

# Versatile air circuit-breakers up to 6300 A for economically-optimised solutions.



New Products Catalogue 2009  
Circuit Breakers IZMX16, IZM26



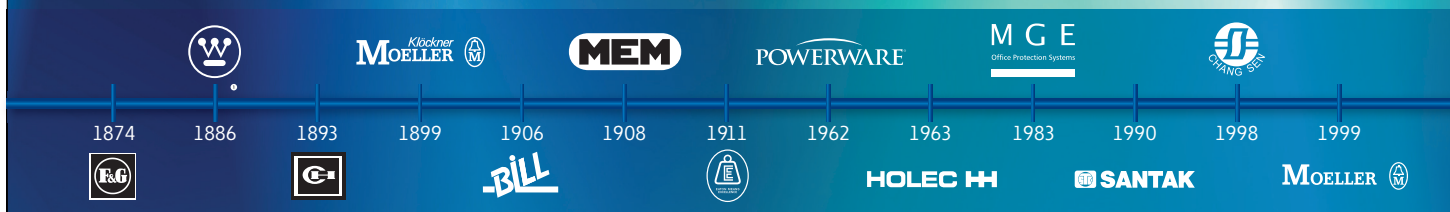
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2

# Technical overview

## Air circuit-breakers IZMX16, switch-disconnectors INX16

Circuit-breakers IZM, switch-disconnectors IN

| IZMX16, INX16                                                                                                                                                                                                                          |                          |                              |                         | Moeller NK1230-1187en         |                         | http://catalog.moeller.net  |                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|------------------------------|-------------------------|-------------------------------|-------------------------|-----------------------------|-------------------------|
| $I_{cu}/I_{cs}$ at $U_e = 440/690$ V AC<br>$I_{cu}$ : Rated ultimate short-circuit breaking capacity at rated operational voltage $U_e$<br>$I_{cs}$ : Rated service short-circuit breaking capacity at rated operational voltage $U_e$ |                          | Basic switching capacity (B) |                         | Normal switching capacity (N) |                         | High switching capacity (H) |                         |
| Circuit-breaker                                                                                                                                                                                                                        | Rated current $I_n$<br>A | 440 V AC                     | 690 V AC                | 440 V AC                      | 690 V AC                | 440 V AC                    | 690 V AC                |
|                                                                                                                                                                                                                                        |                          | $I_{cu} / I_{cs}$<br>kA      | $I_{cu} / I_{cs}$<br>kA | $I_{cu} / I_{cs}$<br>kA       | $I_{cu} / I_{cs}$<br>kA | $I_{cu} / I_{cs}$<br>kA     | $I_{cu} / I_{cs}$<br>kA |
| IZMX16                                                                                                                                                                                                                                 | 630 – 1600               |                              |                         |                               |                         |                             |                         |
|                                                                                                                                                                                                                                        |                          | 42/42                        | 42/42                   | 50/50                         | 42/42                   | 65/50                       | 42/42                   |

|                                                                     |                          |                              |  |                               |  |                             |  |
|---------------------------------------------------------------------|--------------------------|------------------------------|--|-------------------------------|--|-----------------------------|--|
| $I_{cw}$ $t = 1$ s<br>$I_{cw}$ : Rated short-time withstand current |                          | Basic switching capacity (B) |  | Normal switching capacity (N) |  | High switching capacity (H) |  |
| Circuit-breaker, switch-disconnector                                | Rated current $I_n$<br>A | $t = 1$ s                    |  | $t = 1$ s                     |  | $t = 1$ s                   |  |
|                                                                     |                          | $I_{cw}$<br>kA               |  | $I_{cw}$<br>kA                |  | $I_{cw}$<br>kA              |  |
| IZMX16<br>INX16                                                     | 630 – 1600               |                              |  |                               |  |                             |  |
|                                                                     |                          | 42                           |  | 42                            |  | 42                          |  |

|                                                                                                                                                        |                          |                              |  |                               |  |                             |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|------------------------------|--|-------------------------------|--|-----------------------------|--|
| $I_{cm}$ at $U_e = 440/690$ V AC<br>$I_{cm}$ : Rated short-circuit making capacity (maximum prospective peak value) at rated operational voltage $U_e$ |                          | Basic switching capacity (B) |  | Normal switching capacity (N) |  | High switching capacity (H) |  |
| Switch-disconnectors                                                                                                                                   | Rated current $I_n$<br>A | 440/690 V AC                 |  | 440/690 V AC                  |  | 440/690 V AC                |  |
|                                                                                                                                                        |                          | $I_{cm}$<br>kA               |  | $I_{cm}$<br>kA                |  | $I_{cm}$<br>kA              |  |
| INX16                                                                                                                                                  | 630 – 1600               |                              |  |                               |  |                             |  |
|                                                                                                                                                        |                          | 88.2                         |  | 88.2                          |  | 88.2                        |  |

## IZMX16...V...

Selective protection  
DTV  
Digitrip 520 LSI(G)



## IZMX16...U...

Universal protection  
DTU  
Digitrip 520M LSI(G)



|                                                                |                                      |                                      |
|----------------------------------------------------------------|--------------------------------------|--------------------------------------|
| Ampere range                                                   | 200 A – 1600 A                       | 200 A – 1600 A                       |
| RMS sensing                                                    | ●                                    | ●                                    |
| <b>Protection and coordination</b>                             |                                      |                                      |
| General                                                        |                                      |                                      |
| Ordering options                                               | LSI, LSIG                            | LSI, LSIG, LSIA                      |
| Rating plug ( $I_n$ )                                          | ●                                    | ●                                    |
| Overtemperature trip                                           | ●                                    | ●                                    |
| Long delay protection                                          | L                                    |                                      |
| Long delay pickup                                              | 0.5 - 1.0 x ( $I_n$ )                | 0.5 - 1.0 x ( $I_n$ )                |
| Long delay time $t_r$ at 6 x $I_r$                             | 2 - 24 s                             | 2 - 24 s                             |
| Long delay thermal memory                                      | ●                                    | ●                                    |
| Short delay protection                                         | S                                    |                                      |
| Short delay pickup                                             | 200 - 1000 % x ( $I_r$ )             | 200 - 1000 % x ( $I_r$ )             |
| Short delay time $t_{sd}$ at 8 x $I_r$ , $I^2t$ curve          | 100 - 500 ms                         | 100 - 500 ms                         |
| Short delay time, flat curve                                   | 100 - 500 ms                         | 100 - 500 ms                         |
| Short delay time Zone Selective Interlocking ZSI <sup>1)</sup> | ○                                    | ○                                    |
| Instantaneous protection                                       | I                                    |                                      |
| Instantaneous pickup                                           | 200 - 1200 % x ( $I_n$ )             | 200 - 1200 % x ( $I_n$ )             |
| Off position                                                   | ●                                    | ●                                    |
| Making current release                                         | ●                                    | ●                                    |
| Option Earth fault protection                                  | G                                    |                                      |
| Earth fault alarm                                              | –                                    | ○ <sup>1)</sup>                      |
| Earth fault pickup                                             | 25 - 100 % x ( $I_n$ ) <sup>3)</sup> | 25 - 100 % x ( $I_n$ ) <sup>3)</sup> |
| Earth fault delay $t_g$ at 0,625 x $I_n$ , $I^2t$ curve        | 100 - 500 ms                         | 100 - 500 ms                         |
| Earth fault delay, flat curve                                  | 100 - 500 ms                         | 100 - 500 ms                         |
| Earth fault Zone Selective Interlocking ZSI <sup>1)</sup>      | ○                                    | ○                                    |
| Earth fault thermal memory                                     | ●                                    | ●                                    |
| Neutral protection                                             | N                                    | ●                                    |
| <b>System diagnostics</b>                                      |                                      |                                      |
| Status/overload LED                                            | ●                                    | ●                                    |
| Cause of trip LEDs                                             | ●                                    | ●                                    |
| Magnitude of trip information                                  | –                                    | ● <sup>1)</sup>                      |
| Remote Earth fault trip/alarm contacts                         | –                                    | ● <sup>1)</sup>                      |
| Remote high load alarm contact                                 | –                                    | ● <sup>1)</sup>                      |
| <b>System monitoring</b>                                       |                                      |                                      |
| Digital display                                                | –                                    | 4 character LCD                      |
| <b>Field bus communication</b>                                 |                                      |                                      |
|                                                                | –                                    | optional: Modbus, Profibus           |
| <b>Additional features</b>                                     |                                      |                                      |
| Testing method <sup>2)</sup>                                   | Test set                             | Test set                             |
| Arcflash Reduction Maintenance System (ARMS™)                  | –                                    | ○ <sup>1)</sup>                      |

## Notes

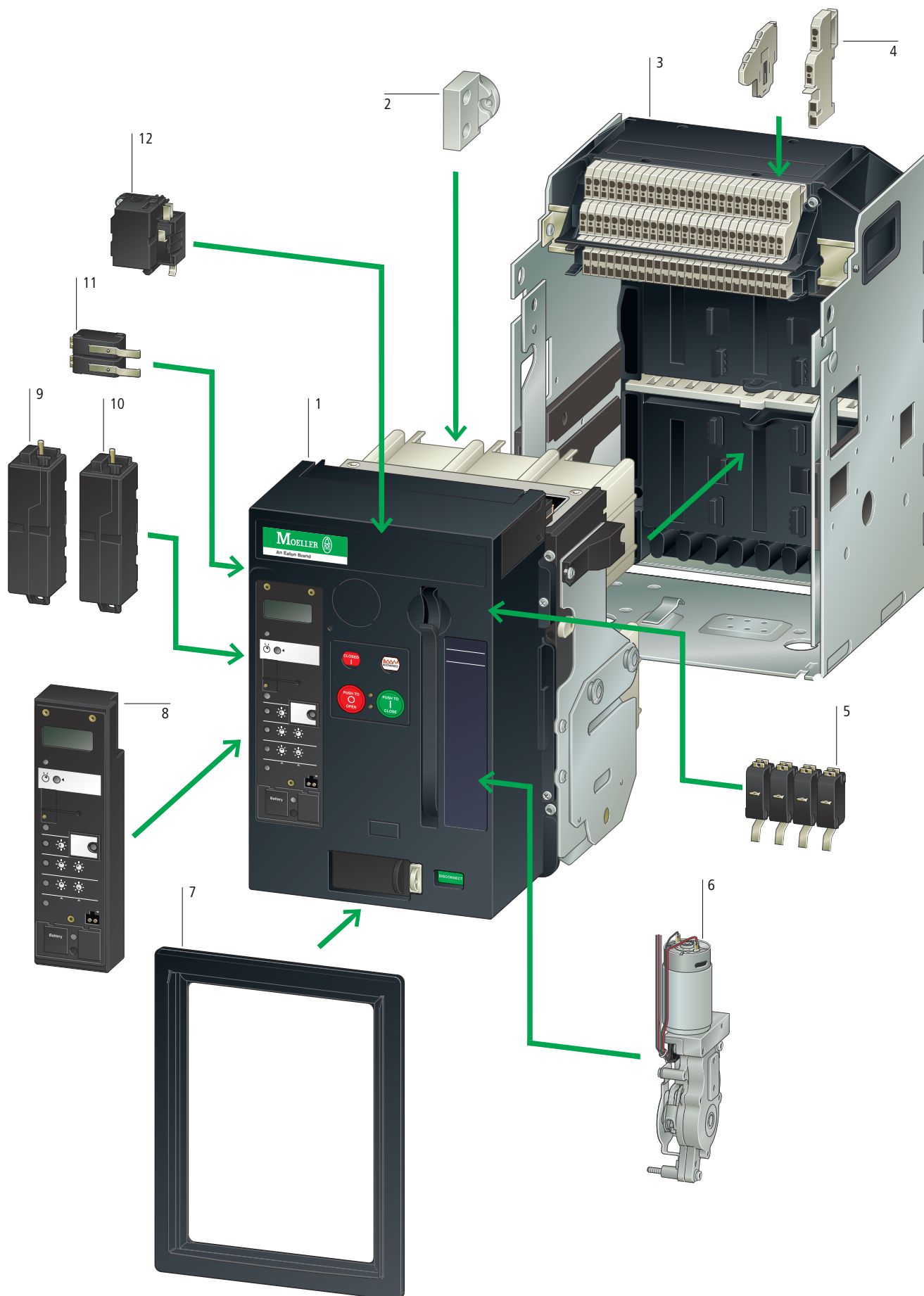
$I_n$  = Rating plug and sensor rating  
 $I_r$  = Long delay pickup setting

<sup>1)</sup> Requires 24 V DC AUX voltage input.

<sup>2)</sup> Test set for secondary injection.

<sup>3)</sup> In combination with ARMS option limited to 1200 A.

● Standard  
○ Optional



|                                                                            |   |                                             |    |
|----------------------------------------------------------------------------|---|---------------------------------------------|----|
| <b>IZMX16 Air circuit-breakers</b>                                         | 1 | <b>Door escutcheon</b>                      | 7  |
| → Page 8                                                                   |   | Part of standard delivery.                  |    |
| <b>Main terminal sets</b>                                                  | 2 | <b>Trip unit (Digitrip 520M)</b>            | 8  |
| Universal type rear connect adapters<br>3- and 4-pole, horizontal/vertical |   | Cannot be ordered separately<br>at present. |    |
| → Page 16                                                                  |   | <b>Shunt trips</b>                          | 9  |
| <b>Cassettes for drawout breakers</b>                                      | 3 | → Page 11                                   |    |
| Cassettes 1600 A                                                           |   | <b>Undervoltage releases</b>                | 10 |
| With an without secondary contacts                                         |   | → Page 12                                   |    |
| → Page 10                                                                  |   | <b>Overcurrent trip switch</b>              | 11 |
| <b>Secondary terminal block kits</b>                                       | 4 | Overcurrent trip switch (OTS), 2 CO         |    |
| With 8, 20 or 30 blocks                                                    |   | → Page 13                                   |    |
| → Page 16                                                                  |   | <b>Spring releases</b>                      | 12 |
| <b>Standard auxiliary contact</b>                                          | 5 | → Page 11                                   |    |
| ON/OFF auxiliary switch                                                    |   |                                             |    |
| → Page 12                                                                  |   |                                             |    |
| <b>Motor operators</b>                                                     | 6 |                                             |    |
| Charge the closing springs electrically<br>for remote or local operation.  |   |                                             |    |
| → Page 10                                                                  |   |                                             |    |

### Type code

|     |     |   |   |   |   |    |   |
|-----|-----|---|---|---|---|----|---|
| IZM | X16 | B | 3 | - | V | 06 | W |
| IN  |     | N | 4 |   | U | 08 | F |
|     |     | H |   |   |   | 10 |   |
|     |     |   |   |   |   | 12 |   |
|     |     |   |   |   |   | 16 |   |

### IZM, IN = Product family

#### Frame size

**X16:** Compact ACB, 630 - 1600 A

#### Switching capacity

**B** = Basic

**N** = Normal

**H** = High

**3-pole**  
**4-pole**

#### Tripping characteristic

**V** = Selective protection

= Digitrip 520 LSI(G)

**U** = Universal protection

= Digitrip 520MC LSI(G)

#### Rated current

**06:** 630 A

**08:** 800 A

**10:** 1000 A

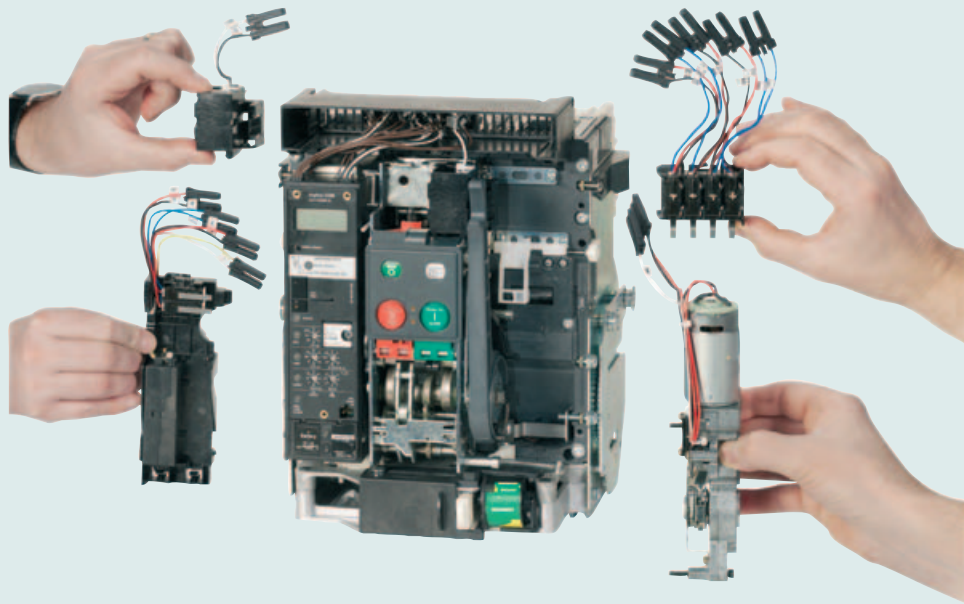
**12:** 1250 A

**16:** 1600 A

#### Model

**W** = Withdrawable

**F** = Fixed



#### IZMX16: The particularly space saving variant

The innovative concept of the IZMX16 makes it possible to install two withdrawable circuit-breakers side by side in a 600 mm wide section. This enables more economical section design and also saves operating space. This additional performance in a minimum of space goes far beyond the standard available worldwide.

#### Applications

The circuit-breakers can be used in four main application areas depending on the type of equipment to be protected:

- System protection
- Motor protection
- Transformer protection
- Generator protection.

These key applications make different demands on the switches, which are met with a range of trip units.

#### Switches with spring release

They are particularly suitable for synchronization tasks.

#### Modular design

The retrofitting of accessories is made considerably easy thanks to the efficient "plug & work" technology. Accessory drawers and snap-fit mechanisms make it possible to fit the latest accessories with virtually no tools. This allows you to respond flexibly to changing requirements within your system.

#### Standard scope of delivery as usual

- With the new IZMX16, you select a basic device that is already fitted with a trip unit.
- The standard mounting is on a horizontal mounting plate or on horizontal traverses in the switching cabinet. The IZMX16 can also be fastened to vertical mounting plates.
- With four-pole devices, the neutral conductor is arranged on the left (front view).
- The neutral conductor can be loaded 100 % like the phase conductors.
- The circuit-breakers are provided with a standard mechanical reclosing lockout. After an overload trip, the fault is usually examined first of all. After the fault is identified and rectified, the mechanical reclosing lockout is reset by pressing the red mechanical trip indicator on the front of the circuit-breaker.
- An "Automatic Reset" can be ordered as an option. This enables the circuit-breaker to be restored to operation immediately at any time after the spring-operated stored energy mechanism is retensioned. In these applications compulsory fault analysis is intentionally avoided.
- The number of secondary terminal blocks depends on the accessories fitted.
- If a cassette is ordered without the basic unit, this can be already fitted with the maximum number of secondary terminal blocks. For greater economy in panel building, the cassette is also offered without secondary terminal blocks so that fitting can be carried out later at the installation or when the required accessories are determined at a later time.
- 2 changeover contacts are provided as standard for status indication ON/OFF.
- A coding mechanism between the basic unit and the cassette prevents impermissible combinations ("Rejection Interlock").

#### Expanded standard scope of delivery for IZMX16

Some order types from the past can no longer be found since the following options are now already part of the standard scope of delivery:

- The door sealing frame is now always included in the scope of delivery. With withdrawable designs this is supplied with the cassette (withdrawable unit).
- Arc chute cover for withdrawable unit. The circuit-breaker can be pulled out to inspect the arc chutes. With fixed units, it is recommended that sufficient space is provided above the circuit-breaker to enable inspection. An additional cover is not required.
- All basic devices that are provided with universal protection (with Digitrip 520M...) now feature a display.
- On each circuit-breaker the integrated Digitrip electronic release is factory fitted with a sealable protective cover.
- If a motor operator is ordered, the "Spring-charged" auxiliary contact is automatically provided.

## IZMX16 circuit-breakers, INX16 switch-disconnectors

<http://catalog.moeller.net>

Moeller NK1230-1187en

## IZMX16, INX16

## Other benefits of the IZMX16

- The design of the universal main terminals offers maximum flexibility. The horizontal terminal can be rotated simply at the installation so that it can also be used as a vertical connection. The cassette of the IZMX16 offers an integrated flange terminal to which the system busbars can be connected directly without using terminal adapters. For this reason, the main terminal adapters for IZMX16 are not part of the standard scope of delivery. Don't forget to order additionally required terminal adapters if needed.
- A switching operations counter can now be used thanks to the separate mounting position, also independently of a motor operator.
- Withdrawable unit operation:  
The unit is actuated with a hand crank supplied as a standard feature which has a secure position in the basic unit. This is now possible also with a standard tool (square drive socket 1/4").

## External 24 V supply

- The standard protection functions of the IZMX16 operate generally independently of an external control voltage supply. The power supply of the electronics unit, for example for overload and short-circuit protection, is implemented via the current transformers integrated in the circuit-breaker.
- The universal release unit with display can be fed with a 24 V DC supply if required so that the display function can also be used without a load. An external 24 V DC power supply is needed if communication functions are required.

## Communication-capability

With their communication-capability, the IZMX16 circuit-breakers open up new possibilities in power distribution. A new P type electronics unit with a colour graphical display is in preparation. It provides all important operational information and passes this on. This increases system transparency and shortens the response times to states such as overcurrent, phase asymmetry and overvoltage.

A rapid intervention in a process can, for example, prevent downtimes and help to schedule maintenance activities and therefore boost plant availability.

A Modbus interface is offered as an alternative in addition to the Profibus interface.

## Greater safety for maintenance personnel with ARMS™

If the IZMX16 is fitted with the newly patented ARMS system (Arcflash Reduction Maintenance System), a non-delayed immediate disconnection is ensured in the event of an arc fault. This disconnection is even faster than that of a non-delayed short-circuit release.

This function can be activated directly on the circuit-breaker or via an external switch, such as when maintenance personnel enter a hazardous area. Other components from the ARCON protective system, in conjunction with the IZMX16, enable arc fault protection in stages.

ARCON on the Internet: [www.moeller.net/arcon](http://www.moeller.net/arcon)

## Selection criteria for IZMX16 circuit-breakers

Fundamental criteria for the selection of circuit-breakers:

- Max. short-circuit current at the point of installation of the circuit-breaker  $I_{k\max}$ : this value determines the short-circuit breaking capacity or the short-circuit current carrying capacity of the circuit-breaker. It is compared to the  $I_{cu}$ ,  $I_{cs}$  and  $I_{cw}$  values of the circuit-breaker and determines essentially its size (see Technical data).
- Rated current  $I_n$  which should flow through the respective branch circuit: This value may not be greater than the maximum switch rated current of the circuit-breaker. The rated current can be adjusted down using additional rating plug modules.
- Ambient temperature of the circuit-breaker:  
This is generally the internal temperature in the control panel. Observe the derating values with increased ambient temperature (see Technical data).
- Circuit-breaker type:  
fixed mounted or withdrawable, 3 or 4-pole.
- Minimum short-circuit current, which flows through the switchgear:  
The trip unit must recognize this value as a short-circuit and react with a trip.
- Protection functions of the circuit-breaker:  
These are determined by the selection of the respective overcurrent release.

## Documentation

Operating manual  
AWB1230-1628de  
AWB1230-1628en

## Characteristics Program CurveSelect

Setting-specific representation of tripping characteristics and competent assessment of their interaction:  
[www.moeller.net/en/support](http://www.moeller.net/en/support)

# Ordering

## Compact air circuit-breakers, 3-pole

IZMX16

Moeller NK1230-1187en

<http://catalog.moeller.net>Switching  
capacity

Rated current

Setting range

Overload  
releases

Short-circuit releases

Delayed

Non-delayed

 $I_{cu}/I_{cs}$   
kA $I_n = I_u$   
A $I_r$   
A $I_{sd} = I_r \times \dots$  $I_i = I_n \times \dots$ 

fixed

Part no.  
Article no.Price  
see price list

withdrawable

Part no.  
Article no.Price  
see price listCassette needs to be  
ordered separately.**Circuit-breaker for selective operation**

Main terminals not included, need to be ordered separately.

42/42

630

315 – 630

2 - 10

2 - 12, OFF

IZMX16B3-V06F  
123346IZMX16B3-V06W  
122851IZMX16B3-V08F  
123347IZMX16B3-V08W  
122918IZMX16B3-V10F  
123348IZMX16B3-V10W  
122920IZMX16B3-V12F  
123349IZMX16B3-V12W  
122922IZMX16B3-V16F  
123350IZMX16B3-V16W  
122924

50/50

630

315 – 630

IZMX16N3-V06F  
123371IZMX16N3-V06W  
123097IZMX16N3-V08F  
123372IZMX16N3-V08W  
123099IZMX16N3-V10F  
123373IZMX16N3-V10W  
123101IZMX16N3-V12F  
123374IZMX16N3-V12W  
123103IZMX16N3-V16F  
123375IZMX16N3-V16W  
123106

65/50

630

315 – 630

IZMX16H3-V06F  
123396IZMX16H3-V06W  
123146IZMX16H3-V08F  
123397IZMX16H3-V08W  
123147IZMX16H3-V10F  
123398IZMX16H3-V10W  
123148IZMX16H3-V12F  
123399IZMX16H3-V12W  
123149IZMX16H3-V16F  
123405IZMX16H3-V16W  
123150**Circuit-breaker with universal protection**

Main terminals not included, need to be ordered separately.

42/42

630

315 – 630

2 - 10

2 - 12, OFF

IZMX16B3-U06F  
123351IZMX16B3-U06W  
122940IZMX16B3-U08F  
123352IZMX16B3-U08W  
122941IZMX16B3-U10F  
123353IZMX16B3-U10W  
122979IZMX16B3-U12F  
123354IZMX16B3-U12W  
122984IZMX16B3-U16F  
123355IZMX16B3-U16W  
123020

50/50

630

315 – 630

IZMX16N3-U06F  
123376IZMX16N3-U06W  
123109IZMX16N3-U08F  
123377IZMX16N3-U08W  
123111IZMX16N3-U10F  
123378IZMX16N3-U10W  
123114IZMX16N3-U12F  
123379IZMX16N3-U12W  
123129IZMX16N3-U16F  
123380IZMX16N3-U16W  
123130

65/50

630

315 – 630

IZMX16H3-U06F  
123411IZMX16H3-U06W  
123151IZMX16H3-U08F  
123417IZMX16H3-U08W  
123152IZMX16H3-U10F  
123423IZMX16H3-U10W  
123153IZMX16H3-U12F  
123429IZMX16H3-U12W  
123154IZMX16H3-U16F  
123435IZMX16H3-U16W  
123155

## Compact air circuit-breakers, 4-pole

http://catalog.moeller.net

Moeller NK1230-1187en

IZMX16

| Switching capacity    | Rated current    | Setting range | Short-circuit releases                                                            |                                                                                   | fixed<br>Part no.<br>Article no. | Price<br>see price list | withdrawable<br>Part no.<br>Article no.  | Price<br>see price list |
|-----------------------|------------------|---------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------|-------------------------|------------------------------------------|-------------------------|
|                       |                  |               | Overload releases                                                                 | Delayed                                                                           |                                  |                         |                                          |                         |
| $I_{cu}/I_{cs}$<br>kA | $I_n = I_u$<br>A | $I_r$<br>A    |                                                                                   | $I_{sd} = I_r \times \dots$                                                       |                                  |                         | Cassette needs to be ordered separately. |                         |
|                       |                  |               |  |  |                                  |                         |                                          |                         |
|                       |                  |               |                                                                                   | $I_i = I_n \times \dots$                                                          |                                  |                         |                                          |                         |
|                       |                  |               |                                                                                   |  |                                  |                         |                                          |                         |

## Circuit-breaker for selective operation

Main terminals not included, need to be ordered separately.

|       |      |            |        |             |                         |                         |
|-------|------|------------|--------|-------------|-------------------------|-------------------------|
| 42/42 | 630  | 315 – 630  | 2 - 10 | 2 - 12, OFF | IZMX16B4-V06F<br>123471 | IZMX16B4-V06W<br>123221 |
|       | 800  | 400 – 800  |        |             | IZMX16B4-V08F<br>123472 | IZMX16B4-V08W<br>123222 |
|       | 1000 | 500 – 1000 |        |             | IZMX16B4-V10F<br>123473 | IZMX16B4-V10W<br>123223 |
|       | 1250 | 625 – 1250 |        |             | IZMX16B4-V12F<br>123474 | IZMX16B4-V12W<br>123224 |
|       | 1600 | 800 – 1600 |        |             | IZMX16B4-V16F<br>123475 | IZMX16B4-V16W<br>123225 |
| 50/50 | 630  | 315 – 630  |        |             | IZMX16N4-V06F<br>123496 | IZMX16N4-V06W<br>123246 |
|       | 800  | 400 – 800  |        |             | IZMX16N4-V08F<br>123497 | IZMX16N4-V08W<br>123247 |
|       | 1000 | 500 – 1000 |        |             | IZMX16N4-V10F<br>123498 | IZMX16N4-V10W<br>123248 |
|       | 1250 | 625 – 1250 |        |             | IZMX16N4-V12F<br>123499 | IZMX16N4-V12W<br>123249 |
|       | 1600 | 800 – 1600 |        |             | IZMX16N4-V16F<br>123500 | IZMX16N4-V16W<br>123250 |
| 65/50 | 630  | 315 – 630  |        |             | IZMX16H4-V06F<br>123531 | IZMX16H4-V06W<br>123271 |
|       | 800  | 400 – 800  |        |             | IZMX16H4-V08F<br>123537 | IZMX16H4-V08W<br>123272 |
|       | 1000 | 500 – 1000 |        |             | IZMX16H4-V10F<br>123543 | IZMX16H4-V10W<br>123273 |
|       | 1250 | 625 – 1250 |        |             | IZMX16H4-V12F<br>123549 | IZMX16H4-V12W<br>123274 |
|       | 1600 | 800 – 1600 |        |             | IZMX16H4-V16F<br>123555 | IZMX16H4-V16W<br>123275 |

## Circuit-breaker with universal protection

Main terminals not included, need to be ordered separately.

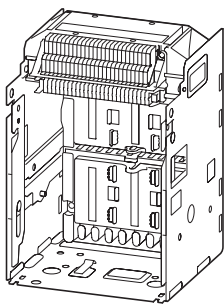
|       |      |            |        |             |                         |                         |
|-------|------|------------|--------|-------------|-------------------------|-------------------------|
| 42/42 | 630  | 315 – 630  | 2 - 10 | 2 - 12, OFF | IZMX16B4-U06F<br>123476 | IZMX16B4-U06W<br>123226 |
|       | 800  | 400 – 800  |        |             | IZMX16B4-U08F<br>123477 | IZMX16B4-U08W<br>123227 |
|       | 1000 | 500 – 1000 |        |             | IZMX16B4-U10F<br>123478 | IZMX16B4-U10W<br>123228 |
|       | 1250 | 625 – 1250 |        |             | IZMX16B4-U12F<br>123479 | IZMX16B4-U12W<br>123229 |
|       | 1600 | 800 – 1600 |        |             | IZMX16B4-U16F<br>123480 | IZMX16B4-U16W<br>123230 |
| 50/50 | 630  | 315 – 630  |        |             | IZMX16N4-U06F<br>123501 | IZMX16N4-U06W<br>123251 |
|       | 800  | 400 – 800  |        |             | IZMX16N4-U08F<br>123502 | IZMX16N4-U08W<br>123252 |
|       | 1000 | 500 – 1000 |        |             | IZMX16N4-U10F<br>123503 | IZMX16N4-U10W<br>123253 |
|       | 1250 | 625 – 1250 |        |             | IZMX16N4-U12F<br>123504 | IZMX16N4-U12W<br>123254 |
|       | 1600 | 800 – 1600 |        |             | IZMX16N4-U16F<br>123505 | IZMX16N4-U16W<br>123255 |
| 65/50 | 630  | 315 – 630  |        |             | IZMX16H4-U06F<br>123561 | IZMX16H4-U06W<br>123276 |
|       | 800  | 400 – 800  |        |             | IZMX16H4-U08F<br>123567 | IZMX16H4-U08W<br>123277 |
|       | 1000 | 500 – 1000 |        |             | IZMX16H4-U10F<br>123573 | IZMX16H4-U10W<br>123278 |
|       | 1250 | 625 – 1250 |        |             | IZMX16H4-U12F<br>123579 | IZMX16H4-U12W<br>123279 |
|       | 1600 | 800 – 1600 |        |             | IZMX16H4-U16F<br>123580 | IZMX16H4-U16W<br>123285 |

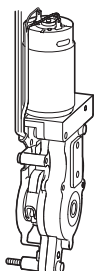
# Ordering Accessories for IZMX16

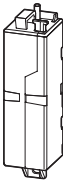
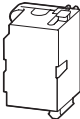
IZMX-CAS..., IZMX-SH..., IZMX-M16...

Moeller NK1230-1187en

<http://catalog.moeller.net>

|                                                                                                                                                      | Rated current<br>$I_n$<br>A | Rated ultimate short-circuit breaking capacity<br>$I_{cu}$<br>kA | No. of poles | For use with                      | Part no.<br>Article no.<br><br>Part no. suffix „+IZM...“<br>Article no. when ordered with basic unit | Price<br>see price list | Notes                                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------------------------------------------------------------|--------------|-----------------------------------|------------------------------------------------------------------------------------------------------|-------------------------|----------------------------------------------------------|
| <b>Withdrawable technique</b>                                                                                                                        |                             |                                                                  |              |                                   |                                                                                                      |                         |                                                          |
| Cassettes<br>Standard equipment: arc hood, cell rejection kit                                                                                        |                             |                                                                  |              |                                   |                                                                                                      |                         |                                                          |
|                                                                     | ≤ 1600                      | ≤ 65                                                             | 3            | IZMX16...3-...W<br>INX16...3-...W | <b>IZMX-CAS163-1600</b><br>101537                                                                    |                         | Without control terminals                                |
|                                                                                                                                                      | ≤ 1600                      | ≤ 65                                                             | 3            | IZMX16...3-...W<br>INX16...3-...W | <b>+IZMX-CAS163-1600</b><br>101536                                                                   |                         | With control terminals according to the ordered options. |
|                                                                                                                                                      | ≤ 1600                      | ≤ 65                                                             | 3            | IZMX16...3-...W<br>INX16...3-...W | <b>IZMX-CAS163-1600-SEC</b><br>123986                                                                |                         | Including complete set of control terminals              |
|                                                                                                                                                      | ≤ 1600                      | ≤ 65                                                             | 4            | IZMX16...4-...W<br>INX16...4-...W | <b>IZMX-CAS164-1600</b><br>101539                                                                    |                         | Without control terminals                                |
|                                                                                                                                                      | ≤ 1600                      | ≤ 65                                                             | 4            | IZMX16...4-...W<br>INX16...4-...W | <b>+IZMX-CAS164-1600</b><br>101538                                                                   |                         | With control terminals according to the ordered options. |
|                                                                                                                                                      | ≤ 1600                      | ≤ 65                                                             | 4            | IZMX16...4-...W<br>INX16...4-...W | <b>IZMX-CAS164-1600-SEC</b><br>124175                                                                |                         | Including complete set of control terminals              |
| Cassette safety shutters<br>Covers the fixed primary contacts of the cassette automatically when the circuit-breaker is not in the CONNECT position. |                             |                                                                  |              |                                   |                                                                                                      |                         |                                                          |
|                                                                                                                                                      | 800 - 1600                  | –                                                                | 3            | (+)IZMX-CAS163...                 | <b>IZMX-SH163</b><br>101542                                                                          |                         | –                                                        |
|                                                                                                                                                      | 800 - 1600                  | –                                                                | 3            | (+)IZMX-CAS163...                 | <b>+IZMX-SH163</b><br>101541                                                                         |                         |                                                          |
|                                                                                                                                                      | 800 - 1600                  | –                                                                | 4            | (+)IZMX-CAS164...                 | <b>IZMX-SH164</b><br>101544                                                                          |                         |                                                          |
|                                                                                                                                                      | 800 - 1600                  | –                                                                | 4            | (+)IZMX-CAS164...                 | <b>+IZMX-SH164</b><br>101543                                                                         |                         |                                                          |

|                                                                                                                                               | Rated control voltage<br>$U_s$<br>V | For use with          | Part no.<br>Article no.<br><br>Part no. suffix „+IZM...“<br>Article no. when ordered with basic unit | Price<br>see price list | Notes                                                                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-----------------------|------------------------------------------------------------------------------------------------------|-------------------------|-----------------------------------------------------------------------------------|
| <b>Motor operators</b>                                                                                                                        |                                     |                       |                                                                                                      |                         |                                                                                   |
| The motor operator charges the closing springs electrically for remote or local operation. A "spring charged" signalling contact is included. |                                     |                       |                                                                                                      |                         |                                                                                   |
|                                                            | 24 DC                               | IZMX16...<br>INX16... | <b>IZMX-M16-24DC</b><br>123594                                                                       |                         | For retrofitting two additional secondary terminal blocks are required. → page 16 |
|                                                                                                                                               | 24 DC                               | IZMX16...<br>INX16... | <b>+IZMX-M16-24DC</b><br>123593                                                                      |                         |                                                                                   |
|                                                                                                                                               | 48 DC                               | IZMX16...<br>INX16... | <b>IZMX-M16-48DC</b><br>123596                                                                       |                         |                                                                                   |
|                                                                                                                                               | 48 DC                               | IZMX16...<br>INX16... | <b>+IZMX-M16-48DC</b><br>123595                                                                      |                         |                                                                                   |
|                                                                                                                                               | 110 - 125 DC                        | IZMX16...<br>INX16... | <b>IZMX-M16-110DC</b><br>123598                                                                      |                         |                                                                                   |
|                                                                                                                                               | 110 - 125 DC                        | IZMX16...<br>INX16... | <b>+IZMX-M16-110DC</b><br>123597                                                                     |                         |                                                                                   |
|                                                                                                                                               | 220 - 250 DC                        | IZMX16...<br>INX16... | <b>IZMX-M16-220DC</b><br>123600                                                                      |                         |                                                                                   |
|                                                                                                                                               | 220 - 250 DC                        | IZMX16...<br>INX16... | <b>+IZMX-M16-220DC</b><br>123599                                                                     |                         |                                                                                   |
|                                                                                                                                               | 110 - 127 AC                        | IZMX16...<br>INX16... | <b>IZMX-M16-110AC</b><br>123602                                                                      |                         |                                                                                   |
|                                                                                                                                               | 110 - 127 AC                        | IZMX16...<br>INX16... | <b>+IZMX-M16-110AC</b><br>123601                                                                     |                         |                                                                                   |
|                                                                                                                                               | 220 - 240 AC                        | IZMX16...<br>INX16... | <b>IZMX-M16-230AC</b><br>123604                                                                      |                         |                                                                                   |
|                                                                                                                                               | 220 - 240 AC                        | IZMX16...<br>INX16... | <b>+IZMX-M16-230AC</b><br>123603                                                                     |                         |                                                                                   |

|                                                                                                              | Rated control voltage<br>$U_s$<br>V | For use with          | Part no.<br>Article no.<br><br>Part no. suffix<br>„+IZM...“<br>Article no. when ordered<br>with basic unit | Price<br>see price list | Notes                                                                           |
|--------------------------------------------------------------------------------------------------------------|-------------------------------------|-----------------------|------------------------------------------------------------------------------------------------------------|-------------------------|---------------------------------------------------------------------------------|
| <b>Operation counters</b>                                                                                    |                                     |                       |                                                                                                            |                         |                                                                                 |
| To record the number of ON-OFF operations, possible without motor.                                           |                                     |                       |                                                                                                            |                         |                                                                                 |
|                                                                                                              | –                                   | IZMX16...<br>INX16... | IZMX-OC16<br>123606                                                                                        |                         | –                                                                               |
|                                                                                                              | –                                   | IZMX16...<br>INX16... | +IZMX-OC16<br>123605                                                                                       |                         | –                                                                               |
| <b>Voltage releases</b>                                                                                      |                                     |                       |                                                                                                            |                         |                                                                                 |
| One spring release can be combined with one shunt trip and one undervoltage release or with two shunt trips. |                                     |                       |                                                                                                            |                         |                                                                                 |
| <b>Shunt trips</b>                                                                                           |                                     |                       |                                                                                                            |                         |                                                                                 |
|                             | 24 DC                               | IZMX16...<br>INX16... | IZMX-ST24DC<br>123608                                                                                      |                         | For retrofitting one additional secondary terminal block is required. ➔ page 16 |
|                                                                                                              | 24 DC                               |                       | +IZMX-ST24DC<br>123607                                                                                     |                         |                                                                                 |
|                                                                                                              | 48 DC                               |                       | IZMX-ST48DC<br>123656                                                                                      |                         |                                                                                 |
|                                                                                                              | 48 DC                               |                       | +IZMX-ST48DC<br>123616                                                                                     |                         |                                                                                 |
|                                                                                                              | 110 - 125 DC<br>110 - 127 AC        |                       | IZMX-ST110AD<br>123728                                                                                     |                         |                                                                                 |
|                                                                                                              | 110 - 125 DC<br>110 - 127 AC        |                       | +IZMX-ST110AD<br>123696                                                                                    |                         |                                                                                 |
|                                                                                                              | 220 - 250 DC<br>208 - 240 AC        |                       | IZMX-ST230AD<br>123730                                                                                     |                         |                                                                                 |
|                                                                                                              | 220 - 250 DC<br>208 - 240 AC        |                       | +IZMX-ST230AD<br>123729                                                                                    |                         |                                                                                 |
| <b>Second shunt trip</b>                                                                                     |                                     |                       |                                                                                                            |                         |                                                                                 |
| Cannot be combined with undervoltage release.                                                                |                                     |                       |                                                                                                            |                         |                                                                                 |
|                           | 24 DC                               | IZMX16...<br>INX16... | +IZMX-ST524DC<br>123731                                                                                    |                         | For retrofitting one additional secondary terminal block is required. ➔ page 16 |
|                                                                                                              | 48 DC                               |                       | +IZMX-ST548DC<br>123732                                                                                    |                         |                                                                                 |
|                                                                                                              | 110 - 125 DC<br>110 - 127 AC        |                       | +IZMX-ST5110AD<br>123733                                                                                   |                         |                                                                                 |
|                                                                                                              | 220 - 250 DC<br>208 - 240 AC        |                       | +IZMX-ST5230AD<br>123734                                                                                   |                         |                                                                                 |
| <b>Spring releases</b>                                                                                       |                                     |                       |                                                                                                            |                         |                                                                                 |
| Without latch check switch.                                                                                  |                                     |                       |                                                                                                            |                         |                                                                                 |
|                           | 24 DC                               | IZMX16...<br>INX16... | IZMX-SR24DC<br>123736                                                                                      |                         | For retrofitting one additional secondary terminal block is required. ➔ page 16 |
|                                                                                                              | 24 DC                               |                       | +IZMX-SR24DC<br>123735                                                                                     |                         |                                                                                 |
|                                                                                                              | 48 DC                               |                       | IZMX-SR48DC<br>123738                                                                                      |                         |                                                                                 |
|                                                                                                              | 48 DC                               |                       | +IZMX-SR48DC<br>123737                                                                                     |                         |                                                                                 |
|                                                                                                              | 110 - 125 DC<br>110 - 127 AC        |                       | IZMX-SR110AD<br>123740                                                                                     |                         |                                                                                 |
|                                                                                                              | 110 - 125 DC<br>110 - 127 AC        |                       | +IZMX-SR110AD<br>123739                                                                                    |                         |                                                                                 |
|                                                                                                              | 220 - 250 DC<br>208 - 240 AC        |                       | IZMX-SR230AD<br>123742                                                                                     |                         |                                                                                 |
|                                                                                                              | 220 - 250 DC<br>208 - 240 AC        |                       | +IZMX-SR230AD<br>123741                                                                                    |                         |                                                                                 |

Rated control  
voltage  
 $U_s$   
V

For use with

Part no.  
Article no.

Price  
see price list

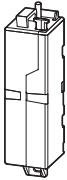
Notes

Part no. suffix  
„+IZM...“  
Article no. when ordered  
with basic unit

### Voltage releases

Undervoltage releases

Cannot be combined with second shunt trip.



24 DC

IZMX16...  
INX16...

IZMX-UVR24DC  
123744

24 DC

+IZMX-UVR24DC  
123743

32 DC

IZMX-UVR32DC  
123746

32 DC

+IZMX-UVR32DC  
123745

48 DC

IZMX-UVR48DC  
123748

48 DC

+IZMX-UVR48DC  
123747

110 - 125 DC

IZMX-UVR110AD  
123801

110 - 127 AC

110 - 125 DC

+IZMX-UVR110AD  
123761

110 - 127 AC

220 - 250 DC

IZMX-UVR220AD  
123873

208 - 240 AC

220 - 250 DC

+IZMX-UVR220AD  
123841

208 - 240 AC

380 - 415 AC

IZMX-UVR400AC  
123875

380 - 415 AC

+IZMX-UVR400AC  
123874

480 AC

IZMX-UVR480AC  
123877

480 AC

+IZMX-UVR480AC  
123876

600 AC

IZMX-UVR600AC  
123879

600 AC

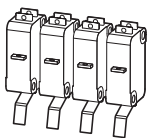
+IZMX-UVR600AC  
123878

For retrofitting one additional  
secondary terminal block is  
required. → page 16

### Auxiliary contacts

Standard auxiliary contacts

2 CO auxiliary contacts already belong to the basic device. Two additional CO are possible.



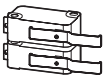
—

IZMX16...  
INX16...

IZMX-AS22  
123881

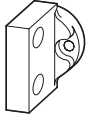
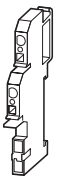
+IZMX-AS22  
123880

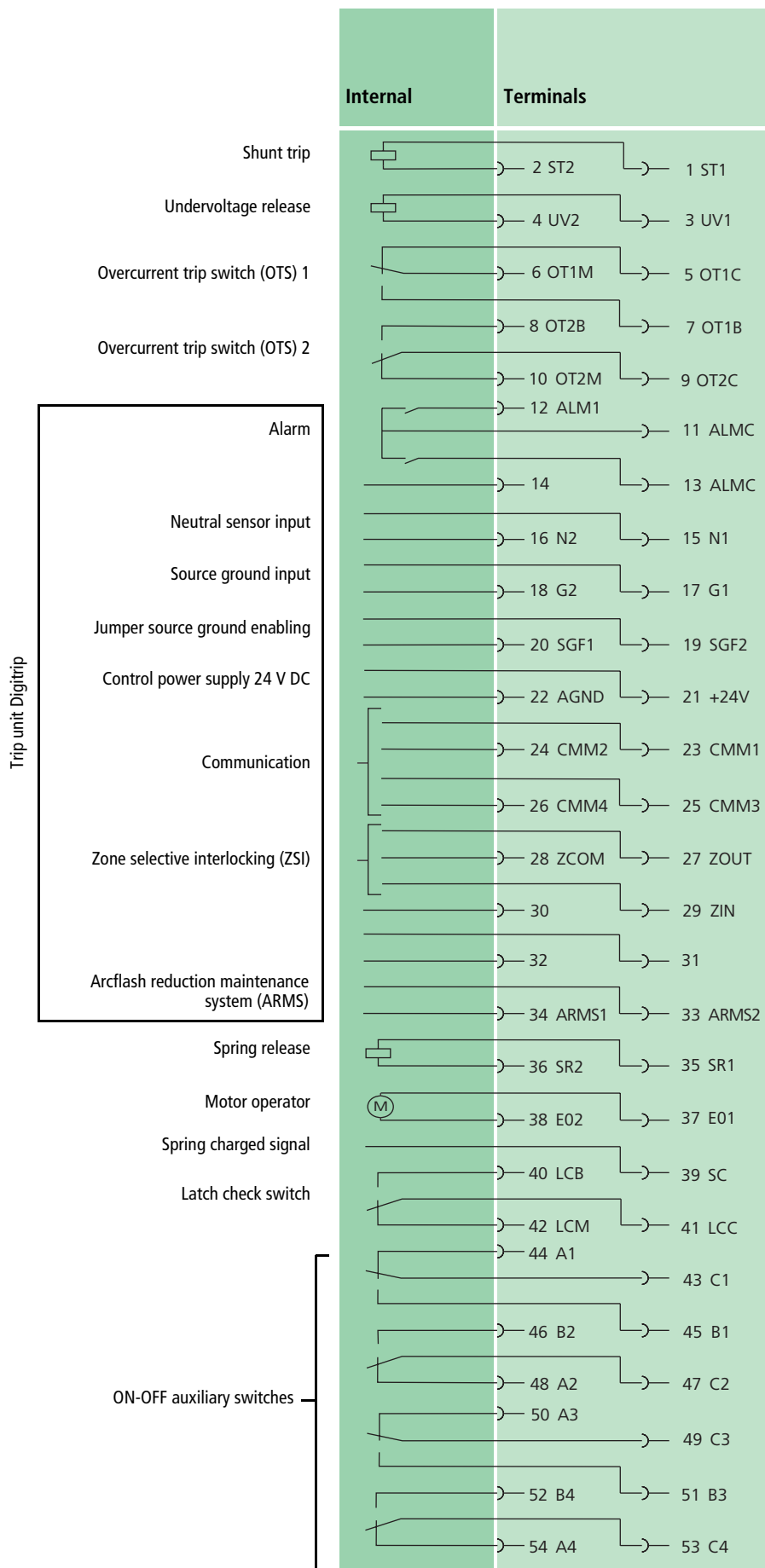
For retrofitting three additional  
secondary terminal blocks are  
required. → page 16

|                                                                                                                                                                                     | Rated control voltage<br>$U_s$<br>V | For use with          | Part no.<br>Article no.<br><br>Part no. suffix „+IZM...“<br>Article no. when ordered with basic unit | Price<br>see price list | Notes                                                                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-----------------------|------------------------------------------------------------------------------------------------------|-------------------------|-------------------------------------------------------------------------------------|
| Trip indication and reset options                                                                                                                                                   |                                     |                       |                                                                                                      |                         |                                                                                     |
| Overcurrent trip switches                                                                                                                                                           |                                     |                       |                                                                                                      |                         |                                                                                     |
| Overcurrent trip switch OTS (bell alarm) with 2 CO contacts.                                                                                                                        |                                     |                       |                                                                                                      |                         |                                                                                     |
|                                                                                                    | —<br>—                              | IZMX16...             | IZMX-OTS<br>123889<br><br>+IZMX-OTS<br>123888                                                        |                         | For retrofitting three additional secondary terminal blocks are required. → page 16 |
|                                                                                                                                                                                     |                                     |                       |                                                                                                      |                         |                                                                                     |
| Remote reset                                                                                                                                                                        |                                     |                       |                                                                                                      |                         |                                                                                     |
| Via an electrical command the trip indicating auxiliary contact and the red pop-out indicator can be reset remotely. Not in combination with Automatic reset.                       |                                     |                       |                                                                                                      |                         |                                                                                     |
|                                                                                                                                                                                     | 24 DC                               | IZMX16...             | IZMX-RR24DC<br>123891                                                                                |                         | —                                                                                   |
|                                                                                                                                                                                     | 24 DC                               |                       | +IZMX-RR24DC<br>123890                                                                               |                         | —                                                                                   |
|                                                                                                                                                                                     | 110 - 127 AC/DC                     |                       | IZMX-RR110AD<br>123893                                                                               |                         | —                                                                                   |
|                                                                                                                                                                                     | 110 - 127 AC/DC                     |                       | +IZMX-RR110AD<br>123892                                                                              |                         | —                                                                                   |
|                                                                                                                                                                                     | 208 - 250 AC/DC                     |                       | IZMX-RR230AD<br>123896                                                                               |                         | —                                                                                   |
|                                                                                                                                                                                     | 208 - 250 AC/DC                     |                       | +IZMX-RR230AD<br>123895                                                                              |                         | —                                                                                   |
| Automatic reset                                                                                                                                                                     |                                     |                       |                                                                                                      |                         |                                                                                     |
| The circuit-breaker is back in the ready-to-close status directly after tripping. The breaker is not equipped with the red pop-out indicator. Not in combination with Remote reset. |                                     |                       |                                                                                                      |                         |                                                                                     |
|                                                                                                                                                                                     | —                                   | IZMX16...             | IZMX-RA<br>123898                                                                                    |                         | —                                                                                   |
|                                                                                                                                                                                     | —                                   |                       | +IZMX-RA<br>123897                                                                                   |                         | —                                                                                   |
| Locking facilities                                                                                                                                                                  |                                     |                       |                                                                                                      |                         |                                                                                     |
| Padlockable pushbutton covers                                                                                                                                                       |                                     |                       |                                                                                                      |                         |                                                                                     |
| Padlockable covers to limit access to the ON and OFF pushbuttons.                                                                                                                   |                                     |                       |                                                                                                      |                         |                                                                                     |
|                                                                                                                                                                                     | —                                   | IZMX16...<br>INX16... | IZMX-PLPC16<br>123946                                                                                |                         | —                                                                                   |
|                                                                                                                                                                                     | —                                   |                       | +IZMX-PLPC16<br>123906                                                                               |                         | —                                                                                   |
| Key locking in OFF                                                                                                                                                                  |                                     |                       |                                                                                                      |                         |                                                                                     |
| The "Safe-OFF" key lock secures the circuit-breaker in the OFF position. This blocking works with remote and local operation.                                                       |                                     |                       |                                                                                                      |                         |                                                                                     |
|                                                                                                                                                                                     | —                                   | IZMX16...<br>INX16... | IZMX-KLP-SO16-CASTELL<br>124184                                                                      |                         | Castell interlocking installation kit, without keylock cylinder                     |
|                                                                                                                                                                                     | —                                   |                       | +IZMX-KLP-SO16-CASTELL<br>124187                                                                     |                         | Castell interlocking installation kit, without keylock cylinder                     |
|                                                                                                                                                                                     | —                                   |                       | IZMX-KLP-SO16-RONIS<br>124186                                                                        |                         | Ronis interlocking installation kit, without keylock cylinder                       |
|                                                                                                                                                                                     | —                                   |                       | +IZMX-KLP-SO16-RONIS<br>124185                                                                       |                         | Ronis interlocking installation kit, without keylock cylinder                       |
|                                                                                                                                                                                     | —                                   |                       | IZMX-KLP-SO16-KIRK<br>126481                                                                         |                         | Kirk interlocking installation kit, without keylock cylinder                        |
|                                                                                                                                                                                     | —                                   |                       | +IZMX-KLP-SO16-KIRK<br>126480                                                                        |                         | Kirk interlocking installation kit, without keylock cylinder                        |
|                                                                                                                                                                                     | —                                   |                       | IZMX-KLP-SO16-CES<br>126479                                                                          |                         | CES interlocking installation kit, without keylock cylinder                         |
|                                                                                                                                                                                     | —                                   |                       | +IZMX-KLP-SO16-CES<br>126478                                                                         |                         | CES interlocking installation kit, without keylock cylinder                         |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Rated control voltage<br>$U_s$<br>V | For use with                        | Part no.<br>Article no.<br><br>Part no. suffix „+IZM...“<br>Article no. when ordered with basic unit | Price<br>see price list | Notes                                                                              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------|------------------------------------------------------------------------------------------------------|-------------------------|------------------------------------------------------------------------------------|
| <b>Trip unit options and accessories</b>                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                     |                                     |                                                                                                      |                         |                                                                                    |
| Add-on functions for the Selective Type (V) equipped with Digitrip 520LSI                                                                                                                                                                                                                                                                                                                                                                                                       |                                     |                                     |                                                                                                      |                         |                                                                                    |
| Earth-fault protection                                                                                                                                                                                                                                                                                                                                                                                                                                                          | –                                   | IZMX16...-V...<br>(Digitrip 520LSI) | <b>+IZMX-DTV-EP</b><br>124016                                                                        |                         | –                                                                                  |
| Zone selective interlocking<br>Zone selective interlocking decreases the time delay in the time-selective coordination.                                                                                                                                                                                                                                                                                                                                                         | –                                   | IZMX16...-V...<br>(Digitrip 520LSI) | <b>+IZMX-DTV-ZSI</b><br>124017                                                                       |                         | –                                                                                  |
| Add-on functions for the Universal Type (U) equipped with Digitrip 520M<br>Standard U-type includes:<br><ul style="list-style-type: none"> <li>• Display</li> <li>• COM-capability</li> <li>• High load alarm with contact</li> </ul> Instead of high load alarm (HLA) one of the two following options Earth-fault protection (EP) or Earth-fault alarm (EA) can be selected.<br>For the open field-bus communication an additional interface module (translator) is required. |                                     |                                     |                                                                                                      |                         |                                                                                    |
| Earth-fault protection<br>With Earth-Fault Protection instead of High Load Alarm.                                                                                                                                                                                                                                                                                                                                                                                               | 24 DC                               | IZMX16...-U...<br>(Digitrip 520M)   | <b>+IZMX-DTU-EP</b><br>124018                                                                        |                         | –                                                                                  |
| Earth-fault alarm<br>With Earth-Fault Alarm instead of High Load Alarm.                                                                                                                                                                                                                                                                                                                                                                                                         | 24 DC                               | IZMX16...-U...<br>(Digitrip 520M)   | <b>+IZMX-DTU-EA</b><br>124019                                                                        |                         | –                                                                                  |
| Arc-flash reduction maintenance system (ARMS) <sup>TM</sup><br>It can improve safety by providing a simple and reliable method to reduce fault clearing time.                                                                                                                                                                                                                                                                                                                   | 24 DC                               | IZMX16...-U...<br>(Digitrip 520M)   | <b>+IZMX-DTU-ARMS</b><br>124020                                                                      |                         | –                                                                                  |
| Zone selective interlocking (ZSI)<br>Decreases the time delay in time-selective coordination.                                                                                                                                                                                                                                                                                                                                                                                   | 24 DC                               | IZMX16...-U...<br>(Digitrip 520M)   | <b>+IZMX-DTU-ZSI</b><br>124021                                                                       |                         | –                                                                                  |
| Trip unit test device<br>Functional test kit (100 - 240 V AC)                                                                                                                                                                                                                                                                                                                                                                                                                   | –                                   | IZMX16...                           | <b>IZMX-TEST</b><br>124169                                                                           |                         | –                                                                                  |
| Communication modules                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                     |                                     |                                                                                                      |                         |                                                                                    |
| Communication interface to MODBUS                                                                                                                                                                                                                                                                                                                                                                                                                                               | –                                   | IZMX16...                           | <b>IZMX-DTUP-MOD</b><br>124023                                                                       |                         | For retrofitting four additional secondary terminal blocks are required. → page 16 |
| Communication interface to PROFIBUS                                                                                                                                                                                                                                                                                                                                                                                                                                             | –                                   | IZMX16...                           | <b>IZMX-DTUP-DP</b><br>124024                                                                        |                         |                                                                                    |

|                                                                                                                                                                                                                                                                                                                                                                                                                           | Rated current<br>$I_n$<br>A | For use with                          | Part no.<br>Article no.<br><br>Part no. suffix „+IZM...“<br>Article no. when ordered<br>with basic unit | Price<br>see price list | Notes                                                                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|---------------------------------------|---------------------------------------------------------------------------------------------------------|-------------------------|-----------------------------------------------------------------------------------|
| <b>Trip unit options and accessories</b><br>Rating plugs<br>By changing this module the rated current is reduced, e.g. as an adaptation to changed conditions in the application.<br>The rating of the rating plug always has to be less than or equal to the rated current of the circuit breaker. The rating plug is interchangeable for circuit-breakers in the respective range without changing the current sensors. |                             |                                       |                                                                                                         |                         |                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                           | 200                         | $I_u \leq 800$ A                      | IZMX-RP16A-200<br>124027                                                                                |                         |                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                           | 200                         | $I_u \leq 800$ A                      | +IZMX-RP16-200<br>124026                                                                                |                         |                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                           | 250                         | $I_u \leq 800$ A                      | IZMX-RP16A-250<br>124029                                                                                |                         |                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                           | 250                         | $I_u \leq 800$ A                      | +IZMX-RP16-250<br>124028                                                                                |                         |                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                           | 300                         | $I_u \leq 800$ A                      | IZMX-RP16A-300<br>124031                                                                                |                         |                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                           | 300                         | $I_u \leq 800$ A                      | +IZMX-RP16-300<br>124030                                                                                |                         |                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                           | 400                         | $I_u \leq 800$ A                      | IZMX-RP16A-400<br>124033                                                                                |                         |                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                           | 400                         | $1000 \text{ A} \leq I_u \leq 1250$ A | IZMX-RP16B-400<br>124034                                                                                |                         |                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                           | 400                         | $I_u \leq 1250$ A                     | +IZMX-RP16-400<br>124032                                                                                |                         |                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                           | 500                         | $I_u \leq 800$ A                      | IZMX-RP16A-500<br>124036                                                                                |                         |                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                           | 500                         | $1000 \text{ A} \leq I_u \leq 1250$ A | IZMX-RP16B-500<br>124037                                                                                |                         |                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                           | 500                         | $I_u \leq 1250$ A                     | +IZMX-RP16-500<br>124035                                                                                |                         |                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                           | 630                         | $I_u \leq 800$ A                      | IZMX-RP16A-630<br>124039                                                                                |                         |                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                           | 630                         | $1000 \text{ A} \leq I_u \leq 1250$ A | IZMX-RP16B-630<br>124040                                                                                |                         |                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                           | 630                         | $800 \text{ A} \leq I_u \leq 1250$ A  | +IZMX-RP16-630<br>124038                                                                                |                         |                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                           | 800                         | $I_u \leq 800$ A                      | IZMX-RP16A-800<br>124042                                                                                |                         |                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                           | 800                         | $1000 \text{ A} \leq I_u \leq 1250$ A | IZMX-RP16B-800<br>124043                                                                                |                         |                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                           | 800                         | $I_u = 1600$ A                        | IZMX-RP16C-800<br>124051                                                                                |                         |                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                           | 800                         | $1000 \text{ A} \leq I_u \leq 1600$ A | +IZMX-RP16-800<br>124041                                                                                |                         |                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                           | 1000                        | $1000 \text{ A} \leq I_u \leq 1250$ A | IZMX-RP16B-1000<br>124131                                                                               |                         |                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                           | 1000                        | $I_u = 1600$ A                        | IZMX-RP16C-1000<br>124156                                                                               |                         |                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                           | 1000                        | $1250 \text{ A} \leq I_u \leq 1600$ A | +IZMX-RP16-1000<br>124091                                                                               |                         |                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                           | 1250                        | $I_u \leq 1250$ A                     | IZMX-RP16B-1250<br>124158                                                                               |                         |                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                           | 1250                        | $I_u = 1600$ A                        | IZMX-RP16C-1250<br>124159                                                                               |                         |                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                           | 1250                        | $I_u = 1600$ A                        | +IZMX-RP16-1250<br>124157                                                                               |                         |                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                           | 1600                        | $I_u = 1600$ A                        | IZMX-RP16C-1600<br>124160                                                                               |                         |                                                                                   |
| <b>Neutral current sensor</b><br>External current sensor for neutral (N conductor). To allow ground fault applications with a 3-pole breaker in a 4-wire system.                                                                                                                                                                                                                                                          |                             |                                       |                                                                                                         |                         |                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                           | –                           | IZMX16...                             | IZMX-CT16-N<br>124188                                                                                   |                         | For retrofitting one additional secondary terminal block is required<br>→ page 16 |

|                                                                                                                                                                                                                 |                                                                   | Rated current<br><br>$I_n$<br>A | No. of<br>poles | For use with                      | Part no.<br>Article no.            | Price<br>see price list |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|---------------------------------|-----------------|-----------------------------------|------------------------------------|-------------------------|
| <b>Main terminal sets</b>                                                                                                                                                                                       |                                                                   |                                 |                 |                                   |                                    |                         |
| Standard basic device and cassette come without terminal adapters.<br>The universal adapters can be turned by 90° to connect horizontally or vertically.<br>One set includes the upper and the lower terminals. |                                                                   |                                 |                 |                                   |                                    |                         |
|                                                                                                                                | Universal type rear connect<br>adapters for fixed breaker         | 800 - 1600                      | 3               | IZMX16...3-...F<br>INX16...3-...F | <b>IZMX-THV163H-F</b><br>124180    |                         |
|                                                                                                                                                                                                                 |                                                                   | 800 - 1600                      | 4               | IZMX16...4-...F<br>INX16...4-...F | <b>IZMX-THV164H-F</b><br>124182    |                         |
|                                                                                                                                                                                                                 | Universal type rear connect<br>adapters for drawout breaker       | 800 - 1600                      | 3               | IZMX16...3-...W<br>INX16...3-...W | <b>IZMX-THV163H-W</b><br>124176    |                         |
|                                                                                                                                                                                                                 |                                                                   | 800 - 1600                      | 4               | IZMX16...4-...W<br>INX16...4-...W | <b>IZMX-THV164H-W</b><br>124178    |                         |
| <b>Miscellaneous accessories</b>                                                                                                                                                                                |                                                                   |                                 |                 |                                   |                                    |                         |
| Secondary terminal block kit for fixed type                                                                                                                                                                     |                                                                   |                                 |                 |                                   |                                    |                         |
|                                                                                                                                | Secondary terminal kit, 8 blocks                                  | —                               | —               | IZMX16...F<br>INX16...F           | <b>IZMX-SEC16-TB8-F</b><br>124166  |                         |
|                                                                                                                                                                                                                 | Secondary terminal kit, 20 blocks                                 | —                               | —               | IZMX16...F<br>INX16...F           | <b>IZMX-SEC16-TB20-F</b><br>124167 |                         |
|                                                                                                                                                                                                                 | Secondary terminal kit, 30 blocks                                 | —                               | —               | IZMX16...F<br>INX16...F           | <b>IZMX-SEC16-TB30-F</b><br>124168 |                         |
| Secondary terminal block kit for drawout type                                                                                                                                                                   |                                                                   |                                 |                 |                                   |                                    |                         |
|                                                                                                                               | Secondary terminal kit, 8 blocks                                  | —                               | —               | IZMX16...W<br>INX16...W           | <b>IZMX-SEC16-TB8-W</b><br>124162  |                         |
|                                                                                                                                                                                                                 | Secondary terminal kit, 20 blocks                                 | —                               | —               | IZMX16...W<br>INX16...W           | <b>IZMX-SEC16-TB20-W</b><br>124163 |                         |
|                                                                                                                                                                                                                 | Secondary terminal kit, 30 blocks                                 | —                               | —               | IZMX16...W<br>INX16...W           | <b>IZMX-SEC16-TB30-W</b><br>124165 |                         |
| Protection cover                                                                                                                                                                                                |                                                                   |                                 |                 |                                   |                                    |                         |
|                                                                                                                                                                                                                 | To provide a higher degree of<br>protection.                      | —                               | —               | IZMX16...<br>INX16...             | <b>IZMX-DC16</b><br>124171         |                         |
| Door cut-out cover                                                                                                                                                                                              |                                                                   |                                 |                 |                                   |                                    |                         |
|                                                                                                                                                                                                                 | Covers door cavity for future<br>breaker compartments.            | —                               | —               | IZMX16...<br>INX16...             | <b>IZMX-BC16</b><br>124172         |                         |
| Cassette rejection bracket kit                                                                                                                                                                                  |                                                                   |                                 |                 |                                   |                                    |                         |
|                                                                                                                                                                                                                 | ACB cell rejection bracket kit<br>(cassette mounting, spare part) | —                               | —               | IZMX16...W<br>INX16...W           | <b>IZMX-CRB16</b><br>124173        |                         |
| Levering-in tool                                                                                                                                                                                                |                                                                   |                                 |                 |                                   |                                    |                         |
|                                                                                                                                                                                                                 | Levering in-tool to rack in breaker<br>(spare part)               | —                               | —               | IZMX16...W<br>INX16...W           | <b>IZMX-LT16</b><br>124174         |                         |

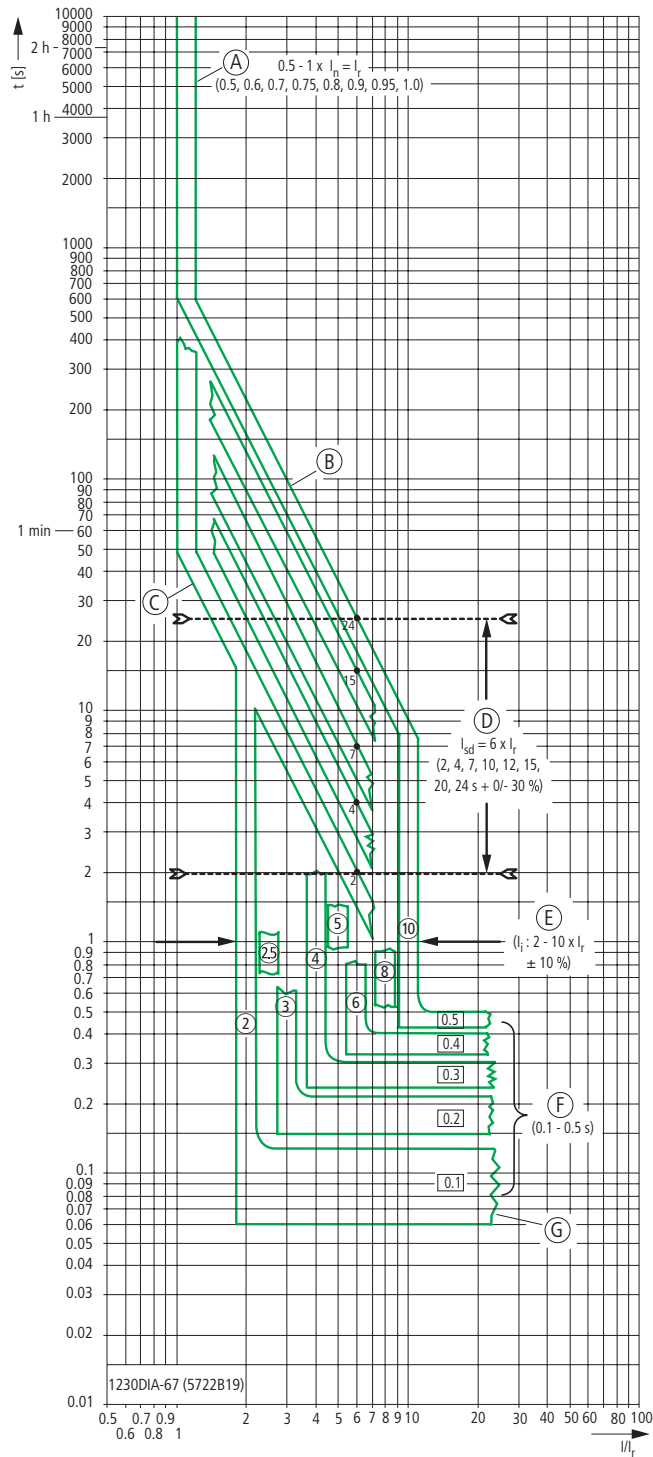


### IZMX16...V(U)... Characteristic curves for selective and universal protection

Overload protection (L) and short-time delayed short-circuit protection (S)

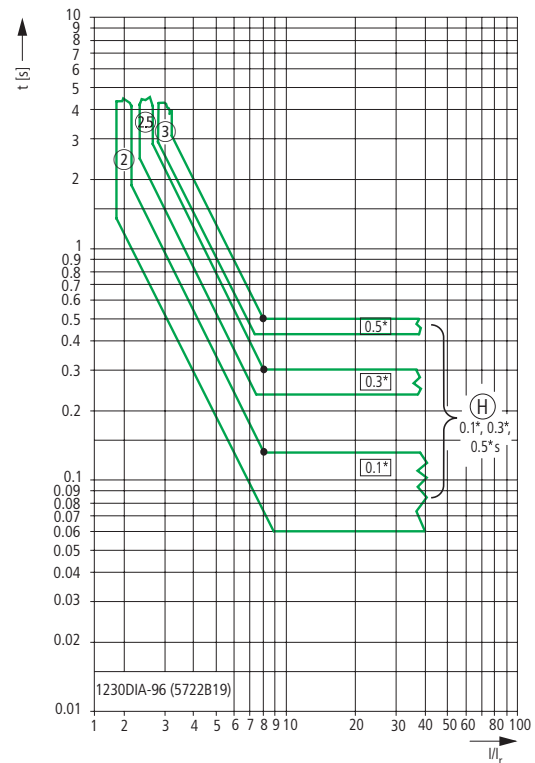
See notes 1 to 7.

L-Protection: I<sup>2</sup>t curve and S-Protection: flat curve



- A Long Delay setting
- B Maximum total clearing time
- C Minimum total clearing time
- D Available Long Delay time
- E Available Short Delay settings
- F Available Flat response Short Delay time
- G Application determines end of curve.
- H Available I<sup>2</sup>t Short Delay Time response
- I Available adjustable Instantaneous setting
- J High Instantaneous
- K Available Earth Fault (Ground) setting
- L Available Flat response Earth Fault (Ground) Time
- M Flat shape for Earth Fault (Ground) Time
- N I<sup>2</sup>t slope for Earth Fault (Ground) Time
- O Available I<sup>2</sup>t response Earth Fault (Ground) Time

### S-Protection: I<sup>2</sup>t curve

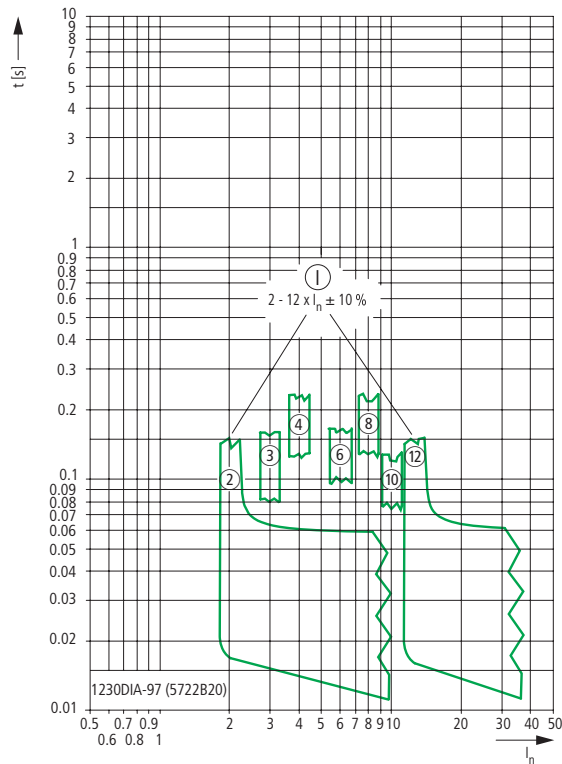


### IZMX16...V(U)... Characteristic curves for selective and universal protection

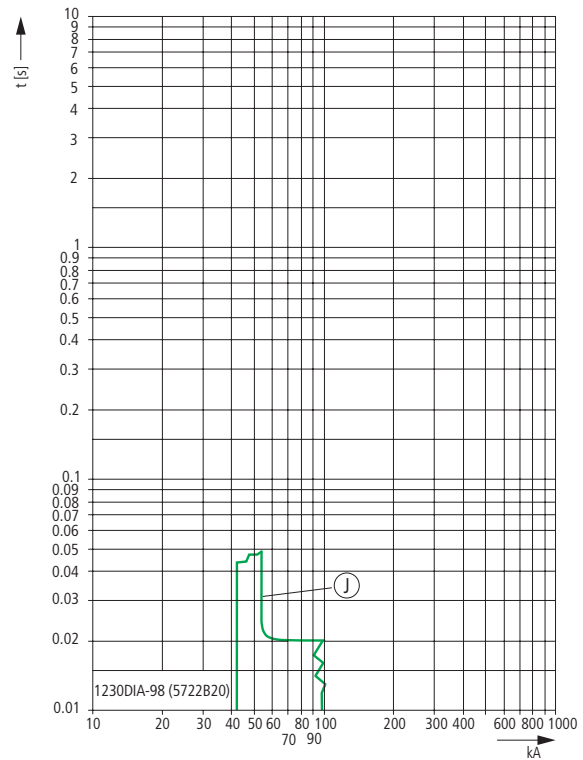
Instantaneous short-circuit protection (I)

See notes 2, 6, 8, 9, 10, 11.

I-Protection: Adjustable



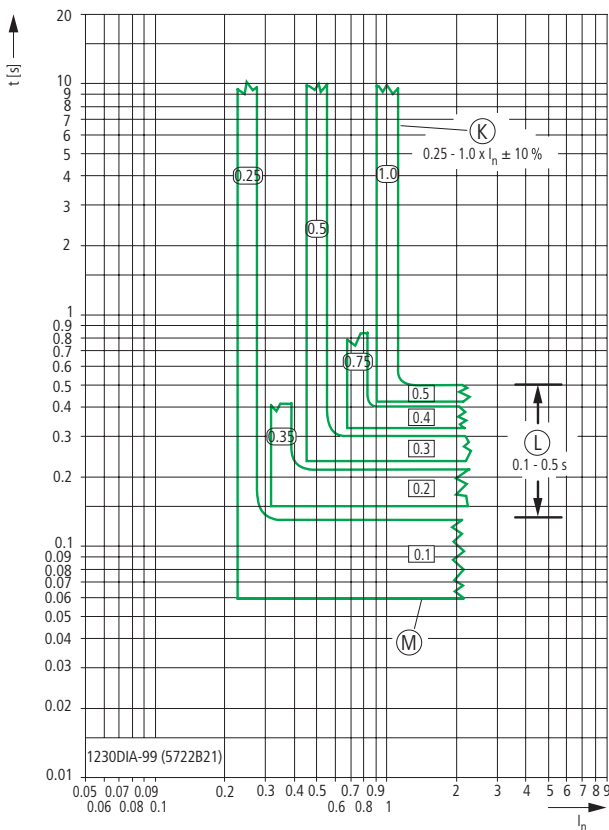
I-Protection: Instantaneous trip at high fault currents



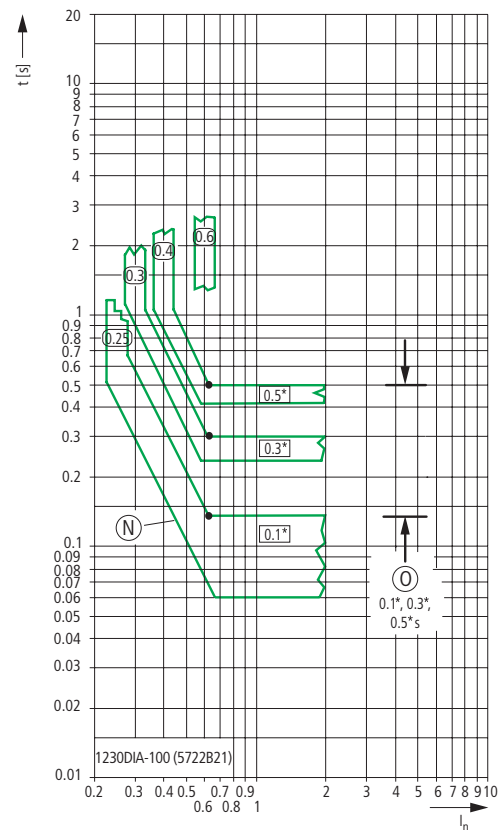
### IZMX16...V(U)... Option ground fault protection +IZMX-DTV(U)-EP

See notes 2, 6, 12, 13, 14, 15, 16.

G: Ground fault protection, flat curve



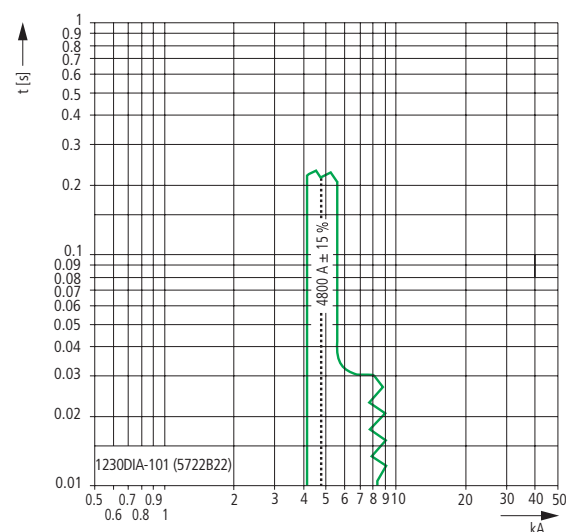
G: Ground fault protection, I²t curve



**IZMX16...U... Option maintenance mode +IZMX-DTU-ARMS**

See notes 2, 6, 11, 17, 18, 19, 20.

Arcflash Reduction Maintenance System (ARMS™)



- 1 There is a memory effect that can act to shorten the Long Delay. The memory effect comes into play if a current above the Long Delay pickup value exists for a time and then is cleared by the tripping of a downstream device or the circuit-breaker itself. A subsequent overload will cause the circuit-breaker to trip in shorter time than normal. The amount of time delay reduction is inverse to the amount of time that has elapsed since the previous overload. Approximately five minutes is required between overloads to completely reset memory.
- 2 The end of the curve is determined by the application and the interruption rating of the circuit-breaker.
- 3 The Long Delay pickup point (indicated by rapid flashing of "Unit Status" LED on the trip unit) occurs at 110 % of the  $I_r$  current, with a  $\pm 10$  % tolerance. The Short Delay settings  $I_{sd}$  have conventional 100 %  $\pm 10$  % as their pickup point.
- 4 With Zone Selective Interlocking (ZSI) on Short Delay utilized and no restraining signal, the minimum Short Time band (0.10 s) applies regardless of the Short Time setting  $t_{sd}$ .
- 5 Breakpoint back to Flat curve response indicated by dots occurs at  $8 \times I_r$  for upper line of  $I^2t$  curve.
- 6 Total clearing times shown include the response times of the trip unit, the breaker opening and the interruption of the current.
- 7 Curve applies from  $-20^\circ\text{C}$  to  $+55^\circ\text{C}$  ambient. Temperatures above  $+85^\circ\text{C}$  cause automatic trip indicated by orange LED. Breaker must be applied according to derating values in the technical data table.
- 8 The Instantaneous settings have conventional 100 %  $\pm 10$  % as the pickup points.
- 9 One additional OFF setting to disable the Instantaneous is available for customer selection.
- 10 All models of the trip unit have a High Instantaneous trip feature. This element is always active even when the customer Instantaneous adjustment is set to the OFF position. The High Instantaneous will initiate a trip at a current peak of 90 kA. It will indicate by flashing the red "INST" LED.
- 11 These curves are comprehensive for all IZMX16 breakers. The total clearing times shown are conservative and consider the maximum response times of the trip unit, the circuit-breaker opening and the interruption of the current under factors that contribute to worst case conditions, such as: maximum rated voltages, single phase interruption, and minimum power factor. Faster clearing times are possible depending on the specific system conditions and the type of circuit-breaker applied.
- 12 The Earth Fault (Ground) settings have conventional 100 %  $\pm 10$  % as the pickup points.
- 13 Except as noted, tolerances on current levels are  $\pm 10$  % of values shown in chart.
- 14 The Earth Fault (Ground) pickup in combination with the ARMS™ function is limited to 1200 A setting.
- 15 With Zone Selective Interlocking (ZSI) on Earth Fault (Ground) utilized and no restraining signal, the minimum time band (Flat) applies regardless of setting.
- 16 Transition point from  $I^2t$  back to Flat curve response indicated by dot occurs at  $0.625 \times I_n$  for upper boundary of  $I^2t$  curve.
- 17 The Arcflash Maintenance Mode (ARMS™) feature must be turned ON via switch or communications for these curves to apply. A blue LED verifies Maintenance Mode setting is active.
- 18 Clearing times are shown with auxiliary power present.
- 19 A Maintenance Mode (ARMS™) Trip is signalled via the "INST" LED.
- 20 Tolerance is  $\pm 15$  %.



| IZMX16...                                                             |                                                                        |            |    | Moeller NK1230-1187en                                                              |                 | http://catalog.moeller.net |  |
|-----------------------------------------------------------------------|------------------------------------------------------------------------|------------|----|------------------------------------------------------------------------------------|-----------------|----------------------------|--|
|                                                                       |                                                                        |            |    | IZMX16B...06...                                                                    | IZMX16B...08... | IZMX16B...10...            |  |
| General                                                               |                                                                        |            |    |                                                                                    |                 |                            |  |
| Standards                                                             |                                                                        |            |    | IEC/EN 60947                                                                       |                 |                            |  |
| Ambient temperature                                                   | Storage                                                                |            | °C | -40 - +70 (device with LCD-display -20 - +70)                                      |                 |                            |  |
|                                                                       | Operating (open)                                                       |            | °C | -25 - +70 (device with LCD-display -20 - +70)                                      |                 |                            |  |
| Mounting position                                                     |                                                                        |            |    |  |                 |                            |  |
| Utilization category                                                  |                                                                        |            |    | B                                                                                  |                 |                            |  |
| Protection type                                                       |                                                                        |            |    | IP20, IP54 with protective cover                                                   |                 |                            |  |
| Direction of incoming supply                                          |                                                                        |            |    | as required                                                                        |                 |                            |  |
| Main conducting paths                                                 |                                                                        |            |    |                                                                                    |                 |                            |  |
| Rated current = rated uninterrupted current                           | $I_n = I_u$                                                            | A          |    | 630                                                                                | 800             | 1000                       |  |
| Rated uninterrupted current at 50 °C <sup>1)</sup>                    | $I_u$                                                                  | A          |    | 599                                                                                | 760             | 950                        |  |
| Rated uninterrupted current at 60 °C <sup>1)</sup>                    | $I_u$                                                                  | A          |    | 567                                                                                | 720             | 900                        |  |
| Rated uninterrupted current at 70 °C <sup>1)</sup>                    | $I_u$                                                                  | A          |    | 504                                                                                | 640             | 800                        |  |
| Rated impulse withstand voltage                                       | $U_{imp}$                                                              | V AC       |    | 12000                                                                              | 12000           | 12000                      |  |
| Rated operational voltage                                             | $U_e$                                                                  | V AC       |    | 690                                                                                | 690             | 690                        |  |
| Use in IT electrical power networks up to $U = 440$ V                 | $I_{IT}$                                                               | kA         |    | 21.5                                                                               | 21.5            | 21.5                       |  |
| Use in IT electrical power networks up to $U = 690$ V                 | $I_{IT}$                                                               | kA         |    | –                                                                                  | –               | –                          |  |
| Overvoltage category/pollution degree                                 |                                                                        |            |    | III/3                                                                              | III/3           | III/3                      |  |
| Rated insulation voltage                                              | $U_i$                                                                  | V          |    | 1000                                                                               | 1000            | 1000                       |  |
| Switching capacity                                                    |                                                                        |            |    |                                                                                    |                 |                            |  |
| Rated short-circuit making capacity                                   | up to 440 V 50/60 Hz                                                   | $I_{cm}$   | kA | 88.2                                                                               | 88.2            | 88.2                       |  |
|                                                                       | up to 690 V 50/60 Hz                                                   | $I_{cm}$   | kA | 88.2                                                                               | 88.2            | 88.2                       |  |
| Rated short-time withstand current 50/60 Hz                           | t = 1 s                                                                | $I_{cw}$   | kA | 42                                                                                 | 42              | 42                         |  |
|                                                                       | t = 3 s                                                                | $I_{cw}$   | kA | –                                                                                  | –               | –                          |  |
| Rated short-circuit breaking capacity $I_{cn}$                        |                                                                        |            |    |                                                                                    |                 |                            |  |
| IEC/EN 60947 operating sequence $I_{cu}$ O-t-CO                       | up to 240 V 50/60 Hz                                                   | $I_{cu}$   | kA | 42                                                                                 | 42              | 42                         |  |
|                                                                       | up to 440 V 50/60 Hz                                                   | $I_{cu}$   | kA | 42                                                                                 | 42              | 42                         |  |
|                                                                       | up to 690 V 50/60 Hz                                                   | $I_{cu}$   | kA | 42                                                                                 | 42              | 42                         |  |
|                                                                       | up to 1100 V 50/60 Hz                                                  | $I_{cu}$   | kA | –                                                                                  | –               | –                          |  |
| IEC/EN 60947 operating sequence $I_{cs}$ O-t-CO-t-CO                  | up to 240 V 50/60 Hz                                                   | $I_{cs}$   | kA | 42                                                                                 | 42              | 42                         |  |
|                                                                       | up to 440 V 50/60 Hz                                                   | $I_{cs}$   | kA | 42                                                                                 | 42              | 42                         |  |
|                                                                       | up to 690 V 50/60 Hz                                                   | $I_{cs}$   | kA | 42                                                                                 | 42              | 42                         |  |
|                                                                       | up to 1100 V 50/60 Hz                                                  | $I_{cs}$   | kA | –                                                                                  | –               | –                          |  |
| Operating delays                                                      | Total opening delay                                                    |            | ms | 20                                                                                 | 20              | 20                         |  |
|                                                                       | Closing delay electrical (via closing release)                         |            | ms | 25                                                                                 | 25              | 25                         |  |
|                                                                       | Closing delay                                                          |            | ms | 30                                                                                 | 30              | 30                         |  |
|                                                                       | Opening delay electrical (via shunt release / undervoltage release)    |            | ms | 25/50                                                                              | 25/50           | 25/50                      |  |
|                                                                       | Opening delay via trip electronics (non-delayed short-circuit release) |            | ms | 25                                                                                 | 25              | 25                         |  |
| Lifespan                                                              | mechanical, without maintenance                                        | Operations |    | 12500                                                                              | 12500           | 12500                      |  |
|                                                                       | mechanical, with maintenance                                           | Operations |    | 20000                                                                              | 20000           | 20000                      |  |
|                                                                       | electrical, without maintenance                                        | Operations |    | 10000                                                                              | 10000           | 10000                      |  |
|                                                                       | electrical, with maintenance                                           | Operations |    | 10000                                                                              | 10000           | 10000                      |  |
| Maximum operating frequency                                           |                                                                        |            |    | Operations/h                                                                       |                 |                            |  |
| Heat dissipation at rated current $I_n$ with 3-phase symmetrical load | Fixed mounting                                                         |            | W  | 36                                                                                 | 59              | 92                         |  |
|                                                                       | Withdrawable units                                                     |            | W  | 50                                                                                 | 80              | 125                        |  |
| Weight                                                                |                                                                        |            |    |                                                                                    |                 |                            |  |
| Fixed mounting                                                        | 3-pole                                                                 |            | kg | 15.23                                                                              | 15.23           | 15.23                      |  |
|                                                                       | 4-pole                                                                 |            | kg | 20.14                                                                              | 20.14           | 20.14                      |  |
| Withdrawable units                                                    | 3-pole                                                                 |            | kg | 38.65                                                                              | 38.65           | 38.65                      |  |
|                                                                       | 4-pole                                                                 |            | kg | 47.17                                                                              | 47.17           | 47.17                      |  |

Notes

<sup>1)</sup> Permissible continuous current for circuit-breakers operating in switchboards at various internal ambient temperatures. The switchboard's internal ambient temperature should be estimated using the calculation methods of IEC regulation.

| http://catalog.moeller.net                                                          |                 | Moeller NK1230-1187en |                 | IZMX16...       |                 |                 |
|-------------------------------------------------------------------------------------|-----------------|-----------------------|-----------------|-----------------|-----------------|-----------------|
| IZMX16B...12...                                                                     | IZMX16B...16... | IZMX16N...06...       | IZMX16N...08... | IZMX16N...10... | IZMX16N...12... | IZMX16N...16... |
|                                                                                     |                 |                       |                 |                 |                 |                 |
| IEC/EN 60947                                                                        |                 |                       |                 |                 |                 |                 |
| -40 - +70 (device with LCD-display -20 - +70)                                       |                 |                       |                 |                 |                 |                 |
| -25 - +70 (device with LCD-display -20 - +70)                                       |                 |                       |                 |                 |                 |                 |
|  |                 |                       |                 |                 |                 |                 |
| B                                                                                   |                 |                       |                 |                 |                 |                 |
| IP20, IP54 with protective cover                                                    |                 |                       |                 |                 |                 |                 |
| as required                                                                         |                 |                       |                 |                 |                 |                 |
| 1250                                                                                | 1600            | 630                   | 800             | 1000            | 1250            | 1600            |
| 1188                                                                                | 1520            | 599                   | 760             | 950             | 1188            | 1520            |
| 1125                                                                                | 1440            | 567                   | 720             | 900             | 1125            | 1440            |
| 1000                                                                                | 1280            | 504                   | 640             | 800             | 1000            | 1280            |
| 12000                                                                               | 12000           | 12000                 | 12000           | 12000           | 12000           | 12000           |
| 690                                                                                 | 690             | 690                   | 690             | 690             | 690             | 690             |
| 21.5                                                                                | 21.5            | 21.5                  | 21.5            | 21.5            | 21.5            | 21.5            |
| –                                                                                   | –               | –                     | –               | –               | –               | –               |
| III/3                                                                               | III/3           | III/3                 | III/3           | III/3           | III/3           | III/3           |
| 1000                                                                                | 1000            | 1000                  | 1000            | 1000            | 1000            | 1000            |
| 88.2                                                                                | 88.2            | 105.0                 | 105.0           | 105.0           | 105.0           | 105.0           |
| 88.2                                                                                | 88.2            | 88.2                  | 88.2            | 88.2            | 88.2            | 88.2            |
| 42                                                                                  | 42              | 42                    | 42              | 42              | 42              | 42              |
| –                                                                                   | –               | –                     | –               | –               | –               | –               |
| 42                                                                                  | 42              | 85                    | 85              | 85              | 85              | 85              |
| 42                                                                                  | 42              | 50                    | 50              | 50              | 50              | 50              |
| 42                                                                                  | 42              | 42                    | 42              | 42              | 42              | 42              |
| –                                                                                   | –               | –                     | –               | –               | –               | –               |
| 42                                                                                  | 42              | 50                    | 50              | 50              | 50              | 50              |
| 42                                                                                  | 42              | 50                    | 50              | 50              | 50              | 50              |
| 42                                                                                  | 42              | 42                    | 42              | 42              | 42              | 42              |
| –                                                                                   | –               | –                     | –               | –               | –               | –               |
| 20                                                                                  | 20              | 20                    | 20              | 20              | 20              | 20              |
| 25                                                                                  | 25              | 25                    | 25              | 25              | 25              | 25              |
| 30                                                                                  | 30              | 30                    | 30              | 30              | 30              | 30              |
| 25/50                                                                               | 25/50           | 25/50                 | 25/50           | 25/50           | 25/50           | 25/50           |
| 25                                                                                  | 25              | 25                    | 25              | 25              | 25              | 25              |
| 12500                                                                               | 12500           | 12500                 | 12500           | 12500           | 12500           | 12500           |
| 20000                                                                               | 20000           | 20000                 | 20000           | 20000           | 20000           | 20000           |
| 10000                                                                               | 10000           | 10000                 | 10000           | 10000           | 10000           | 10000           |
| 10000                                                                               | 10000           | 10000                 | 10000           | 10000           | 10000           | 10000           |
| 60                                                                                  | 60              | 60                    | 60              | 60              | 60              | 60              |
| 132                                                                                 | 235             | 36                    | 59              | 92              | 132             | 235             |
| 180                                                                                 | 320             | 50                    | 80              | 125             | 180             | 320             |
| 15.23                                                                               | 15.23           | 15.23                 | 15.23           | 15.23           | 15.23           | 15.23           |
| 20.14                                                                               | 20.14           | 20.14                 | 20.14           | 20.14           | 20.14           | 20.14           |
| 38.65                                                                               | 38.65           | 38.65                 | 38.65           | 38.65           | 38.65           | 38.65           |
| 47.17                                                                               | 47.17           | 47.17                 | 47.17           | 47.17           | 47.17           | 47.17           |

| IZMX16...                                                             |                                                                        |                       |              | Moeller NK1230-1187en                                                              |                 | http://catalog.moeller.net |       |
|-----------------------------------------------------------------------|------------------------------------------------------------------------|-----------------------|--------------|------------------------------------------------------------------------------------|-----------------|----------------------------|-------|
|                                                                       |                                                                        |                       |              | IZMX16H...06...                                                                    | IZMX16H...08... | IZMX16H...10...            |       |
| General                                                               |                                                                        |                       |              |                                                                                    |                 |                            |       |
| Standards                                                             |                                                                        |                       |              | IEC/EN 60947                                                                       |                 |                            |       |
| Ambient temperature                                                   |                                                                        | Storage               | °C           | -40 - +70 (device with LCD-display -20 - +70)                                      |                 |                            |       |
|                                                                       |                                                                        | Operating (open)      | °C           | -25 - +70 (device with LCD-display -20 - +70)                                      |                 |                            |       |
| Mounting position                                                     |                                                                        |                       |              |  |                 |                            |       |
| Utilization category                                                  |                                                                        |                       |              | B                                                                                  |                 |                            |       |
| Protection type                                                       |                                                                        |                       |              | IP20, IP54 with protective cover                                                   |                 |                            |       |
| Direction of incoming supply                                          |                                                                        |                       |              | as required                                                                        |                 |                            |       |
| Main conducting paths                                                 |                                                                        |                       |              |                                                                                    |                 |                            |       |
| Rated current = rated uninterrupted current                           |                                                                        | $I_n = I_u$           | A            | 630                                                                                | 800             | 1000                       |       |
| Rated uninterrupted current at 50 °C <sup>1)</sup>                    |                                                                        | $I_u$                 | A            | 599                                                                                | 760             | 950                        |       |
| Rated uninterrupted current at 60 °C <sup>1)</sup>                    |                                                                        | $I_u$                 | A            | 567                                                                                | 720             | 900                        |       |
| Rated uninterrupted current at 70 °C <sup>1)</sup>                    |                                                                        | $I_u$                 | A            | 504                                                                                | 640             | 800                        |       |
| Rated impulse withstand voltage                                       |                                                                        | $U_{imp}$             | V AC         | 12000                                                                              | 12000           | 12000                      |       |
| Rated operational voltage                                             |                                                                        | $U_e$                 | V AC         | 690                                                                                | 690             | 690                        |       |
| Use in IT electrical power networks up to $U = 440$ V                 |                                                                        | $I_{IT}$              | kA           | 21.5                                                                               | 21.5            | 21.5                       |       |
| Use in IT electrical power networks up to $U = 690$ V                 |                                                                        | $I_{IT}$              | kA           | –                                                                                  | –               | –                          |       |
| Overvoltage category/pollution degree                                 |                                                                        |                       |              | III/3                                                                              | III/3           | III/3                      |       |
| Rated insulation voltage                                              |                                                                        | $U_i$                 | V            | 1000                                                                               | 1000            | 1000                       |       |
| Switching capacity                                                    |                                                                        |                       |              |                                                                                    |                 |                            |       |
| Rated short-circuit making capacity                                   |                                                                        | up to 440 V 50/60 Hz  | $I_{cm}$     | kA                                                                                 | 136.5           | 136.5                      | 136.5 |
|                                                                       |                                                                        | up to 690 V 50/60 Hz  | $I_{cm}$     | kA                                                                                 | 88.2            | 88.2                       | 88.2  |
| Rated short-time withstand current 50/60 Hz                           |                                                                        | t = 1 s               | $I_{cw}$     | kA                                                                                 | 42              | 42                         | 42    |
|                                                                       |                                                                        | t = 3 s               | $I_{cw}$     | kA                                                                                 | –               | –                          | –     |
| Rated short-circuit breaking capacity $I_{cn}$                        |                                                                        |                       |              |                                                                                    |                 |                            |       |
| IEC/EN 60947 operating sequence $I_{cu}$ O-t-CO                       |                                                                        | up to 240 V 50/60 Hz  | $I_{cu}$     | kA                                                                                 | 85              | 85                         | 85    |
|                                                                       |                                                                        | up to 440 V 50/60 Hz  | $I_{cu}$     | kA                                                                                 | 65              | 65                         | 65    |
|                                                                       |                                                                        | up to 690 V 50/60 Hz  | $I_{cu}$     | kA                                                                                 | 42              | 42                         | 42    |
|                                                                       |                                                                        | up to 1100 V 50/60 Hz | $I_{cu}$     | kA                                                                                 | –               | –                          | –     |
| IEC/EN 60947 operating sequence $I_{cs}$ O-t-CO-t-CO                  |                                                                        | up to 240 V 50/60 Hz  | $I_{cs}$     | kA                                                                                 | 65              | 65                         | 65    |
|                                                                       |                                                                        | up to 440 V 50/60 Hz  | $I_{cs}$     | kA                                                                                 | 50              | 50                         | 50    |
|                                                                       |                                                                        | up to 690 V 50/60 Hz  | $I_{cs}$     | kA                                                                                 | 42              | 42                         | 42    |
|                                                                       |                                                                        | up to 1100 V 50/60 Hz | $I_{cs}$     | kA                                                                                 | –               | –                          | –     |
| Operating delays                                                      | Total opening delay                                                    |                       | ms           | 20                                                                                 | 20              | 20                         |       |
|                                                                       | Closing delay electrical (via closing release)                         |                       | ms           | 25                                                                                 | 25              | 25                         |       |
|                                                                       | Closing delay                                                          |                       | ms           | 30                                                                                 | 30              | 30                         |       |
|                                                                       | Opening delay electrical (via shunt release / undervoltage release)    |                       | ms           | 25/50                                                                              | 25/50           | 25/50                      |       |
|                                                                       | Opening delay via trip electronics (non-delayed short-circuit release) |                       | ms           | 25                                                                                 | 25              | 25                         |       |
| Lifespan                                                              | mechanical, without maintenance                                        |                       | Operations   | 12500                                                                              | 12500           | 12500                      |       |
|                                                                       | mechanical, with maintenance                                           |                       | Operations   | 20000                                                                              | 20000           | 20000                      |       |
|                                                                       | electrical, without maintenance                                        |                       | Operations   | 10000                                                                              | 10000           | 10000                      |       |
|                                                                       | electrical, with maintenance                                           |                       | Operations   | 10000                                                                              | 10000           | 10000                      |       |
| Maximum operating frequency                                           |                                                                        |                       | Operations/h | 60                                                                                 | 60              | 60                         |       |
| Heat dissipation at rated current $I_n$ with 3-phase symmetrical load |                                                                        | Fixed mounting        | W            | 36                                                                                 | 59              | 92                         |       |
|                                                                       |                                                                        | Withdrawable units    | W            | 50                                                                                 | 80              | 125                        |       |
| Weight                                                                |                                                                        |                       |              |                                                                                    |                 |                            |       |
| Fixed mounting                                                        |                                                                        | 3-pole                | kg           | 15.23                                                                              | 15.23           | 15.23                      |       |
|                                                                       |                                                                        | 4-pole                | kg           | 20.14                                                                              | 20.14           | 20.14                      |       |
| Withdrawable units                                                    |                                                                        | 3-pole                | kg           | 38.65                                                                              | 38.65           | 38.65                      |       |
|                                                                       |                                                                        | 4-pole                | kg           | 47.17                                                                              | 47.17           | 47.17                      |       |

Notes

<sup>1)</sup> Permissible continuous current for circuit-breakers operating in switchboards at various internal ambient temperatures. The switchboard's internal ambient temperature should be estimated using the calculation methods of IEC regulation.

| IZMX16H...12...                                                                     |  | IZMX16H...16... |  |
|-------------------------------------------------------------------------------------|--|-----------------|--|
|                                                                                     |  |                 |  |
| IEC/EN 60947                                                                        |  |                 |  |
| -40 - +70 (device with LCD-display -20 - +70)                                       |  |                 |  |
| -25 - +70 (device with LCD-display -20 - +70)                                       |  |                 |  |
|  |  |                 |  |
| B                                                                                   |  |                 |  |
| IP20, IP54 with protective cover                                                    |  |                 |  |
| as required                                                                         |  |                 |  |
|                                                                                     |  |                 |  |
| 1250                                                                                |  | 1600            |  |
| 1188                                                                                |  | 1520            |  |
| 1125                                                                                |  | 1440            |  |
| 1000                                                                                |  | 1280            |  |
| 12000                                                                               |  | 12000           |  |
| 690                                                                                 |  | 690             |  |
| 21.5                                                                                |  | 21.5            |  |
| –                                                                                   |  | –               |  |
| III/3                                                                               |  | III/3           |  |
| 1000                                                                                |  | 1000            |  |
|                                                                                     |  |                 |  |
| 136.5                                                                               |  | 136.5           |  |
| 88.2                                                                                |  | 88.2            |  |
| 42                                                                                  |  | 42              |  |
| –                                                                                   |  | –               |  |
|                                                                                     |  |                 |  |
| 85                                                                                  |  | 85              |  |
| 65                                                                                  |  | 65              |  |
| 42                                                                                  |  | 42              |  |
| –                                                                                   |  | –               |  |
| 65                                                                                  |  | 65              |  |
| 50                                                                                  |  | 50              |  |
| 42                                                                                  |  | 42              |  |
| –                                                                                   |  | –               |  |
| 20                                                                                  |  | 20              |  |
|                                                                                     |  |                 |  |
| 25                                                                                  |  | 25              |  |
| 30                                                                                  |  | 30              |  |
| 25/50                                                                               |  | 25/50           |  |
| 25                                                                                  |  | 25              |  |
|                                                                                     |  |                 |  |
| 12500                                                                               |  | 12500           |  |
| 20000                                                                               |  | 20000           |  |
| 10000                                                                               |  | 10000           |  |
| 10000                                                                               |  | 10000           |  |
| 60                                                                                  |  | 60              |  |
| 132                                                                                 |  | 235             |  |
| 180                                                                                 |  | 320             |  |
|                                                                                     |  |                 |  |
| 15.23                                                                               |  | 15.23           |  |
| 20.14                                                                               |  | 20.14           |  |
| 38.65                                                                               |  | 38.65           |  |
| 47.17                                                                               |  | 47.17           |  |

| INX16...                                                              |                                                                     |                      |          | Moeller NK1230-1187en                                                              |                | http://catalog.moeller.net |      |
|-----------------------------------------------------------------------|---------------------------------------------------------------------|----------------------|----------|------------------------------------------------------------------------------------|----------------|----------------------------|------|
|                                                                       |                                                                     |                      |          | INX16B...06...                                                                     | INX16B...08... | INX16B...10...             |      |
| General                                                               |                                                                     |                      |          |                                                                                    |                |                            |      |
| Standards                                                             |                                                                     |                      |          | IEC/EN 60947                                                                       |                |                            |      |
| Ambient temperature                                                   |                                                                     | Storage              | °C       | -40 - +70                                                                          |                |                            |      |
|                                                                       |                                                                     | Operating (open)     | °C       | -25 - +70 (device with LCD-display -20 - +70)                                      |                |                            |      |
| Mounting position                                                     |                                                                     |                      |          |  |                |                            |      |
| Utilization category                                                  |                                                                     |                      |          | BB                                                                                 |                |                            |      |
| Protection type                                                       |                                                                     |                      |          | IP20, IP54 with protective cover                                                   |                |                            |      |
| Direction of incoming supply                                          |                                                                     |                      |          | as required                                                                        |                |                            |      |
| Main conducting paths                                                 |                                                                     |                      |          |                                                                                    |                |                            |      |
| Rated current = rated uninterrupted current                           |                                                                     | $I_n = I_u$          | A        | 630                                                                                | 800            | 1000                       |      |
| Rated uninterrupted current at 50 °C <sup>1)</sup>                    |                                                                     | $I_u$                | A        | 599                                                                                | 760            | 950                        |      |
| Rated uninterrupted current at 60 °C <sup>1)</sup>                    |                                                                     | $I_u$                | A        | 567                                                                                | 720            | 900                        |      |
| Rated uninterrupted current at 70 °C <sup>1)</sup>                    |                                                                     | $I_u$                | A        | 504                                                                                | 640            | 800                        |      |
| Rated impulse withstand voltage                                       |                                                                     | $U_{imp}$            | V AC     | 12000                                                                              | 12000          | 12000                      |      |
| Rated operational voltage                                             |                                                                     | $U_e$                | V AC     | 690                                                                                | 690            | 690                        |      |
| Use in IT electrical power networks up to $U = 440$ V                 |                                                                     | $I_{IT}$             | kA       | 21.5                                                                               | 21.5           | 21.5                       |      |
| Use in IT electrical power networks up to $U = 690$ V                 |                                                                     | $I_{IT}$             | kA       | –                                                                                  | –              | –                          |      |
| Overvoltage category/pollution degree                                 |                                                                     |                      |          | III/3                                                                              | III/3          | III/3                      |      |
| Rated insulation voltage                                              |                                                                     | $U_i$                | V        | 1000                                                                               | 1000           | 1000                       |      |
| Switching capacity                                                    |                                                                     |                      |          |                                                                                    |                |                            |      |
| Rated short-circuit making capacity                                   |                                                                     | up to 440 V 50/60 Hz | $I_{cm}$ | kA                                                                                 | 88.2           | 88.2                       | 88.2 |
|                                                                       |                                                                     | up to 690 V 50/60 Hz | $I_{cm}$ | kA                                                                                 | 88.2           | 88.2                       | 88.2 |
| Rated short-time withstand current 50/60 Hz                           |                                                                     | t = 1 s              | $I_{cw}$ | kA                                                                                 | 42             | 42                         | 42   |
|                                                                       |                                                                     | t = 3 s              | $I_{cw}$ | kA                                                                                 | –              | –                          | –    |
| Operating delays                                                      | Total opening delay                                                 |                      | ms       | 20                                                                                 | 20             | 20                         |      |
|                                                                       | Closing delay                                                       |                      | ms       | 25                                                                                 | 25             | 25                         |      |
|                                                                       | Closing delay electrical (via closing release)                      |                      | ms       | 30                                                                                 | 30             | 30                         |      |
|                                                                       | Opening delay electrical (via shunt release / undervoltage release) |                      | ms       | 25/50                                                                              | 25/50          | 25/50                      |      |
| Lifespan                                                              | mechanical, without maintenance                                     | Operations           |          | 12500                                                                              | 12500          | 12500                      |      |
|                                                                       | mechanical, with maintenance                                        | Operations           |          | 20000                                                                              | 20000          | 20000                      |      |
|                                                                       | electrical, without maintenance                                     | Operations           |          | 10000                                                                              | 10000          | 10000                      |      |
|                                                                       | electrical, with maintenance                                        | Operations           |          | 10000                                                                              | 10000          | 10000                      |      |
| Maximum operating frequency                                           |                                                                     | Operations/h         |          | 60                                                                                 | 60             | 60                         |      |
| Heat dissipation at rated current $I_n$ with 3-phase symmetrical load |                                                                     | Fixed mounting       | W        | 36                                                                                 | 59             | 92                         |      |
|                                                                       |                                                                     | Withdrawable units   | W        | 50                                                                                 | 80             | 125                        |      |
| Weight                                                                |                                                                     |                      |          |                                                                                    |                |                            |      |
| Fixed mounting                                                        |                                                                     | 3-pole               | kg       | 15.23                                                                              | 15.23          | 15.23                      |      |
|                                                                       |                                                                     | 4-pole               | kg       | 20.14                                                                              | 20.14          | 20.14                      |      |
| Withdrawable units                                                    |                                                                     | 3-pole               | kg       | 38.65                                                                              | 38.65          | 38.65                      |      |
|                                                                       |                                                                     | 4-pole               | kg       | 47.17                                                                              | 47.17          | 47.17                      |      |

| http://catalog.moeller.net                                                          |                | Moeller NK1230-1187en |                | INX16...       |                |                |
|-------------------------------------------------------------------------------------|----------------|-----------------------|----------------|----------------|----------------|----------------|
| INX16B...12...                                                                      | INX16B...16... | INX16N...06...        | INX16N...08... | INX16N...10... | INX16N...12... | INX16N...16... |
| IEC/EN 60947                                                                        |                |                       |                |                |                |                |
| -40 - +70                                                                           |                |                       |                |                |                |                |
| -25 - +70 (device with LCD-display -20 - +70)                                       |                |                       |                |                |                |                |
|  |                |                       |                |                |                |                |
| B                                                                                   |                |                       |                |                |                |                |
| IP20, IP54 with protective cover                                                    |                |                       |                |                |                |                |
| as required                                                                         |                |                       |                |                |                |                |
| 1250                                                                                | 1600           | 630                   | 800            | 1000           | 1250           | 1600           |
| 1188                                                                                | 1520           | 599                   | 760            | 950            | 1188           | 1520           |
| 1125                                                                                | 1440           | 567                   | 720            | 900            | 1125           | 1440           |
| 1000                                                                                | 1280           | 504                   | 640            | 800            | 1000           | 1280           |
| 12000                                                                               | 12000          | 12000                 | 12000          | 12000          | 12000          | 12000          |
| 690                                                                                 | 690            | 690                   | 690            | 690            | 690            | 690            |
| 21.5                                                                                | 21.5           | 21.5                  | 21.5           | 21.5           | 21.5           | 21.5           |
| –                                                                                   | –              | –                     | –              | –              | –              | –              |
| III/3                                                                               | III/3          | III/3                 | III/3          | III/3          | III/3          | III/3          |
| 1000                                                                                | 1000           | 1000                  | 1000           | 1000           | 1000           | 1000           |
| 88.2                                                                                | 88.2           | 88.2                  | 88.2           | 88.2           | 88.2           | 88.2           |
| 88.2                                                                                | 88.2           | 88.2                  | 88.2           | 88.2           | 88.2           | 88.2           |
| 42                                                                                  | 42             | 42                    | 42             | 42             | 42             | 42             |
| –                                                                                   | –              | –                     | –              | –              | –              | –              |
| 20                                                                                  | 20             | 20                    | 20             | 20             | 20             | 20             |
| 25                                                                                  | 25             | 25                    | 25             | 25             | 25             | 25             |
| 30                                                                                  | 30             | 30                    | 30             | 30             | 30             | 30             |
| 25/50                                                                               | 25/50          | 25/50                 | 25/50          | 25/50          | 25/50          | 25/50          |
| 12500                                                                               | 12500          | 12500                 | 12500          | 12500          | 12500          | 12500          |
| 20000                                                                               | 20000          | 20000                 | 20000          | 20000          | 20000          | 20000          |
| 10000                                                                               | 10000          | 10000                 | 10000          | 10000          | 10000          | 10000          |
| 10000                                                                               | 10000          | 10000                 | 10000          | 10000          | 10000          | 10000          |
| 60                                                                                  | 60             | 60                    | 60             | 60             | 60             | 60             |
| 132                                                                                 | 235            | 36                    | 59             | 92             | 132            | 235            |
| 180                                                                                 | 320            | 50                    | 80             | 125            | 180            | 320            |
| 15.23                                                                               | 15.23          | 15.23                 | 15.23          | 15.23          | 15.23          | 15.23          |
| 20.14                                                                               | 20.14          | 20.14                 | 20.14          | 20.14          | 20.14          | 20.14          |
| 38.65                                                                               | 38.65          | 38.65                 | 38.65          | 38.65          | 38.65          | 38.65          |
| 47.17                                                                               | 47.17          | 47.17                 | 47.17          | 47.17          | 47.17          | 47.17          |

| INX16...                                                              |                                                                     |                      |          | Moeller NK1230-1187en                                                              |                | http://catalog.moeller.net |      |
|-----------------------------------------------------------------------|---------------------------------------------------------------------|----------------------|----------|------------------------------------------------------------------------------------|----------------|----------------------------|------|
|                                                                       |                                                                     |                      |          | INX16H...06...                                                                     | INX16H...08... | INX16H...10...             |      |
| General                                                               |                                                                     |                      |          |                                                                                    |                |                            |      |
| Standards                                                             |                                                                     |                      |          | IEC/EN 60947                                                                       |                |                            |      |
| Ambient temperature                                                   |                                                                     | Storage              | °C       | -40 - +70                                                                          |                |                            |      |
|                                                                       |                                                                     | Operating (open)     | °C       | -25 - +70 (device with LCD-display -20 - +70)                                      |                |                            |      |
| Mounting position                                                     |                                                                     |                      |          |  |                |                            |      |
| Utilization category                                                  |                                                                     |                      |          | B                                                                                  |                |                            |      |
| Protection type                                                       |                                                                     |                      |          | IP20, IP54 with protective cover                                                   |                |                            |      |
| Direction of incoming supply                                          |                                                                     |                      |          | as required                                                                        |                |                            |      |
| Main conducting paths                                                 |                                                                     |                      |          |                                                                                    |                |                            |      |
| Rated current = rated uninterrupted current                           |                                                                     | $I_n = I_u$          | A        | 630                                                                                | 800            | 1000                       |      |
| Rated uninterrupted current at 50 °C <sup>1)</sup>                    |                                                                     | $I_u$                | A        | 599                                                                                | 760            | 950                        |      |
| Rated uninterrupted current at 60 °C <sup>1)</sup>                    |                                                                     | $I_u$                | A        | 567                                                                                | 720            | 900                        |      |
| Rated uninterrupted current at 70 °C <sup>1)</sup>                    |                                                                     | $I_u$                | A        | 504                                                                                | 640            | 800                        |      |
| Rated impulse withstand voltage                                       |                                                                     | $U_{imp}$            | V AC     | 12000                                                                              | 12000          | 12000                      |      |
| Rated operational voltage                                             |                                                                     | $U_e$                | V AC     | 690                                                                                | 690            | 690                        |      |
| Use in IT electrical power networks up to $U = 440$ V                 |                                                                     | $I_{IT}$             | kA       | 21.5                                                                               | 21.5           | 21.5                       |      |
| Use in IT electrical power networks up to $U = 690$ V                 |                                                                     | $I_{IT}$             | kA       | –                                                                                  | –              | –                          |      |
| Overvoltage category/pollution degree                                 |                                                                     |                      |          | III/3                                                                              | III/3          | III/3                      |      |
| Rated insulation voltage                                              |                                                                     | $U_i$                | V        | 1000                                                                               | 1000           | 1000                       |      |
| Switching capacity                                                    |                                                                     |                      |          |                                                                                    |                |                            |      |
| Rated short-circuit making capacity                                   |                                                                     | up to 440 V 50/60 Hz | $I_{cm}$ | kA                                                                                 | 88.2           | 88.2                       | 88.2 |
|                                                                       |                                                                     | up to 690 V 50/60 Hz | $I_{cm}$ | kA                                                                                 | 88.2           | 88.2                       | 88.2 |
| Rated short-time withstand current 50/60 Hz                           |                                                                     | t = 1 s              | $I_{cw}$ | kA                                                                                 | 42             | 42                         | 42   |
|                                                                       |                                                                     | t = 3 s              | $I_{cw}$ | kA                                                                                 | –              | –                          | –    |
| Operating delays                                                      | Total opening delay                                                 |                      | ms       | 20                                                                                 | 20             | 20                         |      |
|                                                                       | Closing delay                                                       |                      | ms       | 25                                                                                 | 25             | 25                         |      |
|                                                                       | Closing delay electrical (via closing release)                      |                      | ms       | 30                                                                                 | 30             | 30                         |      |
|                                                                       | Opening delay electrical (via shunt release / undervoltage release) |                      | ms       | 25/50                                                                              | 25/50          | 25/50                      |      |
| Lifespan                                                              | mechanical, without maintenance                                     | Operations           |          | 12500                                                                              | 12500          | 12500                      |      |
|                                                                       | mechanical, with maintenance                                        | Operations           |          | 20000                                                                              | 20000          | 20000                      |      |
|                                                                       | electrical, without maintenance                                     | Operations           |          | 10000                                                                              | 10000          | 10000                      |      |
|                                                                       | electrical, with maintenance                                        | Operations           |          | 10000                                                                              | 10000          | 10000                      |      |
| Maximum operating frequency                                           |                                                                     | Operations/h         |          | 60                                                                                 | 60             | 60                         |      |
| Heat dissipation at rated current $I_n$ with 3-phase symmetrical load |                                                                     | Fixed mounting       | W        | 36                                                                                 | 59             | 92                         |      |
|                                                                       |                                                                     | Withdrawable units   | W        | 50                                                                                 | 80             | 125                        |      |
| Weight                                                                |                                                                     |                      |          |                                                                                    |                |                            |      |
| Fixed mounting                                                        |                                                                     | 3-pole               | kg       | 15.23                                                                              | 15.23          | 15.23                      |      |
|                                                                       |                                                                     | 4-pole               | kg       | 20.14                                                                              | 20.14          | 20.14                      |      |
| Withdrawable units                                                    |                                                                     | 3-pole               | kg       | 38.65                                                                              | 38.65          | 38.65                      |      |
|                                                                       |                                                                     | 4-pole               | kg       | 47.17                                                                              | 47.17          | 47.17                      |      |

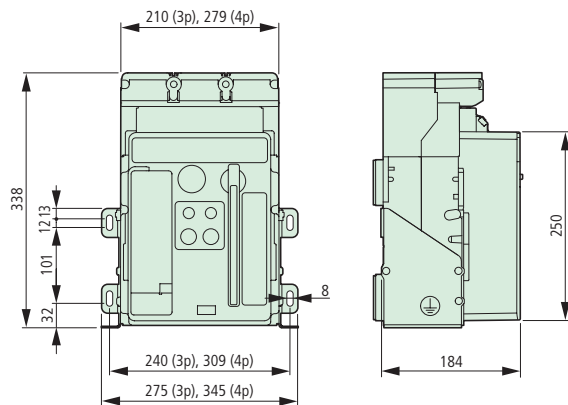
| http://catalog.moeller.net                                                          |                                                                                     | Moeller |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------|
| INX16H...12...                                                                      | INX16H...16...                                                                      |         |
|                                                                                     |                                                                                     |         |
| IEC/EN 60947                                                                        |                                                                                     |         |
| -40 - +70                                                                           |                                                                                     |         |
| -25 - +70 (device with LCD-display -20 - +70)                                       |                                                                                     |         |
|  |  |         |
| B                                                                                   |                                                                                     |         |
| IP20, IP54 with protective cover<br>as required                                     |                                                                                     |         |
| 1250                                                                                | 1600                                                                                |         |
| 1188                                                                                | 1520                                                                                |         |
| 1125                                                                                | 1440                                                                                |         |
| 1000                                                                                | 1280                                                                                |         |
| 12000                                                                               | 12000                                                                               |         |
| 690                                                                                 | 690                                                                                 |         |
| 21.5                                                                                | 21.5                                                                                |         |
| —                                                                                   | —                                                                                   |         |
| III/3                                                                               | III/3                                                                               |         |
| 1000                                                                                | 1000                                                                                |         |
| 88.2                                                                                | 88.2                                                                                |         |
| 88.2                                                                                | 88.2                                                                                |         |
| 42                                                                                  | 42                                                                                  |         |
| —                                                                                   | —                                                                                   |         |
| 20                                                                                  | 20                                                                                  |         |
| 25                                                                                  | 25                                                                                  |         |
| 30                                                                                  | 30                                                                                  |         |
| 25/50                                                                               | 25/50                                                                               |         |
| 12500                                                                               | 12500                                                                               |         |
| 20000                                                                               | 20000                                                                               |         |
| 10000                                                                               | 10000                                                                               |         |
| 10000                                                                               | 10000                                                                               |         |
| 60                                                                                  | 60                                                                                  |         |
| 132                                                                                 | 235                                                                                 |         |
| 180                                                                                 | 320                                                                                 |         |
| 15.23                                                                               | 15.23                                                                               |         |
| 20.14                                                                               | 20.14                                                                               |         |
| 38.65                                                                               | 38.65                                                                               |         |
| 47.17                                                                               | 47.17                                                                               |         |

|                                        |          |              |                                                  |                             |                               |                               |                 |                 |                 |                  |
|----------------------------------------|----------|--------------|--------------------------------------------------|-----------------------------|-------------------------------|-------------------------------|-----------------|-----------------|-----------------|------------------|
|                                        |          |              | Auxiliary switches and overcurrent trip switches |                             |                               |                               |                 |                 |                 |                  |
|                                        |          |              | IZMX-AS22                                        | IZMX-OTS                    |                               |                               |                 |                 |                 |                  |
| Rated breaking capacity                |          |              |                                                  |                             |                               |                               |                 |                 |                 |                  |
| Inductive load                         |          |              |                                                  |                             |                               |                               |                 |                 |                 |                  |
| 250 V AC                               | A        |              | 10                                               | 10                          |                               |                               |                 |                 |                 |                  |
| 125 V DC                               | A        |              | 0.5                                              | 0.5                         |                               |                               |                 |                 |                 |                  |
| 250 V DC                               | A        |              | 0.25                                             | 0.25                        |                               |                               |                 |                 |                 |                  |
|                                        |          |              |                                                  |                             |                               |                               |                 |                 |                 |                  |
|                                        |          |              | Shunt trips                                      |                             |                               |                               | Spring releases |                 |                 |                  |
|                                        |          |              | IZMX-ST24DC<br>IZMX-ST524DC                      | IZMX-ST48DC<br>IZMX-ST548DC | IZMX-ST110AD<br>IZMX-ST5110AD | IZMX-ST230AD<br>IZMX-ST5230AD | IZMX-SR24DC     | IZMX-SR48DC     | IZMX-SR110AD    | IZMX-SR230AD     |
| Rated control voltage                  |          |              |                                                  |                             |                               |                               |                 |                 |                 |                  |
| AC 50/60 Hz                            | $U_s$    | V            | —                                                | —                           | 110 - 127                     | 208 - 240                     | —               | —               | 110 - 127       | 208 - 240        |
| DC                                     | $U_s$    | V            | 24                                               | 48                          | 110 - 125                     | 220 - 250                     | 24              | 48              | 110 - 125       | 220 - 250        |
| Power consumption                      |          |              |                                                  |                             |                               |                               |                 |                 |                 |                  |
| AC                                     |          | VA           | —                                                | —                           | (pick-up 450)                 | (pick-up 450)                 | —               | —               | (pick-up 540)   | (pick-up 500)    |
| DC                                     |          | W            | 5 (pick-up 500)                                  | 5 (pick-up 530)             | (pick-up 450)                 | (pick-up 450)                 | (pick-up 500)   | (pick-up 530)   | (pick-up 540)   | (pick-up 515)    |
| Circuit-breaker response time at $U_s$ |          | ms           | 25                                               | 25                          | 35                            | 35                            | 25              | 25              | 25              | 25               |
| Operating range                        |          |              |                                                  |                             |                               |                               |                 |                 |                 |                  |
| Drop-out voltage                       |          |              |                                                  |                             |                               |                               |                 |                 |                 |                  |
| AC, 50/60 Hz, pick-up                  | Drop-out | $\times U_c$ | —                                                |                             |                               |                               |                 |                 |                 |                  |
| Pick-up voltage                        |          |              |                                                  |                             |                               |                               |                 |                 |                 |                  |
|                                        | Pick-up  | $\times U_c$ | According to the IEC standard                    |                             |                               |                               |                 |                 |                 |                  |
|                                        |          |              |                                                  |                             |                               |                               |                 |                 |                 |                  |
|                                        |          |              | Undervoltage releases                            |                             |                               |                               |                 |                 |                 |                  |
|                                        |          |              | IZMX-UVR24DC                                     | IZMX-UVR32DC                | IZMX-UVR48DC                  | IZMX-UVR110AD                 | IZMX-UVR220AD   | IZMX-UVR400AC   | IZMX-UVR480AC   | IZMX-UVR600AC    |
| Rated control voltage                  |          |              |                                                  |                             |                               |                               |                 |                 |                 |                  |
| AC 50/60 Hz                            | $U_s$    | V            | —                                                | —                           | —                             | 110 - 127                     | 208 - 240       | 380 - 415       | 480             | 600              |
| DC                                     | $U_s$    | V            | 24                                               | 32                          | 48                            | 110 - 125                     | 220 - 250       | —               | —               | —                |
| Power consumption                      |          |              |                                                  |                             |                               |                               |                 |                 |                 |                  |
| AC                                     |          | VA           | —                                                | —                           | —                             | 5 (pick-up 890)               | 5 (pick-up 910) | 5 (pick-up 960) | 8 (pick-up 800) | 12 (pick-up 800) |
| DC                                     |          | W            | 5 (pick-up 500)                                  | 5 (pick-up 620)             | 5 (pick-up 850)               | 5 (pick-up 890)               | 5 (pick-up 910) | 5 (pick-up 910) | 5 (pick-up 910) | 5 (pick-up 910)  |
| Circuit-breaker response time at $U_s$ |          | ms           | 50                                               | 50                          | 50                            | 50                            | 50              | 50              | 50              | 50               |
| Operating range                        |          |              |                                                  |                             |                               |                               |                 |                 |                 |                  |
| Drop-out voltage                       |          |              |                                                  |                             |                               |                               |                 |                 |                 |                  |
| AC, 50/60 Hz, pick-up                  | Drop-out | $\times U_c$ | According to the IEC standard                    |                             |                               |                               |                 |                 |                 |                  |
| Pick-up voltage                        |          |              |                                                  |                             |                               |                               |                 |                 |                 |                  |
|                                        | Pick-up  | $\times U_c$ | According to the IEC standard                    |                             |                               |                               |                 |                 |                 |                  |

|                                                                                                                              |       |    | Motor operators |               |                |                |                |                |
|------------------------------------------------------------------------------------------------------------------------------|-------|----|-----------------|---------------|----------------|----------------|----------------|----------------|
|                                                                                                                              |       |    | IZMX-M16-24DC   | IZMX-M16-48DC | IZMX-M16-110AC | IZMX-M16-110DC | IZMX-M16-230AC | IZMX-M16-220DC |
| <b>Rated control voltage</b>                                                                                                 |       |    |                 |               |                |                |                |                |
| AC 50/60 Hz                                                                                                                  | $U_s$ | V  | –               | –             | 110 - 127      | –              | 220 - 240      | –              |
| DC                                                                                                                           | $U_s$ | V  | 24              | 48            | –              | 110 - 125      | –              | 220 - 250      |
| <b>Necessary time requirement for charging of the spring-operated stored energy mechanism with <math>1 \times U_s</math></b> |       |    | s               | 3             | 3              | 3              | 3              | 4              |
| <b>Rated current</b>                                                                                                         |       |    | $I_n$           | A             | 5              | 3              | 2              | 1              |
| <b>Starting current</b>                                                                                                      |       |    |                 | A             | 5              | 5              | 3              | 5              |
| <b>Power consumption</b>                                                                                                     |       |    |                 |               |                |                |                |                |
| AC 50/60 Hz                                                                                                                  |       | VA | –               | –             | 280            | 280            | 280            | 280            |
| DC                                                                                                                           |       | W  | 150             | 150           | 150            | 150            | 150            | 280            |

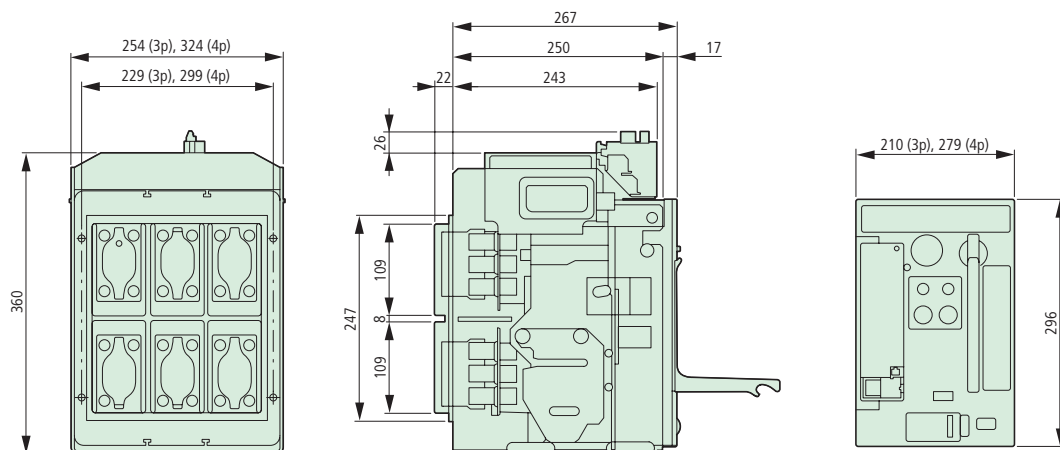
### INX16, IZMX16 fixed

INX16...F, IZMX16...F



### INX16, IZMX16 withdrawable

INX16...W, IZMX16...W



## IZM26

Moeller NK1230-1187en

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| $I_{cu} = I_{cs}$ at $U_e = 440/690$ (1100) V AC<br>$I_{cu}$ : Rated ultimate short-circuit breaking capacity at rated operational voltage $U_e$<br>$I_{cs}$ : Rated service short-circuit breaking capacity at rated operational voltage $U_e$ |                          | Basic switching capacity (B)            | Normal switching capacity (N)           | High switching capacity (H)             | (S)                                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|--------------------------------------|
| Circuit-breaker                                                                                                                                                                                                                                 | Rated current $I_n$<br>A | 440/690 V AC<br>$I_{cu} = I_{cs}$<br>kA | 440/690 V AC<br>$I_{cu} = I_{cs}$<br>kA | 440/690 V AC<br>$I_{cu} = I_{cs}$<br>kA | 1100 V AC<br>$I_{cu} = I_{cs}$<br>kA |
| IZM20                                                                                                                                                                                                                                           | 800 – 1600               | 50/50                                   | 65/65                                   | –                                       | –                                    |
| IZM20                                                                                                                                                                                                                                           | 2000                     | 50/50                                   | 65/65                                   | –                                       | –                                    |
| IZM32                                                                                                                                                                                                                                           | 800 – 1600               | 65/65                                   | 85/85                                   | 100/85                                  | –                                    |
| IZM32                                                                                                                                                                                                                                           | 2000 – 3200              | 65/65                                   | 85/85                                   | 100/85                                  | –                                    |
| IZM40                                                                                                                                                                                                                                           | 4000                     | –                                       | 85/65                                   | 100/65                                  | –                                    |
| IZM63                                                                                                                                                                                                                                           | 4000 – 6300              | –                                       | 85/85                                   | 100/100                                 | –                                    |
| IZM32S                                                                                                                                                                                                                                          | 3200                     | –                                       | –                                       | –                                       | 25                                   |

| $I_{cw}$ t = 1 s/t = 3 s<br>$I_{cw}$ : Rated short-time withstand current |                          | Basic switching capacity (B)      | Normal switching capacity (N)     | High switching capacity (H)       |
|---------------------------------------------------------------------------|--------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| Circuit-breaker                                                           | Rated current $I_n$<br>A | t = 1 s/t = 3 s<br>$I_{cw}$<br>kA | t = 1 s/t = 3 s<br>$I_{cw}$<br>kA | t = 1 s/t = 3 s<br>$I_{cw}$<br>kA |
| IZM20                                                                     | 800 – 1600               | 50/–                              | 65/40                             | –                                 |
| IZM20                                                                     | 2000                     | 50/30                             | 65/40                             | –                                 |
| IZM32                                                                     | 800 – 1600               | 65/–                              | 85/65                             | 85/65                             |
| IZM32                                                                     | 2000 – 3200              | 65/50                             | 85/65                             | 85/65                             |
| IZM40                                                                     | 4000                     | –                                 | 85/65                             | 100/65                            |
| IZM63                                                                     | 4000 – 6300              | –                                 | 85/65                             | 100/65                            |

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Moeller NK1230-1187en

IN26

| $I_{cm}$ at $U_e = 440/690$ V AC<br>$I_{cm}$ : Rated short-circuit making capacity<br>(maximum prospective peak value)<br>at rated operational voltage $U_e$ |                          | Basic switching capacity (B) | Normal switching capacity (N) | High switching capacity (H) | (S)                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|------------------------------|-------------------------------|-----------------------------|-------------------------|
|                                                                                                                                                              |                          | 440/690 V AC                 | 440/690 V AC                  | 440/690 V AC                | 1100 V AC               |
| Switch-disconnectors                                                                                                                                         | Rated current $I_n$<br>A | $I_{cm}$<br>kA               | $I_{cm}$<br>kA                | $I_{cm}$<br>kA              | $I_{cu} = I_{cs}$<br>kA |
| IN20                                                                                                                                                         | 800 – 1600               | 105                          | 143                           | –                           | –                       |
| IN20                                                                                                                                                         | 2000                     | 105                          | 143                           | –                           | –                       |
| IN32                                                                                                                                                         | 800 – 1600               | 143                          | 187                           | –                           | –                       |
| IN32                                                                                                                                                         | 2000 – 3200              | 143                          | 187                           | –                           | –                       |
| IN40                                                                                                                                                         | 4000                     | –                            | 187                           | 220                         | –                       |
| IN63                                                                                                                                                         | 4000 – 6300              | –                            | 187                           | 220                         | –                       |
| IN32S                                                                                                                                                        | 3200                     | –                            | –                             | –                           | 52.5                    |

| $I_{cw}$ $t = 1$ s/ $t = 3$ s<br>$I_{cw}$ : Rated short-time withstand current |                          | Basic switching capacity (B) | Normal switching capacity (N) | High switching capacity (H) |
|--------------------------------------------------------------------------------|--------------------------|------------------------------|-------------------------------|-----------------------------|
|                                                                                |                          | $t = 1$ s/ $t = 3$ s         | $t = 1$ s/ $t = 3$ s          | $t = 1$ s/ $t = 3$ s        |
| Switch-disconnectors                                                           | Rated current $I_n$<br>A | $I_{cw}$<br>kA               | $I_{cw}$<br>kA                | $I_{cw}$<br>kA              |
| IN20                                                                           | 800 – 1600               | 50/–                         | 65/40                         | –                           |
| IN20                                                                           | 2000                     | 50/30                        | 65/40                         | –                           |
| IN32                                                                           | 800 – 1600               | 65/–                         | 85/65                         | –                           |
| IN32                                                                           | 2000 – 3200              | 65/50                        | 85/65                         | –                           |
| IN40                                                                           | 4000                     | –                            | 85/65                         | 100/65                      |
| IN63                                                                           | 4000 – 6300              | –                            | 85/65                         | 100/65                      |

# Technical overview

## Trip units for circuit-breakers IZM26

IZM26...

Moeller NK1230-1187en

<http://catalog.moeller.net>**IZM26 ...-A...**

System protection  
DTA  
Digitrip 520 LI

**IZM26 ...-V...**

Selective protection  
DTV  
Digitrip 520 LSI(G)

**IZM26 ...-U...**

Universal protection  
DTU  
Digitrip 520MC LSI(G)

**IZM26 ...-P...**

Universal protection  
with power measurement  
DTP  
Digitrip 1150i LSI(G)



|                                                                   |                          |                                               |                                               |                                               |
|-------------------------------------------------------------------|--------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|
| Ampere range                                                      | 200 A – 3200 A           | 200 A – 6300 A                                | 200 A – 6300 A                                | 200 A – 6300 A                                |
| RMS sensing                                                       | ●                        | ●                                             | ●                                             | ●                                             |
| <b>Protection and coordination</b>                                |                          |                                               |                                               |                                               |
| <b>General</b>                                                    |                          |                                               |                                               |                                               |
| Ordering options                                                  | LI                       | LSI, LSI(G)                                   | LSI, LSI(G), LSIA                             | LSI, LSI(G), LSIA                             |
| Rating plug ( $I_n$ )                                             | ●                        | ●                                             | ●                                             | ●                                             |
| Overtemperature trip                                              | ●                        | ●                                             | ●                                             | ●                                             |
| <b>Long delay protection L</b>                                    |                          |                                               |                                               |                                               |
| Long delay pickup                                                 | 0.4 - 1.0 x ( $I_n$ )    | 0.4 - 1.0 x ( $I_n$ )                         | 0.4 - 1.0 x ( $I_n$ )                         | 0.4 - 1.0 x ( $I_n$ )                         |
| Long delay time $t_r$ at 6 x $I_r$                                | 2 - 24 s                 | 2 - 24 s                                      | 2 - 24 s                                      | 2 - 24 s                                      |
| Long delay time $I^2t$                                            | –                        | –                                             | –                                             | 1 - 5 s                                       |
| Long delay thermal memory                                         | ●                        | ●                                             | ●                                             | ●                                             |
| High load alarm                                                   | –                        | –                                             | ○ <sup>1)</sup>                               | ○ <sup>1)</sup> : 0.5 - 1.0 x ( $I_r$ )       |
| <b>Short delay protection S</b>                                   |                          |                                               |                                               |                                               |
| Short delay pickup                                                | –                        | 200 - 1000 % x ( $I_r$ ) and M1 <sup>3)</sup> | 200 - 1000 % x ( $I_r$ ) and M1 <sup>3)</sup> | 200 - 1000 % x ( $I_r$ ) and M1 <sup>3)</sup> |
| Short delay time $t_{sd}$ at 8 x $I_r$ , $I^2t$ curve             | –                        | 100 - 500 ms                                  | 100 - 500 ms                                  | 100 - 500 ms                                  |
| Short delay time, flat curve                                      | –                        | 100 - 500 ms                                  | 100 - 500 ms                                  | 100 - 500 ms                                  |
| Short delay time<br>Zone Selective Interlocking ZSI <sup>1)</sup> | –                        | ○                                             | ○                                             | ○                                             |
| <b>Instantaneous protection I</b>                                 |                          |                                               |                                               |                                               |
| Instantaneous pickup                                              | 200 - 1000 % x ( $I_n$ ) | 200 - 1000 % x ( $I_n$ ) and M1 <sup>3)</sup> | 200 - 1000 % x ( $I_n$ ) and M1 <sup>3)</sup> | 200 - 1000 % x ( $I_n$ ) and M1 <sup>3)</sup> |
| Off position                                                      | –                        | ●                                             | ●                                             | ●                                             |
| Making current release                                            | ●                        | ●                                             | ●                                             | ●                                             |
| <b>Option Earth fault protection G</b>                            |                          |                                               |                                               |                                               |
| Earth fault alarm                                                 | –                        | –                                             | ○ <sup>1)</sup>                               | ○ <sup>1)</sup>                               |
| Earth fault pickup                                                | –                        | 25 - 100% x ( $I_n$ )                         | 25 - 100% x ( $I_n$ ) <sup>4)</sup>           | 25 - 100% x ( $I_n$ ) <sup>4)</sup>           |
| Earth fault delay $t_g$ at 0,625 x $I_n$ , $I^2t$ curve           | –                        | 100 - 500 ms                                  | 100 - 500 ms                                  | 100 - 500 ms                                  |
| Earth fault delay, flat curve                                     | –                        | 100 - 500 ms                                  | 100 - 500 ms                                  | 100 - 500 ms                                  |
| Earth fault<br>Zone Selective Interlocking ZSI <sup>1)</sup>      | –                        | ○                                             | ○                                             | ○                                             |
| Earth fault thermal memory                                        | –                        | ●                                             | ●                                             | ●                                             |
| <b>Neutral protection N</b>                                       |                          |                                               |                                               |                                               |
|                                                                   | ●                        | Model LSI only                                | Model LSI only                                | Model LSI only                                |

**Notes** $I_n$  = Rating plug and sensor rating $I_r$  = Long delay pickup setting<sup>1)</sup> Requires 24 V DC AUX voltage input.<sup>2)</sup> Test set for secondary injection.<sup>3)</sup> Additional available max M1 settings:**IZM20**M1 = 14 x  $I_n$  for Plug Amps 200 A through 1250 AM1 = 12 x  $I_n$  for Plug Amps 1600 AM1 = 10 x  $I_n$  for Plug Amps 2000 A**IZM32, IZM40**M1 = 14 x  $I_n$  for Plug Amps 200 A through 1250 AM1 = 12 x  $I_n$  for Plug Amps 1600 A through 2500 AM1 = 10 x  $I_n$  for Plug Amps 3200 A through 4000 A**IZM63**M1 = 14 x  $I_n$  for Plug Amps 2000 A through 2500 AM1 = 12 x  $I_n$  for Plug Amps 3200 A through 5000 AM1 = 10 x  $I_n$  for Plug Amps 6300 A<sup>4)</sup> In combination with ARMS option limited to 1200 A.

● Standard

○ Optional

### IZM26 ...-A...

System protection  
DTA  
Digitrip 520 LI



### IZM26 ...-V...

Selective protection  
DTV  
Digitrip 520 LSI(G)



### IZM26 ...-U...

Universal protection  
DTU  
Digitrip 520MC LSI(G)



### IZM26 ...-P...

Universal protection  
with power measurement  
DTP  
Digitrip 1150i LSI(G)



| System diagnostics                            |          |          |                  |                       |
|-----------------------------------------------|----------|----------|------------------|-----------------------|
| Cause of trip LEDs                            | ●        | ●        | ●                | ●                     |
| Magnitude of trip information                 | —        | —        | ● <sup>1)</sup>  | ● <sup>1)</sup>       |
| Remote signal contacts                        | —        | —        | ● <sup>1)</sup>  | ● <sup>1)</sup>       |
| Programmable contacts                         | —        | —        | —                | ● <sup>1)</sup>       |
| System monitoring                             |          |          |                  |                       |
| Digital display                               | —        | —        | 4 character LCD  | 24 character LCD      |
| Current (%) full scale sensor                 | —        | —        | ●                | ●                     |
| Voltage (%) L - L                             | —        | —        | —                | ●                     |
| Power and energy (%)                          | —        | —        | —                | ●                     |
| Apparent power kVA and demand                 | —        | —        | —                | ●                     |
| Reactive power kVAR                           | —        | —        | —                | ●                     |
| Power factor                                  | —        | —        | —                | ●                     |
| Crest factor                                  | —        | —        | —                | ●                     |
| Power quality, harmonics                      | —        | —        | —                | ●                     |
| % THD                                         | —        | —        | —                | ●                     |
| Field bus communication                       | —        | —        | Modbus, Profibus | Modbus, Profibus      |
| Additional features                           |          |          |                  |                       |
| Trip log (3 events)                           | —        | —        | —                | ●                     |
| Electronic operations counter                 | —        | —        | —                | ●                     |
| Testing method <sup>2)</sup>                  | Test set | Test set | Test set         | Integral and test set |
| Arcflash Reduction Maintenance System (ARMS™) | —        | —        | ○ <sup>1)</sup>  | ○ <sup>1)</sup>       |
| Waveform capture                              | —        | —        | —                | ●                     |

#### Notes

$I_n$  = Rating plug and sensor rating  
 $I_r$  = Long delay pickup setting  
<sup>1)</sup> Requires 24 V DC AUX voltage input.  
<sup>2)</sup> Test set for secondary injection.  
<sup>3)</sup> Additional available max M1 settings:

#### IZM20

M1 = 14 x  $I_n$  for Plug Amps 200 A through 1250 A

M1 = 12 x  $I_n$  for Plug Amps 1600 A

M1 = 10 x  $I_n$  for Plug Amps 2000 A

#### IZM32, IZM40

M1 = 14 x  $I_n$  for Plug Amps 200 A through 1250 A

M1 = 12 x  $I_n$  for Plug Amps 1600 A through 2500 A

M1 = 10 x  $I_n$  for Plug Amps 3200 A through 4000 A

#### IZM63

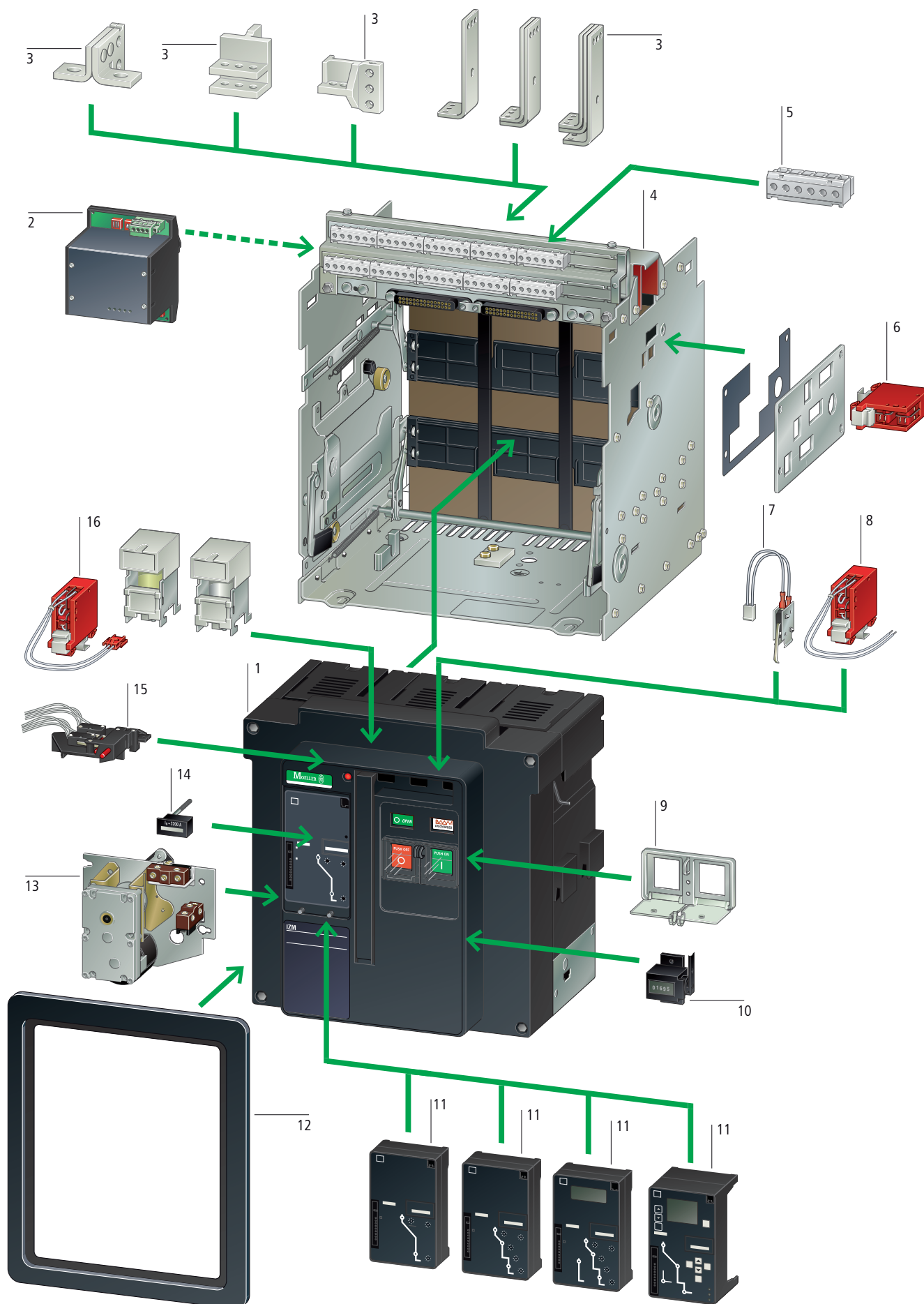
M1 = 14 x  $I_n$  for Plug Amps 2000 A through 2500 A

M1 = 12 x  $I_n$  for Plug Amps 3200 A through 5000 A

M1 = 10 x  $I_n$  for Plug Amps 6300 A

<sup>4)</sup> In combination with ARMS option limited to 1200 A.

● Standard  
○ Optional



|                                                                                                               |                                                                                                                                                                                                                            |                                                                                       |
|---------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>IZM air circuit-breakers</b> 1<br>→ Page 40                                                                | <b>Latch check switches</b> 7<br>→ Page 59                                                                                                                                                                                 | <b>Door escutcheon</b> 12<br>→ Page 70                                                |
| <b>Translator INCOM to PROFIBUS and MODBUS</b> 2<br>→ Page 63                                                 | <b>Standard auxiliary contacts</b> 8<br>ON/OFF auxiliary switches<br>→ Page 59                                                                                                                                             | <b>Motor operators</b> 13<br>Charge the closing springs electrically<br>→ Page 56     |
| <b>Main terminal sets</b> 3<br>Vertical terminals 3- and 4-pole<br>Front terminals 3- and 4-pole<br>→ Page 69 | <b>Padlockable pushbutton covers</b> 9<br>→ Page 60                                                                                                                                                                        | <b>Phase current sensors and rating plugs</b> 14<br>→ Page 64                         |
| <b>Cassettes for drawout breakers</b> 4<br>Cassettes 2000 A to 6300 A<br>→ Page 54                            | <b>Operations counter</b> 10<br>→ Page 56                                                                                                                                                                                  | <b>Overcurrent trip switch</b> 15<br>Overcurrent trip switch (OTS), 2 CO<br>→ Page 59 |
| <b>Secondary terminal kits</b> 5<br>With 2 or 15 blocks<br>→ Page 70                                          | <b>Trip units</b> 11<br>Cannot be ordered separately at present.<br>Digitrip 520 LI<br>Digitrip 520 LSI,<br>Digitrip 520i LSiG<br>Digitrip 520MC LSI,<br>Digitrip 520MCi LSiG<br>Digitrip 1150i LSI,<br>Digitrip 1150 LSiG | <b>Shunt trips</b> 16<br>→ Page 57                                                    |
| <b>Cell switches for drawout breakers</b> 6<br>→ Page 56                                                      |                                                                                                                                                                                                                            | <b>Spring releases</b> 16<br>→ Page 57                                                |
|                                                                                                               |                                                                                                                                                                                                                            | <b>Undervoltage releases</b> 16<br>→ Page 58                                          |

### Type code

|     |    |   |   |   |   |    |   |
|-----|----|---|---|---|---|----|---|
| IZM | 20 | B | 3 | - | A | 08 | W |
| IN  | 32 | N | 4 |   | V | 10 | F |
|     | 40 | H |   |   | U | 12 |   |
|     | 63 | S |   |   | P | 16 |   |
|     |    |   |   |   |   | 20 |   |
|     |    |   |   |   |   | 25 |   |
|     |    |   |   |   |   | 32 |   |
|     |    |   |   |   |   | 40 |   |
|     |    |   |   |   |   | 50 |   |
|     |    |   |   |   |   | 63 |   |

### IZM, IN = Product family

#### Frame size

**20:** Narrow 800 - 2000 A  
**32:** Standard 800 - 3200 A  
**40:** Double-narrow 4000 A  
**63:** Double-wide 4000 - 6300 A

#### Switching capacity

**B** = Basic  
**N** = Normal  
**H** = High  
**S** = Special type for 1100 V (only for frame size 32, 3200 A)

**3-pole**  
**4-pole**

#### Tripping characteristic

**A** = System protection = Digitrip 520 LI  
**V** = Selective protection = Digitrip 520 LSi(G)  
**U** = Universal protection = Digitrip 520MC LSi(G)  
**P** = Universal protection with power measurement = Digitrip 1150i+ LSi(G)

#### Rated current

**08:** 800 A  
**10:** 1000 A  
**12:** 1250 A  
**16:** 1600 A  
**20:** 2000 A  
**25:** 2500 A  
**32:** 3200 A  
**40:** 4000 A  
**50:** 5000 A  
**63:** 6300 A

#### Model

**W** = Withdrawable  
**F** = Fixed



#### IZM26: Robust safety

Moeller's IZM26 circuit-breakers offer a proven and complete range of air circuit-breakers up to 6,300 A. Four sizes enable the ideal circuit-breaker to be selected economically for any project. In this way, only the module width increases with the required rated current, enabling the most compact and economical size to be selected.

The particularly rugged circuit-breakers are already in use many 100,000 times in harsh industrial environments worldwide. Large material thicknesses and a high short-time withstand current are their characteristic features.

#### Applications

The circuit-breakers can be used in four main application areas depending on the type of equipment to be protected:

- System protection
- Motor protection
- Transformer protection
- Generator protection.

These key applications make different demands on the switches, which are met with a range of trip units.

#### Switches with spring release

They are particularly suitable for synchronization tasks.

#### Coupler switches

Beside the IZM26 circuit-breakers, IN26 switch-disconnectors are available. These are used, for example, as coupler switches between different power supply units.

#### Modular design

Because components are installed from the front, retrofitting accessories is especially quick and easy. This allows you to respond flexibly to changing requirements within your system.

#### Standard scope of delivery as usual

- With the new IZM26, you also select a basic device that is already fitted with a trip unit and horizontal terminal adapters.
- The standard mounting is on a horizontal mounting plate or on horizontal traverses in the switching cabinet.
- With four-pole devices, the neutral conductor is arranged on the left (front view).
- The neutral conductor can be loaded 100 % like the phase conductors.
- The circuit-breakers are provided with a standard mechanical reclosing lockout. After an overload trip, the fault is usually examined first of all. After the fault is identified and rectified, the mechanical reclosing lockout is reset by pressing the red mechanical trip indicator on the front of the circuit-breaker.
- An "Automatic Reset" can be ordered as an option. This enables the circuit-breaker to be restored to operation immediately at any time after the spring-operated stored energy mechanism is retensioned. In these applications compulsory fault analysis is intentionally avoided.
- The number of secondary terminal blocks depends on the accessories fitted.
- If a cassette is ordered without the basic unit, this is already fitted with the maximum number of secondary terminal blocks.
- The standard consists of 2 NO contacts and 2 NC contacts for ON/OFF status indication.
- A coding mechanism between the basic unit and the cassette prevents impermissible combinations ("Rejection Interlock").

#### Expanded standard scope of delivery for IZM26

Some order types from the past can no longer be found since the following options are now already part of the standard scope of delivery:

- The door sealing frame is now always included in the scope of delivery. With withdrawable designs this is supplied with the cassette (withdrawable unit).
- Arc chute cover for withdrawable unit: The circuit-breaker can be pulled out to inspect the arc chute. (With fixed units, it is recommended that sufficient space is provided above the circuit-breaker to enable inspection. An additional cover is not required).
- All basic devices that are provided with universal protection (with Digitrip 520M...) now feature a display.
- On each circuit-breaker the integrated Digitrip electronic release is factory fitted with a sealable protective cover.
- If a motor operator is ordered, the "Spring-charged" auxiliary contact is automatically provided.

# IZM26 circuit-breakers, IN26 switch-disconnectors

<http://catalog.moeller.net>

Moeller NK1230-1187en

IZM26, IN26

## Other benefits of the IZM26

- There are still four main variants of overcurrent release units. Only the fourth variant was renamed and is now "P" (as in Power Measurement) instead of "D" (as in Digital release). On each P circuit-breaker (Digitrip 1150) the power measurement is already an integral part of the electronic release.
- The voltage tap-off for power measurement is integrated in the device so that an additional external voltage transformer is unnecessary. This solution saves costs, space and installation effort.
- Certain applications require the use of an interface to the external control voltage supply (see below). A new feature is that the electronic release can be prepared for an external control voltage supply of 120 V AC or 240 V AC (order option).
- A switching operations counter can now be used thanks to the separate mounting position, also independently of a motor operator.
- Withdrawable unit operation:  
The unit is actuated with a hand crank supplied. This is now possible also with a standard tool (square drive socket 3/8").
- Four sizes are available to ensure the optimum device for any application. As before, the entire rated current range from 800 A to 6300 A can be covered with two sizes.
- Sizes IZM40 and IZM63 are produced in simple terms by doubling sizes IZM20 and IZM32. This consequently provides on the IZM40 and IZM63 two terminals for each phase on the incoming side and on the outgoing side. This facilitates the thermal design of the switchboard and in some switchboard systems simplifies production by reducing the number of busbar adapter variants.
- The phase sequence for the IZM40 and IZM63 is as follows: (NN)AABBCC.
- The IZM for 6300 A is now offered with horizontal connection as standard, thus considerably simplifying the busbar connection for most switchboard systems.

## External control voltage supply

- The standard protection functions of the IZM26 operate generally independently of an external control voltage supply. The power supply of the electronics unit, for example for overload and short-circuit protection, is implemented via the current transformers integrated in the circuit-breaker.
- The universal release unit with display can be fed with a 24 V DC/48 V DC supply or a 120 V AC or 240 V AC supply if required so that the display function can also be used without a load. An external power supply is needed if communication functions are required.
- The P release unit should always be operated with an external power supply as it is normally selected due to its extensive control voltage dependent functions.

## Communication-capability

With their communication-capability, the IZM26 circuit-breakers open up new possibilities in power distribution. Providing and transmitting all important operational information, they increase system transparency and shorten the response times to states such as overcurrent, phase asymmetry and overvoltage.

A rapid intervention in a process can, for example, prevent downtimes and help to schedule maintenance activities and therefore boost plant availability.

A Modbus interface is offered as an alternative in addition to the Profibus interface.

## Greater safety for maintenance personnel with ARMS™

If the IZM26 is fitted with the newly patented ARMS system (Arcflash Reduction Maintenance System), a non-delayed immediate disconnection is ensured in the event of an arc fault. This disconnection is even faster than that of a non-delayed short-circuit release.

This function can be activated directly on the circuit-breaker or via an external switch, such as when maintenance personnel enter a hazardous area. Other components from the ARCON protective system, in conjunction with the IZM26 enable arc fault protection in stages.

ARCON on the Internet: [www.moeller.net/arcon](http://www.moeller.net/arcon)

## Selection criteria for IZM26 circuit-breakers

Fundamental criteria for the selection of circuit-breakers:

- Max. short-circuit current at the point of installation of the circuit-breaker  $I_{k\max}$ : this value determines the short-circuit breaking capacity or the short-circuit current carrying capacity of the circuit-breaker. It is compared to the  $I_{cu}$ ,  $I_{cs}$  and  $I_{cw}$  values of the circuit-breaker and determines essentially its size (see Technical data).
- Rated current  $I_n$  which should flow through the respective branch circuit: this value may not be greater than the maximum switch rated current of the circuit-breaker. The rated current can be adjusted down using additional rating plug modules.
- Ambient temperature of the circuit-breaker:  
This is generally the internal temperature in the control panel. Observe the derating values with increased ambient temperature (see Technical data).
- Circuit-breaker type:  
fixed mounted or withdrawable, 3 or 4-pole.
- Minimum short-circuit current, which flows through the switchgear:  
The trip unit must recognize this value as a short-circuit and react with a trip.
- Protection functions of the circuit-breaker: These are determined by the selection of the respective overcurrent release.

## Documentation

Operating manual  
AWB1230-1605de  
AWB1230-1605en

## Characteristics program CurveSelect

Setting-specific representation of tripping characteristics and competent assessment of their interaction:  
[www.moeller.net/en/support](http://www.moeller.net/en/support)

| IZM26                                                                                                        |                  |         |                                                                                   |                                                                                   |                                                                                   | Moeller NK1230-1187en            |                            | http://catalog.moeller.net               |                            |
|--------------------------------------------------------------------------------------------------------------|------------------|---------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------|----------------------------|------------------------------------------|----------------------------|
| Switching capacity                                                                                           | Rated current    | Size    | Setting range                                                                     |                                                                                   |                                                                                   | fixed<br>Part no.<br>Article no. | Price<br>see<br>price list | withdrawable                             |                            |
|                                                                                                              |                  |         | Overload releases                                                                 | Short-circuit releases                                                            |                                                                                   |                                  |                            | Part no.<br>Article no.                  | Price<br>see<br>price list |
|                                                                                                              |                  |         |                                                                                   | Delayed                                                                           | Non-delayed                                                                       |                                  |                            |                                          |                            |
| $I_{cu} = I_{cs}$<br>kA                                                                                      | $I_n = I_u$<br>A |         | $I_r$<br>A                                                                        | $I_{sd} = I_r \times \dots$                                                       | $I_i = I_n \times \dots$                                                          |                                  |                            | Cassette needs to be ordered separately. |                            |
|                                                                                                              |                  |         |  |  |  |                                  |                            |                                          |                            |
| Circuit-breaker for system protection                                                                        |                  |         |                                                                                   |                                                                                   |                                                                                   |                                  |                            |                                          |                            |
| Including rear connection main terminals and secondary terminal blocks according to ordered breaker options. |                  |         |                                                                                   |                                                                                   |                                                                                   |                                  |                            |                                          |                            |
| 50                                                                                                           | 800              | IZM20   | 320 – 800                                                                         | –                                                                                 | 2 - 10                                                                            | IZM20B3-A08F<br>123400           |                            | IZM20B3-A08W<br>123160                   |                            |
|                                                                                                              | 1000             |         | 400 – 1000                                                                        |                                                                                   |                                                                                   | IZM20B3-A10F<br>123401           |                            | IZM20B3-A10W<br>123161                   |                            |
|                                                                                                              | 1250             |         | 500 – 1250                                                                        |                                                                                   |                                                                                   | IZM20B3-A12F<br>123402           |                            | IZM20B3-A12W<br>123162                   |                            |
|                                                                                                              | 1600             |         | 640 – 1600                                                                        |                                                                                   |                                                                                   | IZM20B3-A16F<br>123403           |                            | IZM20B3-A16W<br>123163                   |                            |
|                                                                                                              | 2000             |         | 800 – 2000                                                                        |                                                                                   |                                                                                   | IZM20B3-A20F<br>123404           |                            | IZM20B3-A20W<br>123164                   |                            |
| 65                                                                                                           | 800              | IZM20   | 320 – 800                                                                         |                                                                                   |                                                                                   | IZM20N3-A08F<br>123430           |                            | IZM20N3-A08W<br>123190                   |                            |
|                                                                                                              | 1000             |         | 400 – 1000                                                                        |                                                                                   |                                                                                   | IZM20N3-A10F<br>123431           |                            | IZM20N3-A10W<br>123191                   |                            |
|                                                                                                              | 1250             |         | 500 – 1250                                                                        |                                                                                   |                                                                                   | IZM20N3-A12F<br>123432           |                            | IZM20N3-A12W<br>123192                   |                            |
|                                                                                                              | 1600             |         | 640 – 1600                                                                        |                                                                                   |                                                                                   | IZM20N3-A16F<br>123433           |                            | IZM20N3-A16W<br>123193                   |                            |
|                                                                                                              | 2000             |         | 800 – 2000                                                                        |                                                                                   |                                                                                   | IZM20N3-A20F<br>123434           |                            | IZM20N3-A20W<br>123194                   |                            |
|                                                                                                              | 800              | IZM32   | 320 – 800                                                                         |                                                                                   |                                                                                   | IZM32B3-A08F<br>123899           |                            | IZM32B3-A08W<br>123609                   |                            |
|                                                                                                              | 1000             |         | 400 – 1000                                                                        |                                                                                   |                                                                                   | IZM32B3-A10F<br>123900           |                            | IZM32B3-A10W<br>123610                   |                            |
|                                                                                                              | 1250             |         | 500 – 1250                                                                        |                                                                                   |                                                                                   | IZM32B3-A12F<br>123901           |                            | IZM32B3-A12W<br>123611                   |                            |
|                                                                                                              | 1600             |         | 640 – 1600                                                                        |                                                                                   |                                                                                   | IZM32B3-A16F<br>123902           |                            | IZM32B3-A16W<br>123612                   |                            |
|                                                                                                              | 2000             |         | 800 – 2000                                                                        |                                                                                   |                                                                                   | IZM32B3-A20F<br>123903           |                            | IZM32B3-A20W<br>123613                   |                            |
|                                                                                                              | 2500             |         | 1000 – 2500                                                                       |                                                                                   |                                                                                   | IZM32B3-A25F<br>123904           |                            | IZM32B3-A25W<br>123614                   |                            |
|                                                                                                              | 3200             |         | 1280 – 3200                                                                       |                                                                                   |                                                                                   | IZM32B3-A32F<br>123905           |                            | IZM32B3-A32W<br>123615                   |                            |
|                                                                                                              | 800              |         | 320 – 800                                                                         |                                                                                   |                                                                                   | IZM32N3-A08F<br>123939           |                            | IZM32N3-A08W<br>123649                   |                            |
|                                                                                                              | 1000             |         | 400 – 1000                                                                        |                                                                                   |                                                                                   | IZM32N3-A10F<br>123940           |                            | IZM32N3-A10W<br>123650                   |                            |
|                                                                                                              | 1250             |         | 500 – 1250                                                                        |                                                                                   |                                                                                   | IZM32N3-A12F<br>123941           |                            | IZM32N3-A12W<br>123651                   |                            |
|                                                                                                              | 1600             |         | 640 – 1600                                                                        |                                                                                   |                                                                                   | IZM32N3-A16F<br>123942           |                            | IZM32N3-A16W<br>123652                   |                            |
|                                                                                                              | 2000             |         | 800 – 2000                                                                        |                                                                                   |                                                                                   | IZM32N3-A20F<br>123943           |                            | IZM32N3-A20W<br>123653                   |                            |
|                                                                                                              | 2500             |         | 1000 – 2500                                                                       |                                                                                   |                                                                                   | IZM32N3-A25F<br>123944           |                            | IZM32N3-A25W<br>123654                   |                            |
| 3200                                                                                                         | 1280 – 3200      |         |                                                                                   |                                                                                   | IZM32N3-A32F<br>123945                                                            |                                  | IZM32N3-A32W<br>123655     |                                          |                            |
| 85                                                                                                           | 800              | IZM32H3 | 320 – 800                                                                         |                                                                                   |                                                                                   | IZM32H3-A08F<br>123979           |                            | IZM32H3-A08W<br>123689                   |                            |
|                                                                                                              | 1000             |         | 400 – 1000                                                                        |                                                                                   |                                                                                   | IZM32H3-A10F<br>123980           |                            | IZM32H3-A10W<br>123690                   |                            |
|                                                                                                              | 1250             |         | 500 – 1250                                                                        |                                                                                   |                                                                                   | IZM32H3-A12F<br>123981           |                            | IZM32H3-A12W<br>123691                   |                            |
|                                                                                                              | 1600             |         | 640 – 1600                                                                        |                                                                                   |                                                                                   | IZM32H3-A16F<br>123982           |                            | IZM32H3-A16W<br>123692                   |                            |
|                                                                                                              | 2000             |         | 800 – 2000                                                                        |                                                                                   |                                                                                   | IZM32H3-A20F<br>123983           |                            | IZM32H3-A20W<br>123693                   |                            |
|                                                                                                              | 2500             |         | 1000 – 2500                                                                       |                                                                                   |                                                                                   | IZM32H3-A25F<br>123984           |                            | IZM32H3-A25W<br>123694                   |                            |
|                                                                                                              | 3200             |         | 1280 – 3200                                                                       |                                                                                   |                                                                                   | IZM32H3-A32F<br>123985           |                            | IZM32H3-A32W<br>123695                   |                            |

| Switching capacity                                                                                           | Rated current    | Size    | Setting range                                                                     |                                                                                   | fixed                                                                             | Price see price list    | withdrawable                             | Price see price list |
|--------------------------------------------------------------------------------------------------------------|------------------|---------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------|------------------------------------------|----------------------|
|                                                                                                              |                  |         | Overload releases                                                                 | Short-circuit releases                                                            |                                                                                   |                         |                                          |                      |
|                                                                                                              |                  |         |                                                                                   | Delayed                                                                           | Non-delayed                                                                       |                         |                                          |                      |
| $I_{cu} = I_{cs}$<br>kA                                                                                      | $I_n = I_u$<br>A |         | $I_r$<br>A                                                                        | $I_{sd} = I_r \times \dots$                                                       | $I_i = I_n \times \dots$                                                          | Part no.<br>Article no. | Part no.<br>Article no.                  |                      |
|                                                                                                              |                  |         |  |  |  |                         | Cassette needs to be ordered separately. |                      |
| <b>Circuit-breaker for selective operation</b>                                                               |                  |         |                                                                                   |                                                                                   |                                                                                   |                         |                                          |                      |
| Including rear connection main terminals and secondary terminal blocks according to ordered breaker options. |                  |         |                                                                                   |                                                                                   |                                                                                   |                         |                                          |                      |
| 50                                                                                                           | 800              | IZM20   | 320 – 800                                                                         | 2 - 10                                                                            | 2 - 10, OFF                                                                       | IZM20B3-V08F<br>123406  | IZM20B3-V08W<br>123166                   |                      |
|                                                                                                              | 1000             |         | 400 – 1000                                                                        |                                                                                   |                                                                                   | IZM20B3-V10F<br>123407  | IZM20B3-V10W<br>123167                   |                      |
|                                                                                                              | 1250             |         | 500 – 1250                                                                        |                                                                                   |                                                                                   | IZM20B3-V12F<br>123408  | IZM20B3-V12W<br>123168                   |                      |
|                                                                                                              | 1600             |         | 640 – 1600                                                                        |                                                                                   |                                                                                   | IZM20B3-V16F<br>123409  | IZM20B3-V16W<br>123169                   |                      |
|                                                                                                              | 2000             |         | 800 – 2000                                                                        |                                                                                   |                                                                                   | IZM20B3-V20F<br>123410  | IZM20B3-V20W<br>123170                   |                      |
| 65                                                                                                           | 800              | IZM20   | 320 – 800                                                                         | 2 - 10                                                                            | 2 - 10, OFF                                                                       | IZM20N3-V08F<br>123436  | IZM20N3-V08W<br>123196                   |                      |
|                                                                                                              | 1000             |         | 400 – 1000                                                                        |                                                                                   |                                                                                   | IZM20N3-V10F<br>123437  | IZM20N3-V10W<br>123197                   |                      |
|                                                                                                              | 1250             |         | 500 – 1250                                                                        |                                                                                   |                                                                                   | IZM20N3-V12F<br>123438  | IZM20N3-V12W<br>123198                   |                      |
|                                                                                                              | 1600             |         | 640 – 1600                                                                        |                                                                                   |                                                                                   | IZM20N3-V16F<br>123439  | IZM20N3-V16W<br>123199                   |                      |
|                                                                                                              | 2000             |         | 800 – 2000                                                                        |                                                                                   |                                                                                   | IZM20N3-V20F<br>123440  | IZM20N3-V20W<br>123200                   |                      |
|                                                                                                              | 800              | IZM32   | 320 – 800                                                                         |                                                                                   |                                                                                   | IZM32B3-V08F<br>123907  | IZM32B3-V08W<br>123617                   |                      |
|                                                                                                              | 1000             |         | 400 – 1000                                                                        |                                                                                   |                                                                                   | IZM32B3-V10F<br>123908  | IZM32B3-V10W<br>123618                   |                      |
|                                                                                                              | 1250             |         | 500 – 1250                                                                        |                                                                                   |                                                                                   | IZM32B3-V12F<br>123909  | IZM32B3-V12W<br>123619                   |                      |
|                                                                                                              | 1600             |         | 640 – 1600                                                                        |                                                                                   |                                                                                   | IZM32B3-V16F<br>123910  | IZM32B3-V16W<br>123620                   |                      |
|                                                                                                              | 2000             |         | 800 – 2000                                                                        |                                                                                   |                                                                                   | IZM32B3-V20F<br>123911  | IZM32B3-V20W<br>123621                   |                      |
|                                                                                                              | 2500             |         | 1000 – 2500                                                                       |                                                                                   |                                                                                   | IZM32B3-V25F<br>123912  | IZM32B3-V25W<br>123622                   |                      |
|                                                                                                              | 3200             |         | 1280 – 3200                                                                       |                                                                                   |                                                                                   | IZM32B3-V32F<br>123913  | IZM32B3-V32W<br>123623                   |                      |
|                                                                                                              | 800              | IZM32N3 | 320 – 800                                                                         |                                                                                   |                                                                                   | IZM32N3-V08F<br>123947  | IZM32N3-V08W<br>123657                   |                      |
|                                                                                                              | 1000             |         | 400 – 1000                                                                        |                                                                                   |                                                                                   | IZM32N3-V10F<br>123948  | IZM32N3-V10W<br>123658                   |                      |
|                                                                                                              | 1250             |         | 500 – 1250                                                                        |                                                                                   |                                                                                   | IZM32N3-V12F<br>123949  | IZM32N3-V12W<br>123659                   |                      |
|                                                                                                              | 1600             |         | 640 – 1600                                                                        |                                                                                   |                                                                                   | IZM32N3-V16F<br>123950  | IZM32N3-V16W<br>123660                   |                      |
|                                                                                                              | 2000             |         | 800 – 2000                                                                        |                                                                                   |                                                                                   | IZM32N3-V20F<br>123951  | IZM32N3-V20W<br>123661                   |                      |
| 85                                                                                                           | 2500             | IZM32N3 | 1000 – 2500                                                                       |                                                                                   |                                                                                   | IZM32N3-V25F<br>123952  | IZM32N3-V25W<br>123662                   |                      |
|                                                                                                              | 3200             |         | 1280 – 3200                                                                       |                                                                                   |                                                                                   | IZM32N3-V32F<br>123953  | IZM32N3-V32W<br>123663                   |                      |
|                                                                                                              | 4000             | IZM40   | 1600 – 4000                                                                       |                                                                                   |                                                                                   | IZM40N3-V40F<br>124303  | IZM40N3-V40W<br>124193                   |                      |
|                                                                                                              | 4000             |         | 1600 – 4000                                                                       |                                                                                   |                                                                                   | IZM63N3-V40F<br>124304  | IZM63N3-V40W<br>124194                   |                      |
|                                                                                                              | 5000             | IZM63   | 2000 – 5000                                                                       |                                                                                   |                                                                                   | IZM63N3-V50F<br>124305  | IZM63N3-V50W<br>124195                   |                      |
|                                                                                                              | 6300             |         | 2520 – 6300                                                                       |                                                                                   |                                                                                   | IZM63N3-V63F<br>124306  | IZM63N3-V63W<br>124196                   |                      |

IZM26

| Switching capacity                                                                                           | Rated current    | Size  | Setting range                                                                     |                                                                                   | fixed                                                                             | Price see price list   | withdrawable                             | Price see price list |             |
|--------------------------------------------------------------------------------------------------------------|------------------|-------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------|------------------------------------------|----------------------|-------------|
|                                                                                                              |                  |       | Overload releases                                                                 | Short-circuit releases                                                            |                                                                                   |                        |                                          |                      |             |
|                                                                                                              |                  |       |                                                                                   | Delayed                                                                           |                                                                                   |                        |                                          |                      | Non-delayed |
| $I_{cu} = I_{cs}$<br>kA                                                                                      | $I_n = I_u$<br>A |       | $I_r$<br>A                                                                        | $I_{sd} = I_r \times \dots$                                                       | $I_i = I_n \times \dots$                                                          |                        | Cassette needs to be ordered separately. |                      |             |
|                                                                                                              |                  |       |  |  |  |                        |                                          |                      |             |
| Circuit-breaker for selective operation                                                                      |                  |       |                                                                                   |                                                                                   |                                                                                   |                        |                                          |                      |             |
| Including rear connection main terminals and secondary terminal blocks according to ordered breaker options. |                  |       |                                                                                   |                                                                                   |                                                                                   |                        |                                          |                      |             |
| 100                                                                                                          | 800              | IZM32 | 320 – 800                                                                         | 2 - 10                                                                            | 2 - 10, OFF                                                                       | IZM32H3-V08F<br>123987 | IZM32H3-V08W<br>123697                   |                      |             |
|                                                                                                              | 1000             |       | 400 – 1000                                                                        |                                                                                   |                                                                                   | IZM32H3-V10F<br>123988 | IZM32H3-V10W<br>123698                   |                      |             |
|                                                                                                              | 1250             |       | 500 – 1250                                                                        |                                                                                   |                                                                                   | IZM32H3-V12F<br>123989 | IZM32H3-V12W<br>123699                   |                      |             |
|                                                                                                              | 1600             |       | 640 – 1600                                                                        |                                                                                   |                                                                                   | IZM32H3-V16F<br>123990 | IZM32H3-V16W<br>123700                   |                      |             |
|                                                                                                              | 2000             |       | 800 – 2000                                                                        |                                                                                   |                                                                                   | IZM32H3-V20F<br>123991 | IZM32H3-V20W<br>123701                   |                      |             |
|                                                                                                              | 2500             |       | 1000 – 2500                                                                       |                                                                                   |                                                                                   | IZM32H3-V25F<br>123992 | IZM32H3-V25W<br>123702                   |                      |             |
|                                                                                                              | 3200             |       | 1280 – 3200                                                                       |                                                                                   |                                                                                   | IZM32H3-V32F<br>123993 | IZM32H3-V32W<br>123703                   |                      |             |
|                                                                                                              | 4000             | IZM40 | 1600 – 4000                                                                       |                                                                                   |                                                                                   | IZM40H3-V40F<br>124323 | IZM40H3-V40W<br>124213                   |                      |             |
|                                                                                                              | 4000             | IZM63 | 1600 – 4000                                                                       |                                                                                   |                                                                                   | IZM63H3-V40F<br>124324 | IZM63H3-V40W<br>124214                   |                      |             |
|                                                                                                              | 5000             |       | 2000 – 5000                                                                       |                                                                                   |                                                                                   | IZM63H3-V50F<br>124325 | IZM63H3-V50W<br>124215                   |                      |             |
|                                                                                                              | 6300             |       | 2520 – 6300                                                                       |                                                                                   |                                                                                   | IZM63H3-V63F<br>124326 | IZM63H3-V63W<br>124216                   |                      |             |
| Circuit-breaker with universal protection                                                                    |                  |       |                                                                                   |                                                                                   |                                                                                   |                        |                                          |                      |             |
| Including rear connection main terminals and secondary terminal blocks according to ordered breaker options. |                  |       |                                                                                   |                                                                                   |                                                                                   |                        |                                          |                      |             |
| 50                                                                                                           | 800              | IZM20 | 320 – 800                                                                         | 2 - 10                                                                            | 2 - 10, OFF                                                                       | IZM20B3-U08F<br>123412 | IZM20B3-U08W<br>123172                   |                      |             |
|                                                                                                              | 1000             |       | 400 – 1000                                                                        |                                                                                   |                                                                                   | IZM20B3-U10F<br>123413 | IZM20B3-U10W<br>123173                   |                      |             |
|                                                                                                              | 1250             |       | 500 – 1250                                                                        |                                                                                   |                                                                                   | IZM20B3-U12F<br>123414 | IZM20B3-U12W<br>123174                   |                      |             |
|                                                                                                              | 1600             |       | 640 – 1600                                                                        |                                                                                   |                                                                                   | IZM20B3-U16F<br>123415 | IZM20B3-U16W<br>123175                   |                      |             |
|                                                                                                              | 2000             |       | 800 – 2000                                                                        |                                                                                   |                                                                                   | IZM20B3-U20F<br>123416 | IZM20B3-U20W<br>123176                   |                      |             |
| 65                                                                                                           | 800              |       | 320 – 800                                                                         |                                                                                   |                                                                                   | IZM20N3-U08F<br>123442 | IZM20N3-U08W<br>123202                   |                      |             |
|                                                                                                              | 1000             |       | 400 – 1000                                                                        |                                                                                   |                                                                                   | IZM20N3-U10F<br>123443 | IZM20N3-U10W<br>123203                   |                      |             |
|                                                                                                              | 1250             |       | 500 – 1250                                                                        |                                                                                   |                                                                                   | IZM20N3-U12F<br>123444 | IZM20N3-U12W<br>123204                   |                      |             |
|                                                                                                              | 1600             |       | 640 – 1600                                                                        |                                                                                   |                                                                                   | IZM20N3-U16F<br>123445 | IZM20N3-U16W<br>123205                   |                      |             |
|                                                                                                              | 2000             |       | 800 – 2000                                                                        |                                                                                   |                                                                                   | IZM20N3-U20F<br>123446 | IZM20N3-U20W<br>123206                   |                      |             |
|                                                                                                              | 800              | IZM32 | 320 – 800                                                                         |                                                                                   |                                                                                   | IZM32B3-U08F<br>123915 | IZM32B3-U08W<br>123625                   |                      |             |
|                                                                                                              | 1000             |       | 400 – 1000                                                                        |                                                                                   |                                                                                   | IZM32B3-U10F<br>123916 | IZM32B3-U10W<br>123626                   |                      |             |
|                                                                                                              | 1250             |       | 500 – 1250                                                                        |                                                                                   |                                                                                   | IZM32B3-U12F<br>123917 | IZM32B3-U12W<br>123627                   |                      |             |
|                                                                                                              | 1600             |       | 640 – 1600                                                                        |                                                                                   |                                                                                   | IZM32B3-U16F<br>123918 | IZM32B3-U16W<br>123628                   |                      |             |
|                                                                                                              | 2000             |       | 800 – 2000                                                                        |                                                                                   |                                                                                   | IZM32B3-U20F<br>123919 | IZM32B3-U20W<br>123629                   |                      |             |
|                                                                                                              | 2500             |       | 1000 – 2500                                                                       |                                                                                   |                                                                                   | IZM32B3-U25F<br>123920 | IZM32B3-U25W<br>123630                   |                      |             |
|                                                                                                              | 3200             |       | 1280 – 3200                                                                       |                                                                                   |                                                                                   | IZM32B3-U32F<br>123921 | IZM32B3-U32W<br>123631                   |                      |             |

| Switching capacity                                                                                           | Rated current    | Size  | Setting range                                                                     |                                                                                   | fixed                                                                             | Price see price list   | withdrawable | Price see price list   |
|--------------------------------------------------------------------------------------------------------------|------------------|-------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------|--------------|------------------------|
|                                                                                                              |                  |       | Overload releases                                                                 | Short-circuit releases                                                            |                                                                                   |                        |              |                        |
|                                                                                                              |                  |       |                                                                                   | Delayed                                                                           | Non-delayed                                                                       |                        |              |                        |
| $I_{cu} = I_{cs}$<br>kA                                                                                      | $I_n = I_u$<br>A |       | $I_r$<br>A                                                                        | $I_{sd} = I_r \times \dots$                                                       | $I_i = I_n \times \dots$                                                          |                        |              |                        |
|                                                                                                              |                  |       |  |  |  |                        |              |                        |
| Circuit-breaker with universal protection                                                                    |                  |       |                                                                                   |                                                                                   |                                                                                   |                        |              |                        |
| Including rear connection main terminals and secondary terminal blocks according to ordered breaker options. |                  |       |                                                                                   |                                                                                   |                                                                                   |                        |              |                        |
| 85                                                                                                           | 800              | IZM32 | 320 – 800                                                                         | 2 - 10                                                                            | 2 - 10, OFF                                                                       | IZM32N3-U08F<br>123955 |              | IZM32N3-U08W<br>123665 |
|                                                                                                              | 1000             |       | 400 – 1000                                                                        |                                                                                   |                                                                                   | IZM32N3-U10F<br>123956 |              | IZM32N3-U10W<br>123666 |
|                                                                                                              | 1250             |       | 500 – 1250                                                                        |                                                                                   |                                                                                   | IZM32N3-U12F<br>123957 |              | IZM32N3-U12W<br>123667 |
|                                                                                                              | 1600             |       | 640 – 1600                                                                        |                                                                                   |                                                                                   | IZM32N3-U16F<br>123958 |              | IZM32N3-U16W<br>123668 |
|                                                                                                              | 2000             |       | 800 – 2000                                                                        |                                                                                   |                                                                                   | IZM32N3-U20F<br>123959 |              | IZM32N3-U20W<br>123669 |
|                                                                                                              | 2500             |       | 1000 – 2500                                                                       |                                                                                   |                                                                                   | IZM32N3-U25F<br>123960 |              | IZM32N3-U25W<br>123670 |
|                                                                                                              | 3200             |       | 1280 – 3200                                                                       |                                                                                   |                                                                                   | IZM32N3-U32F<br>123961 |              | IZM32N3-U32W<br>123671 |
|                                                                                                              | 4000             | IZM40 | 1600 – 4000                                                                       |                                                                                   |                                                                                   | IZM40N3-U40F<br>124307 |              | IZM40N3-U40W<br>124197 |
|                                                                                                              | 4000             | IZM63 | 1600 – 4000                                                                       |                                                                                   |                                                                                   | IZM63N3-U40F<br>124308 |              | IZM63N3-U40W<br>124198 |
|                                                                                                              | 5000             |       | 2000 – 5000                                                                       |                                                                                   |                                                                                   | IZM63N3-U50F<br>124309 |              | IZM63N3-U50W<br>124199 |
|                                                                                                              | 6300             |       | 2520 – 6300                                                                       |                                                                                   |                                                                                   | IZM63N3-U63F<br>124310 |              | IZM63N3-U63W<br>124200 |
|                                                                                                              |                  |       |                                                                                   |                                                                                   |                                                                                   |                        |              |                        |
| 100                                                                                                          | 800              | IZM32 | 320 – 800                                                                         |                                                                                   |                                                                                   | IZM32H3-U08F<br>123995 |              | IZM32H3-U08W<br>123705 |
|                                                                                                              | 1000             |       | 400 – 1000                                                                        |                                                                                   |                                                                                   | IZM32H3-U10F<br>123996 |              | IZM32H3-U10W<br>123706 |
|                                                                                                              | 1250             |       | 500 – 1250                                                                        |                                                                                   |                                                                                   | IZM32H3-U12F<br>123997 |              | IZM32H3-U12W<br>123707 |
|                                                                                                              | 1600             |       | 640 – 1600                                                                        |                                                                                   |                                                                                   | IZM32H3-U16F<br>123998 |              | IZM32H3-U16W<br>123708 |
|                                                                                                              | 2000             |       | 800 – 2000                                                                        |                                                                                   |                                                                                   | IZM32H3-U20F<br>123999 |              | IZM32H3-U20W<br>123709 |
|                                                                                                              | 2500             |       | 1000 – 2500                                                                       |                                                                                   |                                                                                   | IZM32H3-U25F<br>124000 |              | IZM32H3-U25W<br>123710 |
|                                                                                                              | 3200             |       | 1280 – 3200                                                                       |                                                                                   |                                                                                   | IZM32H3-U32F<br>124001 |              | IZM32H3-U32W<br>123711 |
|                                                                                                              | 4000             | IZM40 | 1600 – 4000                                                                       |                                                                                   |                                                                                   | IZM40H3-U40F<br>124327 |              | IZM40H3-U40W<br>124217 |
|                                                                                                              | 4000             | IZM63 | 1600 – 4000                                                                       |                                                                                   |                                                                                   | IZM63H3-U40F<br>124328 |              | IZM63H3-U40W<br>124218 |
|                                                                                                              | 5000             |       | 2000 – 5000                                                                       |                                                                                   |                                                                                   | IZM63H3-U50F<br>124329 |              | IZM63H3-U50W<br>124219 |
|                                                                                                              | 6300             |       | 2520 – 6300                                                                       |                                                                                   |                                                                                   | IZM63H3-U63F<br>124330 |              | IZM63H3-U63W<br>124220 |
|                                                                                                              |                  |       |                                                                                   |                                                                                   |                                                                                   |                        |              |                        |

| IZM26                                                                                                        |                  |       |                   |                             |                          | Moeller NK1230-1187en   |                        | http://catalog.moeller.net               |                        |  |
|--------------------------------------------------------------------------------------------------------------|------------------|-------|-------------------|-----------------------------|--------------------------|-------------------------|------------------------|------------------------------------------|------------------------|--|
| Switching capacity                                                                                           | Rated current    | Size  | Setting range     |                             |                          | fixed                   | Price                  | withdrawable                             | Price                  |  |
|                                                                                                              |                  |       | Overload releases | Short-circuit releases      |                          |                         |                        |                                          |                        |  |
|                                                                                                              |                  |       |                   | Delayed                     | Non-delayed              |                         |                        |                                          |                        |  |
| $I_{cu} = I_{cs}$<br>kA                                                                                      | $I_n = I_u$<br>A |       | $I_r$<br>A        | $I_{sd} = I_r \times \dots$ | $I_i = I_n \times \dots$ | Part no.<br>Article no. | see<br>price list      | Part no.<br>Article no.                  | see<br>price list      |  |
|                                                                                                              |                  |       |                   |                             |                          |                         |                        | Cassette needs to be ordered separately. |                        |  |
| Circuit-breaker for universal protection with power measurement                                              |                  |       |                   |                             |                          |                         |                        |                                          |                        |  |
| Including rear connection main terminals and secondary terminal blocks according to ordered breaker options. |                  |       |                   |                             |                          |                         |                        |                                          |                        |  |
| 50                                                                                                           | 800              | IZM20 | 320 – 800         | 2 - 10                      | 2 - 10, OFF              | IZM20B3-P08F<br>123418  |                        | IZM20B3-P08W<br>123178                   |                        |  |
|                                                                                                              | 1000             |       | 400 – 1000        |                             |                          | IZM20B3-P10F<br>123419  |                        | IZM20B3-P10W<br>123179                   |                        |  |
|                                                                                                              | 1250             |       | 500 – 1250        |                             |                          | IZM20B3-P12F<br>123420  |                        | IZM20B3-P12W<br>123180                   |                        |  |
|                                                                                                              | 1600             |       | 640 – 1600        |                             |                          | IZM20B3-P16F<br>123421  |                        | IZM20B3-P16W<br>123181                   |                        |  |
|                                                                                                              | 2000             |       | 800 – 2000        |                             |                          | IZM20B3-P20F<br>123422  |                        | IZM20B3-P20W<br>123182                   |                        |  |
| 65                                                                                                           | 800              | IZM20 | 320 – 800         | 2 - 10                      | 2 - 10, OFF              | IZM20N3-P08F<br>123448  |                        | IZM20N3-P08W<br>123208                   |                        |  |
|                                                                                                              | 1000             |       | 400 – 1000        |                             |                          | IZM20N3-P10F<br>123449  |                        | IZM20N3-P10W<br>123209                   |                        |  |
|                                                                                                              | 1250             |       | 500 – 1250        |                             |                          | IZM20N3-P12F<br>123450  |                        | IZM20N3-P12W<br>123210                   |                        |  |
|                                                                                                              | 1600             |       | 640 – 1600        |                             |                          | IZM20N3-P16F<br>123451  |                        | IZM20N3-P16W<br>123211                   |                        |  |
|                                                                                                              | 2000             |       | 800 – 2000        |                             |                          | IZM20N3-P20F<br>123452  |                        | IZM20N3-P20W<br>123212                   |                        |  |
|                                                                                                              | 800              | IZM32 | 320 – 800         |                             |                          | IZM32B3-P08F<br>123923  |                        | IZM32B3-P08W<br>123633                   |                        |  |
|                                                                                                              | 1000             |       | 400 – 1000        |                             |                          | IZM32B3-P10F<br>123924  |                        | IZM32B3-P10W<br>123634                   |                        |  |
|                                                                                                              | 1250             |       | 500 – 1250        |                             |                          | IZM32B3-P12F<br>123925  |                        | IZM32B3-P12W<br>123635                   |                        |  |
|                                                                                                              | 1600             |       | 640 – 1600        |                             |                          | IZM32B3-P16F<br>123926  |                        | IZM32B3-P16W<br>123636                   |                        |  |
|                                                                                                              | 2000             |       | 800 – 2000        |                             |                          | IZM32B3-P20F<br>123927  |                        | IZM32B3-P20W<br>123637                   |                        |  |
|                                                                                                              | 2500             |       | 1000 – 2500       |                             |                          | IZM32B3-P25F<br>123928  |                        | IZM32B3-P25W<br>123638                   |                        |  |
|                                                                                                              | 3200             |       | 1280 – 3200       |                             |                          | IZM32B3-P32F<br>123929  |                        | IZM32B3-P32W<br>123639                   |                        |  |
| 85                                                                                                           | 800              | IZM32 | 320 – 800         |                             |                          | IZM32N3-P08F<br>123963  |                        | IZM32N3-P08W<br>123673                   |                        |  |
|                                                                                                              | 1000             |       | 400 – 1000        |                             |                          | IZM32N3-P10F<br>123964  |                        | IZM32N3-P10W<br>123674                   |                        |  |
|                                                                                                              | 1250             |       | 500 – 1250        |                             |                          | IZM32N3-P12F<br>123965  |                        | IZM32N3-P12W<br>123675                   |                        |  |
|                                                                                                              | 1600             |       | 640 – 1600        |                             |                          | IZM32N3-P16F<br>123966  |                        | IZM32N3-P16W<br>123676                   |                        |  |
|                                                                                                              | 2000             |       | 800 – 2000        |                             |                          | IZM32N3-P20F<br>123967  |                        | IZM32N3-P20W<br>123677                   |                        |  |
|                                                                                                              | 2500             | IZM40 | 1000 – 2500       |                             |                          | IZM32N3-P25F<br>123968  |                        | IZM32N3-P25W<br>123678                   |                        |  |
|                                                                                                              | 3200             |       | 1280 – 3200       |                             |                          | IZM32N3-P32F<br>123969  |                        | IZM32N3-P32W<br>123679                   |                        |  |
|                                                                                                              | 4000             | IZM40 | 1600 – 4000       |                             |                          | IZM40N3-P40F<br>124311  |                        | IZM40N3-P40W<br>124201                   |                        |  |
|                                                                                                              | 4000             |       | IZM63             |                             |                          | 1600 – 4000             | IZM63N3-P40F<br>124312 |                                          | IZM63N3-P40W<br>124202 |  |
|                                                                                                              | 5000             |       |                   |                             |                          | 2000 – 5000             | IZM63N3-P50F<br>124313 |                                          | IZM63N3-P50W<br>124203 |  |
|                                                                                                              | 6300             |       |                   |                             |                          | 2520 – 6300             | IZM63N3-P63F<br>124314 |                                          | IZM63N3-P63W<br>124204 |  |

## Air circuit-breakers, 3-pole/Air circuit-breakers 1100 V, 3-pole

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IZM26

| Switching capacity                                                                                           | Rated current    | Size  | Setting range                                                                     |                                                                                   | fixed<br>Part no.<br>Article no.                                                  | Price<br>see price list | withdrawable<br>Part no.<br>Article no. | Price<br>see price list |
|--------------------------------------------------------------------------------------------------------------|------------------|-------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------|-----------------------------------------|-------------------------|
|                                                                                                              |                  |       | Overload releases                                                                 | Short-circuit releases                                                            |                                                                                   |                         |                                         |                         |
|                                                                                                              |                  |       |                                                                                   | Delayed                                                                           | Non-delayed                                                                       |                         |                                         |                         |
| $I_{cu} = I_{cs}$<br>kA                                                                                      | $I_n = I_u$<br>A |       | $I_r$<br>A                                                                        | $I_{sd} = I_r \times \dots$                                                       | $I_i = I_n \times \dots$                                                          |                         |                                         |                         |
|                                                                                                              |                  |       |  |  |  |                         |                                         |                         |
| <b>Circuit-breaker for universal protection with power measurement</b>                                       |                  |       |                                                                                   |                                                                                   |                                                                                   |                         |                                         |                         |
| Including rear connection main terminals and secondary terminal blocks according to ordered breaker options. |                  |       |                                                                                   |                                                                                   |                                                                                   |                         |                                         |                         |
| 100                                                                                                          | 800              | IZM32 | 320 – 800                                                                         | 2 - 10                                                                            | 2 - 10, OFF                                                                       | IZM32H3-P08F<br>124003  | IZM32H3-P08W<br>123713                  |                         |
|                                                                                                              | 1000             |       | 400 – 1000                                                                        |                                                                                   |                                                                                   | IZM32H3-P10F<br>124004  | IZM32H3-P10W<br>123714                  |                         |
|                                                                                                              | 1250             |       | 500 – 1250                                                                        |                                                                                   |                                                                                   | IZM32H3-P12F<br>124005  | IZM32H3-P12W<br>123715                  |                         |
|                                                                                                              | 1600             |       | 640 – 1600                                                                        |                                                                                   |                                                                                   | IZM32H3-P16F<br>124006  | IZM32H3-P16W<br>123716                  |                         |
|                                                                                                              | 2000             |       | 800 – 2000                                                                        |                                                                                   |                                                                                   | IZM32H3-P20F<br>124007  | IZM32H3-P20W<br>123717                  |                         |
|                                                                                                              | 2500             |       | 1000 – 2500                                                                       |                                                                                   |                                                                                   | IZM32H3-P25F<br>124008  | IZM32H3-P25W<br>123718                  |                         |
|                                                                                                              | 3200             |       | 1280 – 3200                                                                       |                                                                                   |                                                                                   | IZM32H3-P32F<br>124009  | IZM32H3-P32W<br>123719                  |                         |
|                                                                                                              | 4000             | IZM40 | 1600 – 4000                                                                       |                                                                                   |                                                                                   | IZM40H3-P40F<br>124331  | IZM40H3-P40W<br>124221                  |                         |
|                                                                                                              | 4000             | IZM63 | 1600 – 4000                                                                       |                                                                                   |                                                                                   | IZM63H3-P40F<br>124332  | IZM63H3-P40W<br>124222                  |                         |
|                                                                                                              | 5000             |       | 2000 – 5000                                                                       |                                                                                   |                                                                                   | IZM63H3-P50F<br>124333  | IZM63H3-P50W<br>124223                  |                         |
|                                                                                                              | 6300             |       | 2520 – 6300                                                                       |                                                                                   |                                                                                   | IZM63H3-P63F<br>124334  | IZM63H3-P63W<br>124224                  |                         |

| Switching capacity                                                                                           | Rated current    | Setting range | Overload releases                                                                   | Short-circuit releases                                                              |                                                                                     | fixed<br>Part no.<br>Article no. | Price<br>see price list | withdrawable<br>Part no.<br>Article no. | Price<br>see price list |
|--------------------------------------------------------------------------------------------------------------|------------------|---------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------|-------------------------|-----------------------------------------|-------------------------|
|                                                                                                              |                  |               |                                                                                     | Delayed                                                                             | Non-delayed                                                                         |                                  |                         |                                         |                         |
| $I_{cu} = I_{cs}$<br>kA                                                                                      | $I_n = I_u$<br>A | $I_r$<br>A    |                                                                                     | $I_{sd} = I_r \times \dots$                                                         | $I_i = I_n \times \dots$                                                            |                                  |                         |                                         |                         |
|                                                                                                              |                  |               |  |  |  |                                  |                         |                                         |                         |
| <b>IZM26 for 1100 V</b>                                                                                      |                  |               |                                                                                     |                                                                                     |                                                                                     |                                  |                         |                                         |                         |
| Including rear connection main terminals and secondary terminal blocks according to ordered breaker options. |                  |               |                                                                                     |                                                                                     |                                                                                     |                                  |                         |                                         |                         |
| <b>Circuit-breaker for system protection</b>                                                                 |                  |               |                                                                                     |                                                                                     |                                                                                     |                                  |                         |                                         |                         |
| 25                                                                                                           | 3200             | 1280 – 3200   | –                                                                                   | 2 - 10                                                                              |                                                                                     | IZM32S3-A32F-1100V<br>123725     |                         | IZM32S3-A32W-1100V<br>123721            |                         |
| <b>Circuit-breaker for selective operation</b>                                                               |                  |               |                                                                                     |                                                                                     |                                                                                     |                                  |                         |                                         |                         |
| 25                                                                                                           | 3200             | 1280 – 3200   |                                                                                     | 2 - 10                                                                              | 2 - 10, OFF                                                                         | IZM32S3-V32F-1100V<br>123726     |                         | IZM32S3-V32W-1100V<br>123722            |                         |
| <b>Circuit-breaker with universal protection</b>                                                             |                  |               |                                                                                     |                                                                                     |                                                                                     |                                  |                         |                                         |                         |
| 25                                                                                                           | 3200             | 1280 – 3200   |                                                                                     | 2 - 10                                                                              | 2 - 10, OFF                                                                         | IZM32S3-U32F-1100V<br>123727     |                         | IZM32S3-U32W-1100V<br>123723            |                         |
| <b>Circuit-breaker for universal protection with power measurement</b>                                       |                  |               |                                                                                     |                                                                                     |                                                                                     |                                  |                         |                                         |                         |
| 25                                                                                                           | 3200             | 1280 – 3200   |                                                                                     | 2 - 10                                                                              | 2 - 10, OFF                                                                         | IZM32S3-P32F-1100V<br>123749     |                         | IZM32S3-P32W-1100V<br>123724            |                         |

IZM26

| Switching capacity                                                                                           | Rated current    | Size                                                                              | Setting range                                                                     |                                                                                   | fixed                   | Price see price list   | withdrawable                             | Price see price list   |                        |
|--------------------------------------------------------------------------------------------------------------|------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------|------------------------|------------------------------------------|------------------------|------------------------|
|                                                                                                              |                  |                                                                                   | Overload releases                                                                 | Short-circuit releases                                                            |                         |                        |                                          |                        |                        |
|                                                                                                              |                  |                                                                                   |                                                                                   | Delayed                                                                           |                         |                        |                                          |                        | Non-delayed            |
| $I_{cu} = I_{cs}$<br>kA                                                                                      | $I_n = I_u$<br>A | $I_r$<br>A                                                                        | $I_{sd} = I_r \times \dots$                                                       | $I_i = I_n \times \dots$                                                          | Part no.<br>Article no. |                        | Part no.<br>Article no.                  |                        |                        |
|                                                                                                              |                  |  |  |  |                         |                        | Cassette needs to be ordered separately. |                        |                        |
| Circuit-breaker for system protection                                                                        |                  |                                                                                   |                                                                                   |                                                                                   |                         |                        |                                          |                        |                        |
| Including rear connection main terminals and secondary terminal blocks according to ordered breaker options. |                  |                                                                                   |                                                                                   |                                                                                   |                         |                        |                                          |                        |                        |
| 50                                                                                                           | 800              | IZM20                                                                             | 320 – 800                                                                         | –                                                                                 | 2 - 10                  | IZM20B4-A08F<br>123520 |                                          | IZM20B4-A08W<br>123280 |                        |
|                                                                                                              | 1000             |                                                                                   | 400 – 1000                                                                        |                                                                                   |                         | IZM20B4-A10F<br>123521 |                                          | IZM20B4-A10W<br>123281 |                        |
|                                                                                                              | 1250             |                                                                                   | 500 – 1250                                                                        |                                                                                   |                         | IZM20B4-A12F<br>123522 |                                          | IZM20B4-A12W<br>123282 |                        |
|                                                                                                              | 1600             |                                                                                   | 640 – 1600                                                                        |                                                                                   |                         | IZM20B4-A16F<br>123523 |                                          | IZM20B4-A16W<br>123283 |                        |
|                                                                                                              | 2000             |                                                                                   | 800 – 2000                                                                        |                                                                                   |                         | IZM20B4-A20F<br>123524 |                                          | IZM20B4-A20W<br>123284 |                        |
| 65                                                                                                           | 800              | IZM20                                                                             | 320 – 800                                                                         |                                                                                   |                         | IZM20N4-A08F<br>123550 |                                          | IZM20N4-A08W<br>123310 |                        |
|                                                                                                              | 1000             |                                                                                   | 400 – 1000                                                                        |                                                                                   |                         | IZM20N4-A10F<br>123551 |                                          | IZM20N4-A10W<br>123311 |                        |
|                                                                                                              | 1250             |                                                                                   | 500 – 1250                                                                        |                                                                                   |                         | IZM20N4-A12F<br>123552 |                                          | IZM20N4-A12W<br>123312 |                        |
|                                                                                                              | 1600             |                                                                                   | 640 – 1600                                                                        |                                                                                   |                         | IZM20N4-A16F<br>123553 |                                          | IZM20N4-A16W<br>123313 |                        |
|                                                                                                              | 2000             |                                                                                   | 800 – 2000                                                                        |                                                                                   |                         | IZM20N4-A20F<br>123554 |                                          | IZM20N4-A20W<br>123314 |                        |
|                                                                                                              | 800              | IZM32                                                                             | 320 – 800                                                                         |                                                                                   |                         | IZM32B4-A08F<br>124044 |                                          | IZM32B4-A08W<br>123754 |                        |
|                                                                                                              | 1000             |                                                                                   | 400 – 1000                                                                        |                                                                                   |                         | IZM32B4-A10F<br>124045 |                                          | IZM32B4-A10W<br>123755 |                        |
|                                                                                                              | 1250             |                                                                                   | 500 – 1250                                                                        |                                                                                   |                         | IZM32B4-A12F<br>124046 |                                          | IZM32B4-A12W<br>123756 |                        |
|                                                                                                              | 1600             |                                                                                   | 640 – 1600                                                                        |                                                                                   |                         | IZM32B4-A16F<br>124047 |                                          | IZM32B4-A16W<br>123757 |                        |
|                                                                                                              | 2000             |                                                                                   | 800 – 2000                                                                        |                                                                                   |                         | IZM32B4-A20F<br>124048 |                                          | IZM32B4-A20W<br>123758 |                        |
| 85                                                                                                           | 2500             | IZM32                                                                             | 1000 – 2500                                                                       |                                                                                   |                         | IZM32B4-A25F<br>124049 |                                          | IZM32B4-A25W<br>123759 |                        |
|                                                                                                              | 3200             |                                                                                   | 1280 – 3200                                                                       |                                                                                   |                         | IZM32B4-A32F<br>124050 |                                          | IZM32B4-A32W<br>123760 |                        |
|                                                                                                              | 800              |                                                                                   | IZM32N4                                                                           | 320 – 800                                                                         |                         |                        | IZM32N4-A08F<br>124084                   |                        | IZM32N4-A08W<br>123794 |
|                                                                                                              | 1000             |                                                                                   |                                                                                   | 400 – 1000                                                                        |                         |                        | IZM32N4-A10F<br>124085                   |                        | IZM32N4-A10W<br>123795 |
|                                                                                                              | 1250             |                                                                                   |                                                                                   | 500 – 1250                                                                        |                         |                        | IZM32N4-A12F<br>124086                   |                        | IZM32N4-A12W<br>123796 |
|                                                                                                              | 1600             | 640 – 1600                                                                        |                                                                                   |                                                                                   |                         | IZM32N4-A16F<br>124087 |                                          | IZM32N4-A16W<br>123797 |                        |
|                                                                                                              | 2000             | 800 – 2000                                                                        |                                                                                   |                                                                                   |                         | IZM32N4-A20F<br>124088 |                                          | IZM32N4-A20W<br>123798 |                        |
|                                                                                                              | 2500             | 1000 – 2500                                                                       |                                                                                   |                                                                                   |                         | IZM32N4-A25F<br>124089 |                                          | IZM32N4-A25W<br>123799 |                        |
|                                                                                                              | 3200             | 1280 – 3200                                                                       |                                                                                   |                                                                                   |                         | IZM32N4-A32F<br>124090 |                                          | IZM32N4-A32W<br>123800 |                        |
|                                                                                                              | 100              | 800                                                                               | IZM32H4                                                                           | 320 – 800                                                                         |                         |                        | IZM32H4-A08F<br>124124                   |                        | IZM32H4-A08W<br>123834 |
| 1000                                                                                                         |                  | 400 – 1000                                                                        |                                                                                   |                                                                                   |                         | IZM32H4-A10F<br>124125 |                                          | IZM32H4-A10W<br>123835 |                        |
| 1250                                                                                                         |                  | 500 – 1250                                                                        |                                                                                   |                                                                                   |                         | IZM32H4-A12F<br>124126 |                                          | IZM32H4-A12W<br>123836 |                        |
| 1600                                                                                                         |                  | 640 – 1600                                                                        |                                                                                   |                                                                                   |                         | IZM32H4-A16F<br>124127 |                                          | IZM32H4-A16W<br>123837 |                        |
| 2000                                                                                                         |                  | 800 – 2000                                                                        |                                                                                   |                                                                                   |                         | IZM32H4-A20F<br>124128 |                                          | IZM32H4-A20W<br>123838 |                        |
| 2500                                                                                                         |                  | 1000 – 2500                                                                       |                                                                                   |                                                                                   |                         | IZM32H4-A25F<br>124129 |                                          | IZM32H4-A25W<br>123839 |                        |
| 3200                                                                                                         |                  | 1280 – 3200                                                                       |                                                                                   |                                                                                   |                         | IZM32H4-A32F<br>124130 |                                          | IZM32H4-A32W<br>123840 |                        |

| Switching capacity                                                                                           | Rated current    | Size                   | Setting range                                                                     |                                                                                   | fixed                                                                             | Price see price list   | withdrawable                             | Price see price list   |             |
|--------------------------------------------------------------------------------------------------------------|------------------|------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------|------------------------------------------|------------------------|-------------|
|                                                                                                              |                  |                        | Overload releases                                                                 | Short-circuit releases                                                            |                                                                                   |                        |                                          |                        |             |
|                                                                                                              |                  |                        |                                                                                   | Delayed                                                                           |                                                                                   |                        |                                          |                        | Non-delayed |
| $I_{cu} = I_{cs}$<br>kA                                                                                      | $I_n = I_u$<br>A |                        | $I_r$<br>A                                                                        | $I_{sd} = I_r \times \dots$                                                       | $I_i = I_n \times \dots$                                                          |                        | Cassette needs to be ordered separately. |                        |             |
|                                                                                                              |                  |                        |  |  |  |                        |                                          |                        |             |
| Circuit-breaker for selective operation                                                                      |                  |                        |                                                                                   |                                                                                   |                                                                                   |                        |                                          |                        |             |
| Including rear connection main terminals and secondary terminal blocks according to ordered breaker options. |                  |                        |                                                                                   |                                                                                   |                                                                                   |                        |                                          |                        |             |
| 50                                                                                                           | 800              | IZM20                  | 320 – 800                                                                         | 2 - 10                                                                            | 2 - 10, OFF                                                                       | IZM20B4-V08F<br>123526 | IZM20B4-V08W<br>123286                   |                        |             |
|                                                                                                              | 1000             |                        | 400 – 1000                                                                        |                                                                                   |                                                                                   | IZM20B4-V10F<br>123527 | IZM20B4-V10W<br>123287                   |                        |             |
|                                                                                                              | 1250             |                        | 500 – 1250                                                                        |                                                                                   |                                                                                   | IZM20B4-V12F<br>123528 | IZM20B4-V12W<br>123288                   |                        |             |
|                                                                                                              | 1600             |                        | 640 – 1600                                                                        |                                                                                   |                                                                                   | IZM20B4-V16F<br>123529 | IZM20B4-V16W<br>123289                   |                        |             |
|                                                                                                              | 2000             |                        | 800 – 2000                                                                        |                                                                                   |                                                                                   | IZM20B4-V20F<br>123530 | IZM20B4-V20W<br>123290                   |                        |             |
| 65                                                                                                           | 800              | IZM20                  | 320 – 800                                                                         | 2 - 10, OFF                                                                       |                                                                                   | IZM20N4-V08F<br>123556 | IZM20N4-V08W<br>123316                   |                        |             |
|                                                                                                              | 1000             |                        | 400 – 1000                                                                        |                                                                                   |                                                                                   | IZM20N4-V10F<br>123557 | IZM20N4-V10W<br>123317                   |                        |             |
|                                                                                                              | 1250             |                        | 500 – 1250                                                                        |                                                                                   |                                                                                   | IZM20N4-V12F<br>123558 | IZM20N4-V12W<br>123318                   |                        |             |
|                                                                                                              | 1600             |                        | 640 – 1600                                                                        |                                                                                   |                                                                                   | IZM20N4-V16F<br>123559 | IZM20N4-V16W<br>123319                   |                        |             |
|                                                                                                              | 2000             |                        | 800 – 2000                                                                        |                                                                                   |                                                                                   | IZM20N4-V20F<br>123560 | IZM20N4-V20W<br>123320                   |                        |             |
|                                                                                                              | 800              | IZM32                  | 320 – 800                                                                         |                                                                                   |                                                                                   | IZM32B4-V08F<br>124052 | IZM32B4-V08W<br>123762                   |                        |             |
|                                                                                                              | 1000             |                        | 400 – 1000                                                                        |                                                                                   |                                                                                   | IZM32B4-V10F<br>124053 | IZM32B4-V10W<br>123763                   |                        |             |
|                                                                                                              | 1250             |                        | 500 – 1250                                                                        |                                                                                   |                                                                                   | IZM32B4-V12F<br>124054 | IZM32B4-V12W<br>123764                   |                        |             |
|                                                                                                              | 1600             |                        | 640 – 1600                                                                        |                                                                                   |                                                                                   | IZM32B4-V16F<br>124055 | IZM32B4-V16W<br>123765                   |                        |             |
|                                                                                                              | 2000             |                        | 800 – 2000                                                                        |                                                                                   |                                                                                   | IZM32B4-V20F<br>124056 | IZM32B4-V20W<br>123766                   |                        |             |
|                                                                                                              | 2500             |                        | 1000 – 2500                                                                       |                                                                                   |                                                                                   | IZM32B4-V25F<br>124057 | IZM32B4-V25W<br>123767                   |                        |             |
|                                                                                                              | 3200             |                        | 1280 – 3200                                                                       |                                                                                   |                                                                                   | IZM32B4-V32F<br>124058 | IZM32B4-V32W<br>123768                   |                        |             |
|                                                                                                              | 800              |                        | IZM32N4                                                                           |                                                                                   |                                                                                   | 320 – 800              | IZM32N4-V08F<br>124092                   | IZM32N4-V08W<br>123802 |             |
| 1000                                                                                                         | 400 – 1000       | IZM32N4-V10F<br>124093 |                                                                                   |                                                                                   |                                                                                   | IZM32N4-V10W<br>123803 |                                          |                        |             |
| 1250                                                                                                         | 500 – 1250       | IZM32N4-V12F<br>124094 |                                                                                   |                                                                                   |                                                                                   | IZM32N4-V12W<br>123804 |                                          |                        |             |
| 1600                                                                                                         | 640 – 1600       | IZM32N4-V16F<br>124095 |                                                                                   |                                                                                   |                                                                                   | IZM32N4-V16W<br>123805 |                                          |                        |             |
| 2000                                                                                                         | 800 – 2000       | IZM32N4-V20F<br>124096 |                                                                                   |                                                                                   |                                                                                   | IZM32N4-V20W<br>123806 |                                          |                        |             |
| 85                                                                                                           | 2500             | IZM32N4                | 1000 – 2500                                                                       |                                                                                   |                                                                                   | IZM32N4-V25F<br>124097 | IZM32N4-V25W<br>123807                   |                        |             |
|                                                                                                              | 3200             |                        | 1280 – 3200                                                                       |                                                                                   |                                                                                   | IZM32N4-V32F<br>124098 | IZM32N4-V32W<br>123808                   |                        |             |
|                                                                                                              | 4000             | IZM40                  | 1600 – 4000                                                                       |                                                                                   |                                                                                   | IZM40N4-V40F<br>124358 | IZM40N4-V40W<br>124248                   |                        |             |
|                                                                                                              | 4000             |                        | 1600 – 4000                                                                       |                                                                                   |                                                                                   | IZM63N4-V40F<br>124359 | IZM63N4-V40W<br>124249                   |                        |             |
|                                                                                                              | 5000             | IZM63                  | 2000 – 5000                                                                       |                                                                                   |                                                                                   | IZM63N4-V50F<br>124360 | IZM63N4-V50W<br>124250                   |                        |             |
|                                                                                                              | 6300             |                        | 2520 – 6300                                                                       |                                                                                   |                                                                                   | IZM63N4-V63F<br>124361 | IZM63N4-V63W<br>124251                   |                        |             |

| IZM26                                                                                                        |                  |       |                                                                                   |                                                                                   |                          | Moeller NK1230-1187en  |                                          | http://catalog.moeller.ne |                      |                |                      |                |             |
|--------------------------------------------------------------------------------------------------------------|------------------|-------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------|------------------------|------------------------------------------|---------------------------|----------------------|----------------|----------------------|----------------|-------------|
| Switching capacity                                                                                           | Rated current    | Size  | Setting range                                                                     |                                                                                   | fixed                    | Price                  | withdrawable                             | Price                     |                      |                |                      |                |             |
|                                                                                                              |                  |       | Overload releases                                                                 | Short-circuit releases                                                            |                          |                        |                                          |                           | Part no. Article no. | see price list | Part no. Article no. | see price list |             |
|                                                                                                              |                  |       |                                                                                   | Delayed                                                                           |                          |                        |                                          |                           |                      |                |                      |                | Non-delayed |
| $I_{cu} = I_{cs}$<br>kA                                                                                      | $I_n = I_u$<br>A |       | $I_r$<br>A                                                                        | $I_{sd} = I_r \times \dots$                                                       | $I_i = I_n \times \dots$ |                        | Cassette needs to be ordered separately. |                           |                      |                |                      |                |             |
|                             |                  |       |  |  |                          |                        |                                          |                           |                      |                |                      |                |             |
| Circuit-breaker for selective operation                                                                      |                  |       |                                                                                   |                                                                                   |                          |                        |                                          |                           |                      |                |                      |                |             |
| Including rear connection main terminals and secondary terminal blocks according to ordered breaker options. |                  |       |                                                                                   |                                                                                   |                          |                        |                                          |                           |                      |                |                      |                |             |
| 100                                                                                                          | 800              | IZM32 | 320 – 800                                                                         | 2 - 10                                                                            | 2 - 10, OFF              | IZM32H4-V08F<br>124132 | IZM32H4-V08W<br>123842                   |                           |                      |                |                      |                |             |
|                                                                                                              | 1000             |       | 400 – 1000                                                                        |                                                                                   |                          | IZM32H4-V10F<br>124133 | IZM32H4-V10W<br>123843                   |                           |                      |                |                      |                |             |
|                                                                                                              | 1250             |       | 500 – 1250                                                                        |                                                                                   |                          | IZM32H4-V12F<br>124134 | IZM32H4-V12W<br>123844                   |                           |                      |                |                      |                |             |
|                                                                                                              | 1600             |       | 640 – 1600                                                                        |                                                                                   |                          | IZM32H4-V16F<br>124135 | IZM32H4-V16W<br>123845                   |                           |                      |                |                      |                |             |
|                                                                                                              | 2000             |       | 800 – 2000                                                                        |                                                                                   |                          | IZM32H4-V20F<br>124136 | IZM32H4-V20W<br>123846                   |                           |                      |                |                      |                |             |
|                                                                                                              | 2500             |       | 1000 – 2500                                                                       |                                                                                   |                          | IZM32H4-V25F<br>124137 | IZM32H4-V25W<br>123847                   |                           |                      |                |                      |                |             |
|                                                                                                              | 3200             |       | 1280 – 3200                                                                       |                                                                                   |                          | IZM32H4-V32F<br>124138 | IZM32H4-V32W<br>123848                   |                           |                      |                |                      |                |             |
|                                                                                                              | 4000             | IZM40 | 1600 – 4000                                                                       |                                                                                   |                          | IZM40H4-V40F<br>124378 | IZM40H4-V40W<br>124268                   |                           |                      |                |                      |                |             |
|                                                                                                              | 4000             | IZM63 | 1600 – 4000                                                                       |                                                                                   |                          | IZM63H4-V40F<br>124379 | IZM63H4-V40W<br>124269                   |                           |                      |                |                      |                |             |
|                                                                                                              | 5000             |       | 2000 – 5000                                                                       |                                                                                   |                          | IZM63H4-V50F<br>124380 | IZM63H4-V50W<br>124270                   |                           |                      |                |                      |                |             |
|                                                                                                              | 6300             |       | 2520 – 6300                                                                       |                                                                                   |                          | IZM63H4-V63F<br>124381 | IZM63H4-V63W<br>124271                   |                           |                      |                |                      |                |             |
| Circuit-breaker with universal protection                                                                    |                  |       |                                                                                   |                                                                                   |                          |                        |                                          |                           |                      |                |                      |                |             |
| Including rear connection main terminals and secondary terminal blocks according to ordered breaker options. |                  |       |                                                                                   |                                                                                   |                          |                        |                                          |                           |                      |                |                      |                |             |
| 50                                                                                                           | 800              | IZM20 | 320 – 800                                                                         | 2 - 10                                                                            | 2 - 10, OFF              | IZM20B4-U08F<br>123532 | IZM20B4-U08W<br>123292                   |                           |                      |                |                      |                |             |
|                                                                                                              | 1000             |       | 400 – 1000                                                                        |                                                                                   |                          | IZM20B4-U10F<br>123533 | IZM20B4-U10W<br>123293                   |                           |                      |                |                      |                |             |
|                                                                                                              | 1250             |       | 500 – 1250                                                                        |                                                                                   |                          | IZM20B4-U12F<br>123534 | IZM20B4-U12W<br>123294                   |                           |                      |                |                      |                |             |
|                                                                                                              | 1600             |       | 640 – 1600                                                                        |                                                                                   |                          | IZM20B4-U16F<br>123535 | IZM20B4-U16W<br>123295                   |                           |                      |                |                      |                |             |
|                                                                                                              | 2000             |       | 800 – 2000                                                                        |                                                                                   |                          | IZM20B4-U20F<br>123536 | IZM20B4-U20W<br>123296                   |                           |                      |                |                      |                |             |
| 65                                                                                                           | 800              |       | 320 – 800                                                                         |                                                                                   |                          | IZM20N4-U08F<br>123562 | IZM20N4-U08W<br>123322                   |                           |                      |                |                      |                |             |
|                                                                                                              | 1000             |       | 400 – 1000                                                                        |                                                                                   |                          | IZM20N4-U10F<br>123563 | IZM20N4-U10W<br>123323                   |                           |                      |                |                      |                |             |
|                                                                                                              | 1250             |       | 500 – 1250                                                                        |                                                                                   |                          | IZM20N4-U12F<br>123564 | IZM20N4-U12W<br>123324                   |                           |                      |                |                      |                |             |
|                                                                                                              | 1600             |       | 640 – 1600                                                                        |                                                                                   |                          | IZM20N4-U16F<br>123565 | IZM20N4-U16W<br>123325                   |                           |                      |                |                      |                |             |
|                                                                                                              | 2000             |       | 800 – 2000                                                                        |                                                                                   |                          | IZM20N4-U20F<br>123566 | IZM20N4-U20W<br>123326                   |                           |                      |                |                      |                |             |
|                                                                                                              | 800              | IZM32 | 320 – 800                                                                         |                                                                                   |                          | IZM32B4-U08F<br>124060 | IZM32B4-U08W<br>123770                   |                           |                      |                |                      |                |             |
|                                                                                                              | 1000             |       | 400 – 1000                                                                        |                                                                                   |                          | IZM32B4-U10F<br>124061 | IZM32B4-U10W<br>123771                   |                           |                      |                |                      |                |             |
|                                                                                                              | 1250             |       | 500 – 1250                                                                        |                                                                                   |                          | IZM32B4-U12F<br>124062 | IZM32B4-U12W<br>123772                   |                           |                      |                |                      |                |             |
|                                                                                                              | 1600             |       | 640 – 1600                                                                        |                                                                                   |                          | IZM32B4-U16F<br>124063 | IZM32B4-U16W<br>123773                   |                           |                      |                |                      |                |             |
|                                                                                                              | 2000             |       | 800 – 2000                                                                        |                                                                                   |                          | IZM32B4-U20F<br>124064 | IZM32B4-U20W<br>123774                   |                           |                      |                |                      |                |             |
|                                                                                                              | 2500             |       | 1000 – 2500                                                                       |                                                                                   |                          | IZM32B4-U25F<br>124065 | IZM32B4-U25W<br>123775                   |                           |                      |                |                      |                |             |
|                                                                                                              | 3200             |       | 1280 – 3200                                                                       |                                                                                   |                          | IZM32B4-U32F<br>124066 | IZM32B4-U32W<br>123776                   |                           |                      |                |                      |                |             |

| Switching capacity                                                                                           | Rated current    | Size  | Setting range                                                                     |                                                                                                                                                                     | fixed       | Price see price list   | withdrawable                             | Price see price list   |                      |
|--------------------------------------------------------------------------------------------------------------|------------------|-------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------|------------------------------------------|------------------------|----------------------|
|                                                                                                              |                  |       | Overload releases                                                                 | Short-circuit releases                                                                                                                                              |             |                        | Part no. Article no.                     |                        |                      |
|                                                                                                              |                  |       |                                                                                   | Delayed                                                                                                                                                             |             |                        | Non-delayed                              |                        | Part no. Article no. |
| $I_{cu} = I_{cs}$<br>kA                                                                                      | $I_n = I_u$<br>A |       | $I_r$<br>A                                                                        | $I_{sd} = I_r \times \dots$<br>$I_i = I_n \times \dots$                                                                                                             |             |                        | Cassette needs to be ordered separately. |                        |                      |
|                                                                                                              |                  |       |  |   |             |                        |                                          |                        |                      |
| Circuit-breaker with universal protection                                                                    |                  |       |                                                                                   |                                                                                                                                                                     |             |                        |                                          |                        |                      |
| Including rear connection main terminals and secondary terminal blocks according to ordered breaker options. |                  |       |                                                                                   |                                                                                                                                                                     |             |                        |                                          |                        |                      |
| 85                                                                                                           | 800              | IZM32 | 320 – 800                                                                         | 2 - 10                                                                                                                                                              | 2 - 10, OFF | IZM32N4-U08F<br>124100 | IZM32N4-U08W<br>123810                   |                        |                      |
|                                                                                                              | 1000             |       | 400 – 1000                                                                        |                                                                                                                                                                     |             | IZM32N4-U10F<br>124101 | IZM32N4-U10W<br>123811                   |                        |                      |
|                                                                                                              | 1250             |       | 500 – 1250                                                                        |                                                                                                                                                                     |             | IZM32N4-U12F<br>124102 | IZM32N4-U12W<br>123812                   |                        |                      |
|                                                                                                              | 1600             |       | 640 – 1600                                                                        |                                                                                                                                                                     |             | IZM32N4-U16F<br>124103 | IZM32N4-U16W<br>123813                   |                        |                      |
|                                                                                                              | 2000             |       | 800 – 2000                                                                        |                                                                                                                                                                     |             | IZM32N4-U20F<br>124104 | IZM32N4-U20W<br>123814                   |                        |                      |
|                                                                                                              | 2500             |       | 1000 – 2500                                                                       |                                                                                                                                                                     |             | IZM32N4-U25F<br>124105 | IZM32N4-U25W<br>123815                   |                        |                      |
|                                                                                                              | 3200             |       | 1280 – 3200                                                                       |                                                                                                                                                                     |             | IZM32N4-U32F<br>124106 | IZM32N4-U32W<br>123816                   |                        |                      |
|                                                                                                              | 4000             | IZM40 | 1600 – 4000                                                                       |                                                                                                                                                                     |             | IZM40N4-U40F<br>124362 | IZM40N4-U40W<br>124252                   |                        |                      |
|                                                                                                              | 4000             |       | IZM63                                                                             |                                                                                                                                                                     |             | 1600 – 4000            | IZM63N4-U40F<br>124363                   | IZM63N4-U40W<br>124253 |                      |
|                                                                                                              | 5000             |       |                                                                                   |                                                                                                                                                                     |             | 2000 – 5000            | IZM63N4-U50F<br>124364                   | IZM63N4-U50W<br>124254 |                      |
|                                                                                                              | 6300             |       |                                                                                   |                                                                                                                                                                     |             | 2520 – 6300            | IZM63N4-U63F<br>124365                   | IZM63N4-U63W<br>124255 |                      |
| 100                                                                                                          | 800              | IZM32 | 320 – 800                                                                         |                                                                                                                                                                     |             | IZM32H4-U08F<br>124140 | IZM32H4-U08W<br>123850                   |                        |                      |
|                                                                                                              | 1000             |       | 400 – 1000                                                                        |                                                                                                                                                                     |             | IZM32H4-U10F<br>124141 | IZM32H4-U10W<br>123851                   |                        |                      |
|                                                                                                              | 1250             |       | 500 – 1250                                                                        |                                                                                                                                                                     |             | IZM32H4-U12F<br>124142 | IZM32H4-U12W<br>123852                   |                        |                      |
|                                                                                                              | 1600             |       | 640 – 1600                                                                        |                                                                                                                                                                     |             | IZM32H4-U16F<br>124143 | IZM32H4-U16W<br>123853                   |                        |                      |
|                                                                                                              | 2000             |       | 800 – 2000                                                                        |                                                                                                                                                                     |             | IZM32H4-U20F<br>124144 | IZM32H4-U20W<br>123854                   |                        |                      |
|                                                                                                              | 2500             |       | 1000 – 2500                                                                       |                                                                                                                                                                     |             | IZM32H4-U25F<br>124145 | IZM32H4-U25W<br>123855                   |                        |                      |
|                                                                                                              | 3200             |       | 1280 – 3200                                                                       |                                                                                                                                                                     |             | IZM32H4-U32F<br>124146 | IZM32H4-U32W<br>123856                   |                        |                      |
|                                                                                                              | 4000             | IZM40 | 1600 – 4000                                                                       |                                                                                                                                                                     |             | IZM40H4-U40F<br>124382 | IZM40H4-U40W<br>124272                   |                        |                      |
|                                                                                                              | 4000             |       | IZM63                                                                             |                                                                                                                                                                     |             | 1600 – 4000            | IZM63H4-U40F<br>124383                   | IZM63H4-U40W<br>124273 |                      |
|                                                                                                              | 5000             |       |                                                                                   |                                                                                                                                                                     |             | 2000 – 5000            | IZM63H4-U50F<br>124384                   | IZM63H4-U50W<br>124274 |                      |
|                                                                                                              | 6300             |       |                                                                                   |                                                                                                                                                                     |             | 2520 – 6300            | IZM63H4-U63F<br>124385                   | IZM63H4-U63W<br>124275 |                      |

IZM26

| Switching capacity                                                                                           | Rated current    | Size  | Setting range                                                                     |                                                                                   | fixed                                                                             | Price see price list   | withdrawable                             | Price see price list |             |
|--------------------------------------------------------------------------------------------------------------|------------------|-------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------|------------------------------------------|----------------------|-------------|
|                                                                                                              |                  |       | Overload releases                                                                 | Short-circuit releases                                                            |                                                                                   |                        |                                          |                      |             |
|                                                                                                              |                  |       |                                                                                   | Delayed                                                                           |                                                                                   |                        |                                          |                      | Non-delayed |
| $I_{cu} = I_{cs}$<br>kA                                                                                      | $I_n = I_u$<br>A |       | $I_r$<br>A                                                                        | $I_{sd} = I_r \times \dots$<br>$I_i = I_n \times \dots$                           | Part no.<br>Article no.                                                           |                        | Part no.<br>Article no.                  |                      |             |
|                                                                                                              |                  |       |  |  |  |                        | Cassette needs to be ordered separately. |                      |             |
| Circuit-breaker for universal protection with power measurement                                              |                  |       |                                                                                   |                                                                                   |                                                                                   |                        |                                          |                      |             |
| Including rear connection main terminals and secondary terminal blocks according to ordered breaker options. |                  |       |                                                                                   |                                                                                   |                                                                                   |                        |                                          |                      |             |
| 50                                                                                                           | 800              | IZM20 | 320 – 800                                                                         | 2 - 10                                                                            | 2 - 10, OFF                                                                       | IZM20B4-P08F<br>123538 | IZM20B4-P08W<br>123298                   |                      |             |
|                                                                                                              | 1000             |       | 400 – 1000                                                                        |                                                                                   |                                                                                   | IZM20B4-P10F<br>123539 | IZM20B4-P10W<br>123299                   |                      |             |
|                                                                                                              | 1250             |       | 500 – 1250                                                                        |                                                                                   |                                                                                   | IZM20B4-P12F<br>123540 | IZM20B4-P12W<br>123300                   |                      |             |
|                                                                                                              | 1600             |       | 640 – 1600                                                                        |                                                                                   |                                                                                   | IZM20B4-P16F<br>123541 | IZM20B4-P16W<br>123301                   |                      |             |
|                                                                                                              | 2000             |       | 800 – 2000                                                                        |                                                                                   |                                                                                   | IZM20B4-P20F<br>123542 | IZM20B4-P20W<br>123302                   |                      |             |
| 65                                                                                                           | 800              | IZM20 | 320 – 800                                                                         | 2 - 10                                                                            | 2 - 10, OFF                                                                       | IZM20N4-P08F<br>123568 | IZM20N4-P08W<br>123328                   |                      |             |
|                                                                                                              | 1000             |       | 400 – 1000                                                                        |                                                                                   |                                                                                   | IZM20N4-P10F<br>123569 | IZM20N4-P10W<br>123329                   |                      |             |
|                                                                                                              | 1250             |       | 500 – 1250                                                                        |                                                                                   |                                                                                   | IZM20N4-P12F<br>123570 | IZM20N4-P12W<br>123330                   |                      |             |
|                                                                                                              | 1600             |       | 640 – 1600                                                                        |                                                                                   |                                                                                   | IZM20N4-P16F<br>123571 | IZM20N4-P16W<br>123331                   |                      |             |
|                                                                                                              | 2000             |       | 800 – 2000                                                                        |                                                                                   |                                                                                   | IZM20N4-P20F<br>123572 | IZM20N4-P20W<br>123332                   |                      |             |
|                                                                                                              | 800              | IZM32 | 320 – 800                                                                         |                                                                                   |                                                                                   | IZM32B4-P08F<br>124068 | IZM32B4-P08W<br>123778                   |                      |             |
|                                                                                                              | 1000             |       | 400 – 1000                                                                        |                                                                                   |                                                                                   | IZM32B4-P10F<br>124069 | IZM32B4-P10W<br>123779                   |                      |             |
|                                                                                                              | 1250             |       | 500 – 1250                                                                        |                                                                                   |                                                                                   | IZM32B4-P12F<br>124070 | IZM32B4-P12W<br>123780                   |                      |             |
|                                                                                                              | 1600             |       | 640 – 1600                                                                        |                                                                                   |                                                                                   | IZM32B4-P16F<br>124071 | IZM32B4-P16W<br>123781                   |                      |             |
|                                                                                                              | 2000             |       | 800 – 2000                                                                        |                                                                                   |                                                                                   | IZM32B4-P20F<br>124072 | IZM32B4-P20W<br>123782                   |                      |             |
|                                                                                                              | 2500             |       | 1000 – 2500                                                                       |                                                                                   |                                                                                   | IZM32B4-P25F<br>124073 | IZM32B4-P25W<br>123783                   |                      |             |
|                                                                                                              | 3200             |       | 1280 – 3200                                                                       |                                                                                   |                                                                                   | IZM32B4-P32F<br>124074 | IZM32B4-P32W<br>123784                   |                      |             |
|                                                                                                              | 800              | IZM32 | 320 – 800                                                                         |                                                                                   |                                                                                   | IZM32N4-P08F<br>124108 | IZM32N4-P08W<br>123818                   |                      |             |
|                                                                                                              | 1000             |       | 400 – 1000                                                                        |                                                                                   |                                                                                   | IZM32N4-P10F<br>124109 | IZM32N4-P10W<br>123819                   |                      |             |
|                                                                                                              | 1250             |       | 500 – 1250                                                                        |                                                                                   |                                                                                   | IZM32N4-P12F<br>124110 | IZM32N4-P12W<br>123820                   |                      |             |
|                                                                                                              | 1600             |       | 640 – 1600                                                                        |                                                                                   |                                                                                   | IZM32N4-P16F<br>124111 | IZM32N4-P16W<br>123821                   |                      |             |
|                                                                                                              | 2000             |       | 800 – 2000                                                                        |                                                                                   |                                                                                   | IZM32N4-P20F<br>124112 | IZM32N4-P20W<br>123822                   |                      |             |
| 85                                                                                                           | 2500             | IZM32 | 1000 – 2500                                                                       |                                                                                   |                                                                                   | IZM32N4-P25F<br>124113 | IZM32N4-P25W<br>123823                   |                      |             |
|                                                                                                              | 3200             |       | 1280 – 3200                                                                       |                                                                                   |                                                                                   | IZM32N4-P32F<br>124114 | IZM32N4-P32W<br>123824                   |                      |             |
|                                                                                                              | 4000             | IZM40 | 1600 – 4000                                                                       |                                                                                   |                                                                                   | IZM40N4-P40F<br>124366 | IZM40N4-P40W<br>124256                   |                      |             |
|                                                                                                              | 4000             |       | 1600 – 4000                                                                       |                                                                                   |                                                                                   | IZM63N4-P40F<br>124367 | IZM63N4-P40W<br>124257                   |                      |             |
|                                                                                                              | 5000             | IZM63 | 2000 – 5000                                                                       |                                                                                   |                                                                                   | IZM63N4-P50F<br>124368 | IZM63N4-P50W<br>124258                   |                      |             |
|                                                                                                              | 6300             |       | 2520 – 6300                                                                       |                                                                                   |                                                                                   | IZM63N4-P63F<br>124369 | IZM63N4-P63W<br>124259                   |                      |             |
|                                                                                                              | 6300             |       | 2520 – 6300                                                                       |                                                                                   |                                                                                   |                        |                                          |                      |             |

## Air circuit-breakers, 4-pole/Air circuit-breakers 1100 V, 4-pole

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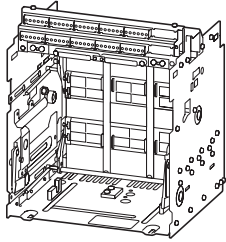
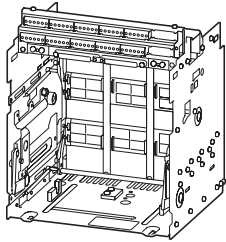
IZM26

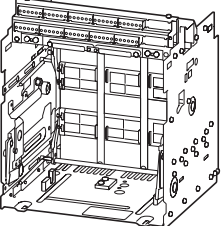
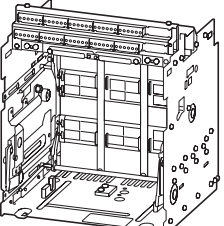
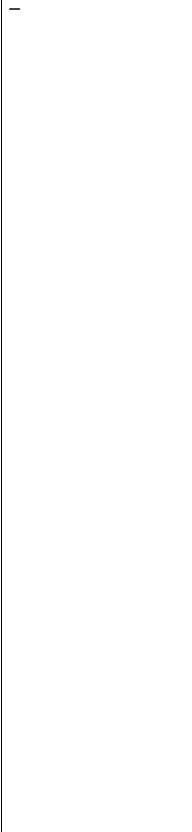
| Switching capacity                                                                                           | Rated current    | Size  | Setting range                                                                     |                                                                                   | fixed<br>Part no.<br>Article no.                                                  | Price<br>see price list | withdrawable<br>Part no.<br>Article no. | Price<br>see price list |
|--------------------------------------------------------------------------------------------------------------|------------------|-------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------|-----------------------------------------|-------------------------|
|                                                                                                              |                  |       | Overload releases                                                                 | Short-circuit releases                                                            |                                                                                   |                         |                                         |                         |
|                                                                                                              |                  |       |                                                                                   | Delayed                                                                           | Non-delayed                                                                       |                         |                                         |                         |
| $I_{cu} = I_{cs}$<br>kA                                                                                      | $I_n = I_u$<br>A |       | $I_r$<br>A                                                                        | $I_{sd} = I_r \times \dots$                                                       | $I_i = I_n \times \dots$                                                          |                         |                                         |                         |
|                                                                                                              |                  |       |  |  |  |                         |                                         |                         |
| <b>Circuit-breaker for universal protection with power measurement</b>                                       |                  |       |                                                                                   |                                                                                   |                                                                                   |                         |                                         |                         |
| Including rear connection main terminals and secondary terminal blocks according to ordered breaker options. |                  |       |                                                                                   |                                                                                   |                                                                                   |                         |                                         |                         |
| 100                                                                                                          | 800              | IZM32 | 320 – 800                                                                         | 2 - 10                                                                            | 2 - 10, OFF                                                                       | IZM32H4-P08F<br>124148  | IZM32H4-P08W<br>123858                  |                         |
|                                                                                                              | 1000             |       | 400 – 1000                                                                        |                                                                                   |                                                                                   | IZM32H4-P10F<br>124149  | IZM32H4-P10W<br>123859                  |                         |
|                                                                                                              | 1250             |       | 500 – 1250                                                                        |                                                                                   |                                                                                   | IZM32H4-P12F<br>124150  | IZM32H4-P12W<br>123860                  |                         |
|                                                                                                              | 1600             |       | 640 – 1600                                                                        |                                                                                   |                                                                                   | IZM32H4-P16F<br>124151  | IZM32H4-P16W<br>123861                  |                         |
|                                                                                                              | 2000             |       | 800 – 2000                                                                        |                                                                                   |                                                                                   | IZM32H4-P20F<br>124152  | IZM32H4-P20W<br>123862                  |                         |
|                                                                                                              | 2500             |       | 1000 – 2500                                                                       |                                                                                   |                                                                                   | IZM32H4-P25F<br>124153  | IZM32H4-P25W<br>123863                  |                         |
|                                                                                                              | 3200             |       | 1280 – 3200                                                                       |                                                                                   |                                                                                   | IZM32H4-P32F<br>124154  | IZM32H4-P32W<br>123864                  |                         |
|                                                                                                              | 4000             | IZM40 | 1600 – 4000                                                                       |                                                                                   |                                                                                   | IZM40H4-P40F<br>124386  | IZM40H4-P40W<br>124276                  |                         |
|                                                                                                              | 4000             | IZM63 | 1600 – 4000                                                                       |                                                                                   |                                                                                   | IZM63H4-P40F<br>124387  | IZM63H4-P40W<br>124277                  |                         |
|                                                                                                              | 5000             |       | 2000 – 5000                                                                       |                                                                                   |                                                                                   | IZM63H4-P50F<br>124388  | IZM63H4-P50W<br>124278                  |                         |
|                                                                                                              | 6300             |       | 2520 – 6300                                                                       |                                                                                   |                                                                                   | IZM63H4-P63F<br>124389  | IZM63H4-P63W<br>124279                  |                         |

| Switching capacity                                                                                           | Rated current    | Setting range | Overload releases                                                                   | Short-circuit releases                                                              |                                                                                     | fixed<br>Part no.<br>Article no. | Price<br>see price list | withdrawable<br>Part no.<br>Article no. | Price<br>see price list |
|--------------------------------------------------------------------------------------------------------------|------------------|---------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------|-------------------------|-----------------------------------------|-------------------------|
|                                                                                                              |                  |               |                                                                                     | Delayed                                                                             | Non-delayed                                                                         |                                  |                         |                                         |                         |
| $I_{cu} = I_{cs}$<br>kA                                                                                      | $I_n = I_u$<br>A | $I_r$<br>A    |                                                                                     | $I_{sd} = I_r \times \dots$                                                         | $I_i = I_n \times \dots$                                                            |                                  |                         |                                         |                         |
|                                                                                                              |                  |               |  |  |  |                                  |                         |                                         |                         |
| <b>IZM26 for 1100 V</b>                                                                                      |                  |               |                                                                                     |                                                                                     |                                                                                     |                                  |                         |                                         |                         |
| Including rear connection main terminals and secondary terminal blocks according to ordered breaker options. |                  |               |                                                                                     |                                                                                     |                                                                                     |                                  |                         |                                         |                         |
| <b>Circuit-breaker for system protection</b>                                                                 |                  |               |                                                                                     |                                                                                     |                                                                                     |                                  |                         |                                         |                         |
| 25                                                                                                           | 3200             | 1280 – 3200   | –                                                                                   | 2 - 10                                                                              |                                                                                     | IZM32S4-A32F-1100V<br>123866     |                         | IZM32S4-A32W-1100V<br>123750            |                         |
| <b>Circuit-breaker for selective operation</b>                                                               |                  |               |                                                                                     |                                                                                     |                                                                                     |                                  |                         |                                         |                         |
| 25                                                                                                           | 3200             | 1280 – 3200   |                                                                                     | 2 - 10                                                                              | 2 - 10, OFF                                                                         | IZM32S4-V32F-1100V<br>123867     |                         | IZM32S4-V32W-1100V<br>123751            |                         |
| <b>Circuit-breaker with universal protection</b>                                                             |                  |               |                                                                                     |                                                                                     |                                                                                     |                                  |                         |                                         |                         |
| 25                                                                                                           | 3200             | 1280 – 3200   |                                                                                     | 2 - 10                                                                              | 2 - 10, OFF                                                                         | IZM32S4-U32F-1100V<br>123868     |                         | IZM32S4-U32W-1100V<br>123752            |                         |
| <b>Circuit-breaker for universal protection with power measurement</b>                                       |                  |               |                                                                                     |                                                                                     |                                                                                     |                                  |                         |                                         |                         |
| 25                                                                                                           | 3200             | 1280 – 3200   |                                                                                     | 2 - 10                                                                              | 2 - 10, OFF                                                                         | IZM32S4-P32F-1100V<br>123869     |                         | IZM32S4-P32W-1100V<br>123753            |                         |

| Rated short-circuit making capacity<br>$I_{cm}$<br>kA                                                        | Rated current = rated uninterrupted current<br>$I_n = I_u$<br>A | Size | Rated shorttime withstand current $t = 1$ s<br>$I_{cw}$<br>kA | fixed<br>Part no.<br>Article no. | Price<br>see price list | withdrawable<br>Part no.<br>Article no.<br>Cassette needs to be ordered separately. | Price<br>see price list |
|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|------|---------------------------------------------------------------|----------------------------------|-------------------------|-------------------------------------------------------------------------------------|-------------------------|
| Including rear connection main terminals and secondary terminal blocks according to ordered breaker options. |                                                                 |      |                                                               |                                  |                         |                                                                                     |                         |
| 55                                                                                                           | 800                                                             | IN20 | 50                                                            | IN20B3-08F<br>123424             |                         | IN20B3-08W<br>123184                                                                |                         |
|                                                                                                              |                                                                 | IN32 | 65                                                            | IN32B3-08F<br>123931             |                         | IN32B3-08W<br>123641                                                                |                         |
|                                                                                                              |                                                                 | IN32 | 85                                                            | IN32N3-08F<br>123971             |                         | IN32N3-08W<br>123681                                                                |                         |
|                                                                                                              | 1000                                                            | IN20 | 50                                                            | IN20B3-10F<br>123425             |                         | IN20B3-10W<br>123185                                                                |                         |
|                                                                                                              |                                                                 | IN32 | 65                                                            | IN32B3-10F<br>123932             |                         | IN32B3-10W<br>123642                                                                |                         |
|                                                                                                              |                                                                 | IN32 | 85                                                            | IN32N3-10F<br>123972             |                         | IN32N3-10W<br>123682                                                                |                         |
|                                                                                                              | 1250                                                            | IN20 | 50                                                            | IN20B3-12F<br>123426             |                         | IN20B3-12W<br>123186                                                                |                         |
|                                                                                                              |                                                                 | IN32 | 65                                                            | IN32B3-12F<br>123933             |                         | IN32B3-12W<br>123643                                                                |                         |
|                                                                                                              |                                                                 | IN32 | 85                                                            | IN32N3-12F<br>123973             |                         | IN32N3-12W<br>123683                                                                |                         |
|                                                                                                              | 1600                                                            | IN20 | 50                                                            | IN20B3-16F<br>123427             |                         | IN20B3-16W<br>123187                                                                |                         |
|                                                                                                              |                                                                 | IN32 | 65                                                            | IN32B3-16F<br>123934             |                         | IN32B3-16W<br>123644                                                                |                         |
|                                                                                                              |                                                                 | IN32 | 85                                                            | IN32N3-16F<br>123974             |                         | IN32N3-16W<br>123684                                                                |                         |
|                                                                                                              | 2000                                                            | IN20 | 50                                                            | IN20B3-20F<br>123428             |                         | IN20B3-20W<br>123188                                                                |                         |
| 69                                                                                                           | 800                                                             | IN20 | 65                                                            | IN20N3-08F<br>123454             |                         | IN20N3-08W<br>123214                                                                |                         |
|                                                                                                              | 1000                                                            | IN20 | 65                                                            | IN20N3-10F<br>123455             |                         | IN20N3-10W<br>123215                                                                |                         |
|                                                                                                              | 1250                                                            | IN20 | 65                                                            | IN20N3-12F<br>123456             |                         | IN20N3-12W<br>123216                                                                |                         |
|                                                                                                              | 1600                                                            | IN20 | 65                                                            | IN20N3-16F<br>123457             |                         | IN20N3-16W<br>123217                                                                |                         |
|                                                                                                              | 2000                                                            | IN20 | 65                                                            | IN20N3-20F<br>123458             |                         | IN20N3-20W<br>123218                                                                |                         |
|                                                                                                              |                                                                 | IN32 | 65                                                            | IN32B3-20F<br>123935             |                         | IN32B3-20W<br>123645                                                                |                         |
|                                                                                                              |                                                                 | IN32 | 85                                                            | IN32N3-20F<br>123975             |                         | IN32N3-20W<br>123685                                                                |                         |
| 110                                                                                                          | 2500                                                            | IN32 | 65                                                            | IN32B3-25F<br>123936             |                         | IN32B3-25W<br>123646                                                                |                         |
|                                                                                                              | 2500                                                            | IN32 | 85                                                            | IN32N3-25F<br>123976             |                         | IN32N3-25W<br>123686                                                                |                         |
|                                                                                                              | 3200                                                            | IN32 | 65                                                            | IN32B3-32F<br>123937             |                         | IN32B3-32W<br>123647                                                                |                         |
|                                                                                                              | 3200                                                            | IN32 | 85                                                            | IN32N3-32F<br>123977             |                         | IN32N3-32W<br>123687                                                                |                         |
| 138                                                                                                          | 4000                                                            | IN40 | 85                                                            | IN40N3-40F<br>124315             |                         | IN40N3-40W<br>124205                                                                |                         |
|                                                                                                              |                                                                 | IN63 | 85                                                            | IN63N3-40F<br>124316             |                         | IN63N3-40W<br>124206                                                                |                         |
|                                                                                                              |                                                                 | IN63 | 100                                                           | IN63H3-40F<br>124336             |                         | IN63H3-40W<br>124226                                                                |                         |
| 210                                                                                                          | 3200                                                            | IN32 | –                                                             | IN32S3-32F-1100V<br>123871       |                         | IN32S3-32W-1100V<br>123870                                                          |                         |
| 217                                                                                                          | 5000                                                            | IN63 | 85                                                            | IN63N3-50F<br>124317             |                         | IN63N3-50W<br>124207                                                                |                         |
|                                                                                                              | 5000                                                            | IN63 | 100                                                           | IN63H3-50F<br>124337             |                         | IN63H3-50W<br>124227                                                                |                         |
|                                                                                                              | 6300                                                            | IN63 | 85                                                            | IN63N3-63F<br>124318             |                         | IN63N3-63W<br>124208                                                                |                         |
|                                                                                                              | 6300                                                            | IN63 | 100                                                           | IN63H3-63F<br>124338             |                         | IN63H3-63W<br>124228                                                                |                         |

| Rated short-circuit making capacity<br>$I_{cm}$<br>kA                                                        | Rated current = rated uninterrupted current<br>$I_n = I_u$<br>A | Size | Rated shorttime withstand current $t = 1 \text{ s}$<br>$I_{cw}$<br>kA | fixed<br>Part no.<br>Article no. | Price<br>see price list | withdrawable<br>Part no.<br>Article no.<br>Cassette needs to be ordered separately. | Price<br>see price list |
|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|------|-----------------------------------------------------------------------|----------------------------------|-------------------------|-------------------------------------------------------------------------------------|-------------------------|
| Including rear connection main terminals and secondary terminal blocks according to ordered breaker options. |                                                                 |      |                                                                       |                                  |                         |                                                                                     |                         |
| 55                                                                                                           | 800                                                             | IN20 | 50                                                                    | IN20B4-08F<br>123544             |                         | IN20B4-08W<br>123304                                                                |                         |
|                                                                                                              |                                                                 | IN32 | 65                                                                    | IN32B4-08F<br>124076             |                         | IN32B4-08W<br>123786                                                                |                         |
|                                                                                                              |                                                                 | IN32 | 85                                                                    | IN32N4-08F<br>124116             |                         | IN32N4-08W<br>123826                                                                |                         |
|                                                                                                              | 1000                                                            | IN20 | 50                                                                    | IN20B4-10F<br>123545             |                         | IN20B4-10W<br>123305                                                                |                         |
|                                                                                                              |                                                                 | IN32 | 65                                                                    | IN32B4-10F<br>124077             |                         | IN32B4-10W<br>123787                                                                |                         |
|                                                                                                              |                                                                 | IN32 | 85                                                                    | IN32N4-10F<br>124117             |                         | IN32N4-10W<br>123827                                                                |                         |
|                                                                                                              | 1250                                                            | IN20 | 50                                                                    | IN20B4-12F<br>123546             |                         | IN20B4-12W<br>123306                                                                |                         |
|                                                                                                              |                                                                 | IN32 | 65                                                                    | IN32B4-12F<br>124078             |                         | IN32B4-12W<br>123788                                                                |                         |
|                                                                                                              |                                                                 | IN32 | 85                                                                    | IN32N4-12F<br>124118             |                         | IN32N4-12W<br>123828                                                                |                         |
|                                                                                                              | 1600                                                            | IN20 | 50                                                                    | IN20B4-16F<br>123547             |                         | IN20B4-16W<br>123307                                                                |                         |
|                                                                                                              |                                                                 | IN32 | 65                                                                    | IN32B4-16F<br>124079             |                         | IN32B4-16W<br>123789                                                                |                         |
|                                                                                                              |                                                                 | IN32 | 85                                                                    | IN32N4-16F<br>124119             |                         | IN32N4-16W<br>123829                                                                |                         |
|                                                                                                              | 2000                                                            | IN20 | 50                                                                    | IN20B4-20F<br>123548             |                         | IN20B4-20W<br>123308                                                                |                         |
| 69                                                                                                           | 800                                                             | IN20 | 65                                                                    | IN20N4-08F<br>123574             |                         | IN20N4-08W<br>123334                                                                |                         |
|                                                                                                              | 1000                                                            | IN20 | 65                                                                    | IN20N4-10F<br>123575             |                         | IN20N4-10W<br>123335                                                                |                         |
|                                                                                                              | 1250                                                            | IN20 | 65                                                                    | IN20N4-12F<br>123576             |                         | IN20N4-12W<br>123336                                                                |                         |
|                                                                                                              | 1600                                                            | IN20 | 65                                                                    | IN20N4-16F<br>123577             |                         | IN20N4-16W<br>123337                                                                |                         |
|                                                                                                              | 2000                                                            | IN20 | 65                                                                    | IN20N4-20F<br>123578             |                         | IN20N4-20W<br>123338                                                                |                         |
|                                                                                                              |                                                                 | IN32 | 65                                                                    | IN32B4-20F<br>124080             |                         | IN32B4-20W<br>123790                                                                |                         |
|                                                                                                              |                                                                 | IN32 | 85                                                                    | IN32N4-20F<br>124120             |                         | IN32N4-20W<br>123830                                                                |                         |
|                                                                                                              |                                                                 |      |                                                                       |                                  |                         |                                                                                     |                         |
| 110                                                                                                          | 2500                                                            | IN32 | 65                                                                    | IN32B4-25F<br>124081             |                         | IN32B4-25W<br>123791                                                                |                         |
|                                                                                                              | 2500                                                            | IN32 | 85                                                                    | IN32N4-25F<br>124121             |                         | IN32N4-25W<br>123831                                                                |                         |
|                                                                                                              | 3200                                                            | IN32 | 65                                                                    | IN32B4-32F<br>124082             |                         | IN32B4-32W<br>123792                                                                |                         |
|                                                                                                              | 3200                                                            | IN32 | 85                                                                    | IN32N4-32F<br>124122             |                         | IN32N4-32W<br>123832                                                                |                         |
| 138                                                                                                          | 4000                                                            | IN40 | 85                                                                    | IN40N4-40F<br>124370             |                         | IN40N4-40W<br>124260                                                                |                         |
|                                                                                                              |                                                                 | IN63 | 85                                                                    | IN63N4-40F<br>124371             |                         | IN63N4-40W<br>124261                                                                |                         |
|                                                                                                              |                                                                 | IN63 | 100                                                                   | IN63H4-40F<br>124391             |                         | IN63H4-40W<br>124281                                                                |                         |
| 210                                                                                                          | 3200                                                            | IN32 | –                                                                     | IN32S4-32F-1100V<br>123894       |                         | IN32S4-32W-1100V<br>123872                                                          |                         |
| 217                                                                                                          | 5000                                                            | IN63 | 85                                                                    | IN63N4-50F<br>124372             |                         | IN63N4-50W<br>124262                                                                |                         |
|                                                                                                              | 5000                                                            | IN63 | 100                                                                   | IN63H4-50F<br>124392             |                         | IN63H4-50W<br>124282                                                                |                         |
|                                                                                                              | 6300                                                            | IN63 | 85                                                                    | IN63N4-63F<br>124373             |                         | IN63N4-63W<br>124263                                                                |                         |
|                                                                                                              | 6300                                                            | IN63 | 100                                                                   | IN63H4-63F<br>124393             |                         | IN63H4-63W<br>124283                                                                |                         |

|                                                                                                                                                                                                                        | Rated current<br>$I_n$<br>A | No. of poles | For use with          | Part no.<br>Article no.<br><br>Part no. suffix „+IZM...“<br>Article no. when ordered<br>with basic unit | Price<br>see price list |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|--------------|-----------------------|---------------------------------------------------------------------------------------------------------|-------------------------|
| <b>Withdrawable technique</b>                                                                                                                                                                                          |                             |              |                       |                                                                                                         |                         |
| Cassettes in combination with basic device                                                                                                                                                                             |                             |              |                       |                                                                                                         |                         |
| Standard equipment:                                                                                                                                                                                                    |                             |              |                       |                                                                                                         |                         |
| <ul style="list-style-type: none"> <li>• Arc hood</li> <li>• Cell rejection kit (coding between cassette and breaker)</li> <li>• Horizontal main terminal connectors</li> <li>• Door escutcheon with gasket</li> </ul> |                             |              |                       |                                                                                                         |                         |
|                                                                                                                                       | ≤ 2000                      | 3            | IZM20...W<br>IN20...W | +IZM-CAS203-2000<br>122065                                                                              |                         |
|                                                                                                                                                                                                                        | ≤ 2000                      | 3            | IZM32...W<br>IN32...W | +IZM-CAS323-2000<br>122066                                                                              |                         |
|                                                                                                                                                                                                                        | 2500 - 3200                 | 3            | IZM32...W<br>IN32...W | +IZM-CAS323-3200<br>122067                                                                              |                         |
|                                                                                                                                                                                                                        | 4000                        | 3            | IZM40...W<br>IN40...W | +IZM-CAS403-4000<br>122069                                                                              |                         |
|                                                                                                                                                                                                                        | 4000                        | 3            | IZM63...W<br>IN63...W | +IZM-CAS633-4000<br>122710                                                                              |                         |
|                                                                                                                                                                                                                        | 5000 - 6300                 | 3            | IZM63...W<br>IN63...W | +IZM-CAS633-6300<br>122711                                                                              |                         |
|                                                                                                                                                                                                                        | ≤ 2000                      | 4            | IZM20...W<br>IN20...W | +IZM-CAS204-2000<br>122713                                                                              |                         |
|                                                                                                                                                                                                                        | ≤ 2000                      | 4            | IZM32...W<br>IN32...W | +IZM-CAS324-2000<br>122714                                                                              |                         |
|                                                                                                                                                                                                                        | 2500 - 3200                 | 4            | IZM32...W<br>IN32...W | +IZM-CAS324-3200<br>122715                                                                              |                         |
|                                                                                                                                                                                                                        | 4000                        | 4            | IZM40...W<br>IN40...W | +IZM-CAS404-4000<br>122717                                                                              |                         |
|                                                                                                                                                                                                                        | 4000                        | 4            | IZM63...W<br>IN63...W | +IZM-CAS634-4000<br>122718                                                                              |                         |
|                                                                                                                                                                                                                        | 5000 - 6300                 | 4            | IZM63...W<br>IN63...W | +IZM-CAS634-6300<br>122719                                                                              |                         |
| Cassettes, field installable option kit                                                                                                                                                                                |                             |              |                       |                                                                                                         |                         |
| Cassette comes standard with:                                                                                                                                                                                          |                             |              |                       |                                                                                                         |                         |
| <ul style="list-style-type: none"> <li>• Arc hood</li> <li>• Full compliment of secondaries</li> <li>• Horizontal main terminal connectors</li> <li>• Door escutcheon with gasket</li> </ul>                           |                             |              |                       |                                                                                                         |                         |
|                                                                                                                                     | ≤ 2000                      | 3            | IZM20...W<br>IN20...W | IZM-CAS203-2000<br>122855                                                                               |                         |
|                                                                                                                                                                                                                        | ≤ 2000                      | 3            | IZM32...W<br>IN32...W | IZM-CAS323-2000<br>122856                                                                               |                         |
|                                                                                                                                                                                                                        | 2500 - 3200                 | 3            | IZM32...W<br>IN32...W | IZM-CAS323-3200<br>122857                                                                               |                         |
|                                                                                                                                                                                                                        | 4000                        | 3            | IZM40...W<br>IN40...W | IZM-CAS403-4000<br>122859                                                                               |                         |
|                                                                                                                                                                                                                        | 4000                        | 3            | IZM63...W<br>IN63...W | IZM-CAS633-4000<br>122860                                                                               |                         |
|                                                                                                                                                                                                                        | 5000 - 6300                 | 3            | IZM63...W<br>IN63...W | IZM-CAS633-6300<br>122861                                                                               |                         |
|                                                                                                                                                                                                                        | ≤ 2000                      | 4            | IZM20...W<br>IN20...W | IZM-CAS204-2000<br>122863                                                                               |                         |
|                                                                                                                                                                                                                        | ≤ 2000                      | 4            | IZM32...W<br>IN32...W | IZM-CAS324-2000<br>122864                                                                               |                         |
|                                                                                                                                                                                                                        | 2500 - 3200                 | 4            | IZM32...W<br>IN32...W | IZM-CAS324-3200<br>122865                                                                               |                         |
|                                                                                                                                                                                                                        | 4000                        | 4            | IZM40...W<br>IN40...W | IZM-CAS404-4000<br>122867                                                                               |                         |
|                                                                                                                                                                                                                        | 4000                        | 4            | IZM63...W<br>IN63...W | IZM-CAS634-4000<br>122868                                                                               |                         |
|                                                                                                                                                                                                                        | 5000 - 6300                 | 4            | IZM63...W<br>IN63...W | IZM-CAS634-6300<br>122869                                                                               |                         |

|                                                                                                                                                                                                                        | Rated current<br>$I_n$<br>A | No. of<br>poles | For use with                      | Part no.<br>Article no.<br><br>Part no. suffix „+IZM...“<br>Article no. when ordered<br>with basic unit | Price<br>see price list |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------|-----------------------------------|---------------------------------------------------------------------------------------------------------|-------------------------|
| <b>Withdrawable technique</b>                                                                                                                                                                                          |                             |                 |                                   |                                                                                                         |                         |
| Cassettes 1100 V, in combination with basic device                                                                                                                                                                     |                             |                 |                                   |                                                                                                         |                         |
| Standard equipment:                                                                                                                                                                                                    |                             |                 |                                   |                                                                                                         |                         |
| <ul style="list-style-type: none"> <li>• Arc hood</li> <li>• Cell rejection kit (coding between cassette and breaker)</li> <li>• Horizontal main terminal connectors</li> <li>• Door escutcheon with gasket</li> </ul> |                             |                 |                                   |                                                                                                         |                         |
|                                                                                                                                       | 3200                        | 3               | IZM32...W-1100V<br>IN32...W-1100V | +IZM-CAS323-3200-1100V<br>122712                                                                        |                         |
|                                                                                                                                                                                                                        | 3200                        | 4               | IZM32...W-1100V<br>IN32...W-1100V | +IZM-CAS324-3200-1100V<br>122720                                                                        |                         |
| Cassettes 1100 V, field installable option kit                                                                                                                                                                         |                             |                 |                                   |                                                                                                         |                         |
| Standard equipment:                                                                                                                                                                                                    |                             |                 |                                   |                                                                                                         |                         |
| <ul style="list-style-type: none"> <li>• Arc hood</li> <li>• Cell rejection kit (coding between cassette and breaker)</li> <li>• Horizontal main terminal connectors</li> <li>• Door escutcheon with gasket</li> </ul> |                             |                 |                                   |                                                                                                         |                         |
|                                                                                                                                      | 3200                        | 3               | IZM32...W-1100V<br>IN32...W-1100V | IZM-CAS323-3200-1100V<br>122862                                                                         |                         |
|                                                                                                                                                                                                                        | 3200                        | 4               | IZM32...W-1100V<br>IN32...W-1100V | IZM-CAS324-3200-1100V<br>122870                                                                         |                         |
| Cassette safety shutters                                                                                                                                                                                               |                             |                 |                                   |                                                                                                         |                         |
| When the drawout circuit breaker is levered from the CONNECT position, the shutters automatically close to cover the primary contacts.                                                                                 |                             |                 |                                   |                                                                                                         |                         |
|                                                                                                                                     |                             | 3               | IZM20...W<br>IN20...W             | IZM-SH203<br>122871                                                                                     |                         |
|                                                                                                                                                                                                                        |                             | 3               | IZM20...W<br>IN20...W             | +IZM-SH203<br>122721                                                                                    |                         |
|                                                                                                                                                                                                                        |                             | 3               | IZM32...W<br>IN32...W             | IZM-SH323<br>122872                                                                                     |                         |
|                                                                                                                                                                                                                        |                             | 3               | IZM32...W<br>IN32...W             | +IZM-SH323<br>122722                                                                                    |                         |
|                                                                                                                                                                                                                        |                             | 3               | IZM40...W<br>IN40...W             | IZM-SH403<br>122873                                                                                     |                         |
|                                                                                                                                                                                                                        |                             | 3               | IZM40...W<br>IN40...W             | +IZM-SH403<br>122723                                                                                    |                         |
|                                                                                                                                                                                                                        |                             | 3               | IZM63...W<br>IN63...W             | IZM-SH633<br>122874                                                                                     |                         |
|                                                                                                                                                                                                                        |                             | 3               | IZM63...W<br>IN63...W             | +IZM-SH633<br>122724                                                                                    |                         |
|                                                                                                                                                                                                                        |                             | 4               | IZM20...W<br>IN20...W             | IZM-SH204<br>122875                                                                                     |                         |
|                                                                                                                                                                                                                        |                             | 4               | IZM20...W<br>IN20...W             | +IZM-SH204<br>122725                                                                                    |                         |
|                                                                                                                                                                                                                        |                             | 4               | IZM32...W<br>IN32...W             | IZM-SH324<br>122876                                                                                     |                         |
|                                                                                                                                                                                                                        |                             | 4               | IZM32...W<br>IN32...W             | +IZM-SH324<br>122726                                                                                    |                         |
|                                                                                                                                                                                                                        |                             | 4               | IZM40...W<br>IN40...W             | IZM-SH404<br>122877                                                                                     |                         |
|                                                                                                                                                                                                                        |                             | 4               | IZM40...W<br>IN40...W             | +IZM-SH404<br>122727                                                                                    |                         |
|                                                                                                                                                                                                                        |                             | 4               | IZM63...W<br>IN63...W             | IZM-SH634<br>122878                                                                                     |                         |
|                                                                                                                                                                                                                        |                             | 4               | IZM63...W<br>IN63...W             | +IZM-SH634<br>122728                                                                                    |                         |

For use with

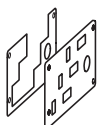
Part no.  
Article no.Price  
see  
price list

Notes

Part no. suffix „+IZM...“  
Article no. when ordered  
with basic unit

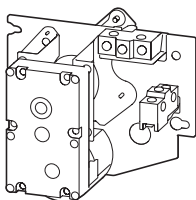
### Cell switches

For the indication of each position (disconnect, test and connect) one module with 4 changeover contacts is possible.  
Only one mounting bracket per cassette required.  
Each additional switch (maximum of 3) requires 2 terminal blocks IZM-SEC... or can be wired directly to an external source.

4 CO contacts: One module without  
mounting bracket4 CO contacts: One module with  
mounting bracket8 CO contacts: Two modules with  
mounting bracket12 CO contacts: Three modules with  
mounting bracketIZM20, 32, 40, 63...W  
IN20, 32, 40, 63...WIZM-CS4  
122879IZM-CS4MB  
122880IZM-CS8MB  
122881IZM-CS12MB  
122882

### Motor operators

The motor charges the closing springs electrically. For electrical operation a closing release and a shunt trip are required additionally. A "spring charged" signalling contact is included.

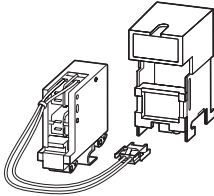
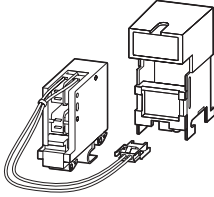
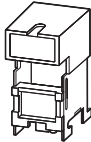
IZM20, 32, 40, 63...  
IN20, 32, 40, 63...IZM-M24DC  
122927+IZM-M24DC  
122729IZM-M48DC  
122928+IZM-M48DC  
122730IZM-M110DC  
122929+IZM-M110DC  
122731IZM-M220DC  
122930+IZM-M220DC  
122732IZM-M110AC  
122931+IZM-M110AC  
122733IZM-M230AC  
122932+IZM-M230AC  
122734

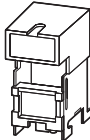
When ordering separately, an IZM-SEC... secondary terminal block is required for the connection. Order separately if required.  
→ Terminal assignment plan page 71

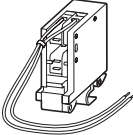
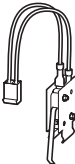
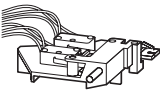
### Operation counter

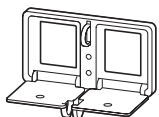
To record the number of ON-OFF operations. Application also without motor operator possible.

IZM20, 32, 40, 63...  
IN20, 32, 40, 63...IZM-OC  
122933+IZM-OC  
122735

|                                                                                                              | Rated control voltage<br>$U_s$<br>V | For use with                               | Part no.<br>Article no.<br><br>Part no. suffix<br>„+IZM...“<br>Article no. when ordered<br>with basic unit | Price<br>see<br>price list | Notes                                                                                                                                                             |
|--------------------------------------------------------------------------------------------------------------|-------------------------------------|--------------------------------------------|------------------------------------------------------------------------------------------------------------|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Voltage releases</b>                                                                                      |                                     |                                            |                                                                                                            |                            |                                                                                                                                                                   |
| One spring release can be combined with one shunt trip and one undervoltage release or with two shunt trips. |                                     |                                            |                                                                                                            |                            |                                                                                                                                                                   |
| <b>Shunt trips</b>                                                                                           |                                     |                                            |                                                                                                            |                            |                                                                                                                                                                   |
|                             | 24 DC                               | IZM20, 32, 40, 63...<br>IN20, 32,40, 63... | <b>IZM-ST24DC</b><br>122934                                                                                |                            | When ordering separately, an IZM-SEC... secondary terminal block is required for the connection. Order separately if required. → Terminal assignment plan page 71 |
|                                                                                                              | 24 DC                               |                                            | <b>+IZM-ST24DC</b><br>122736                                                                               |                            |                                                                                                                                                                   |
|                                                                                                              | 48 DC                               |                                            | <b>IZM-ST48DC</b><br>122935                                                                                |                            |                                                                                                                                                                   |
|                                                                                                              | 48 DC                               |                                            | <b>+IZM-ST48DC</b><br>122737                                                                               |                            |                                                                                                                                                                   |
|                                                                                                              | 110 - 125 DC<br>110 - 127 AC        |                                            | <b>IZM-ST110AD</b><br>122936                                                                               |                            |                                                                                                                                                                   |
|                                                                                                              | 110 - 125 DC<br>110 - 127 AC        |                                            | <b>+IZM-ST110AD</b><br>122738                                                                              |                            |                                                                                                                                                                   |
|                                                                                                              | 220 - 250 DC<br>208 - 240 AC        |                                            | <b>IZM-ST230AD</b><br>122937                                                                               |                            |                                                                                                                                                                   |
|                                                                                                              | 220 - 250 DC<br>208 - 240 AC        |                                            | <b>+IZM-ST230AD</b><br>122739                                                                              |                            |                                                                                                                                                                   |
| <b>Second shunt trips</b><br>Can not be combined with undervoltage release.                                  |                                     |                                            |                                                                                                            |                            |                                                                                                                                                                   |
|                           | 24 DC                               | IZM20, 32, 40, 63...<br>IN20, 32,40, 63... | <b>+IZM-STs24DC</b><br>122740                                                                              |                            | When ordering separately, an IZM-SEC... secondary terminal block is required for the connection. Order separately if required. → Terminal assignment plan page 71 |
|                                                                                                              | 48 DC                               |                                            | <b>+IZM-STs48DC</b><br>122741                                                                              |                            |                                                                                                                                                                   |
|                                                                                                              | 110 - 127 DC<br>110 - 127 AC        |                                            | <b>+IZM-STs110AD</b><br>122742                                                                             |                            |                                                                                                                                                                   |
|                                                                                                              | 208 - 250 DC<br>208 - 250 AC        |                                            | <b>+IZM-STs230AD</b><br>122743                                                                             |                            |                                                                                                                                                                   |
|                                                                                                              |                                     |                                            |                                                                                                            |                            |                                                                                                                                                                   |
| <b>Spring releases</b>                                                                                       |                                     |                                            |                                                                                                            |                            |                                                                                                                                                                   |
|                           | 110 - 125 DC<br>110 - 127 AC        | IZM20, 32, 40, 63...<br>IN20, 32,40, 63... | <b>IZM-SR110AD</b><br>122944                                                                               |                            | When ordering separately, an IZM-SEC... secondary terminal block is required for the connection. Order separately if required. → Terminal assignment plan page 71 |
|                                                                                                              | 110 - 125 DC<br>110 - 127 AC        |                                            | <b>+IZM-SR110AD</b><br>122746                                                                              |                            |                                                                                                                                                                   |
|                                                                                                              | 220 - 250 DC<br>208 - 240 AC        |                                            | <b>IZM-SR230AD</b><br>122945                                                                               |                            |                                                                                                                                                                   |
|                                                                                                              | 220 - 250 DC<br>208 - 240 AC        |                                            | <b>+IZM-SR230AD</b><br>122747                                                                              |                            |                                                                                                                                                                   |
|                                                                                                              | 24 DC                               |                                            | <b>IZM-SR24DC</b><br>122942                                                                                |                            |                                                                                                                                                                   |
|                                                                                                              | 24 DC                               |                                            | <b>+IZM-SR24DC</b><br>122744                                                                               |                            |                                                                                                                                                                   |
|                                                                                                              | 48 DC                               |                                            | <b>IZM-SR48DC</b><br>122943                                                                                |                            |                                                                                                                                                                   |
|                                                                                                              | 48 DC                               |                                            | <b>+IZM-SR48DC</b><br>122745                                                                               |                            |                                                                                                                                                                   |
|                                                                                                              |                                     |                                            |                                                                                                            |                            |                                                                                                                                                                   |

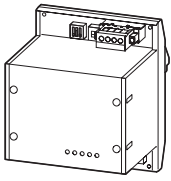
|                                                                                                                |                                           | Rated control<br>voltage<br><br>$U_s$<br>V | For use with                               | Part no.<br>Article no.<br><br>Part no. suffix<br>„+IZM...“<br>Article no. when<br>ordered with basic unit | Price<br>see<br>price list | Notes                                                                                                                                                                               |
|----------------------------------------------------------------------------------------------------------------|-------------------------------------------|--------------------------------------------|--------------------------------------------|------------------------------------------------------------------------------------------------------------|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Voltage releases                                                                                               |                                           |                                            |                                            |                                                                                                            |                            |                                                                                                                                                                                     |
| Undervoltage releases<br>Can not be combined with second shunt trip.                                           |                                           |                                            |                                            |                                                                                                            |                            |                                                                                                                                                                                     |
|                               | —                                         | 24 DC                                      | IZM20, 32, 40, 63...<br>IN20, 32,40, 63... | IZM-UVR24DC<br>122946                                                                                      |                            | When ordering separately,<br>an IZM-SEC... secondary<br>terminal block is required<br>for the connection. Order<br>separately if required. →<br>Terminal assignment plan<br>page 71 |
|                                                                                                                |                                           | 24 DC                                      |                                            | +IZM-UVR24DC<br>122748                                                                                     |                            |                                                                                                                                                                                     |
|                                                                                                                |                                           | 32 DC                                      |                                            | IZM-UVR32DC<br>122947                                                                                      |                            |                                                                                                                                                                                     |
|                                                                                                                |                                           | 32 DC                                      |                                            | +IZM-UVR32DC<br>122749                                                                                     |                            |                                                                                                                                                                                     |
|                                                                                                                |                                           | 48 DC                                      |                                            | IZM-UVR48DC<br>122948                                                                                      |                            |                                                                                                                                                                                     |
|                                                                                                                |                                           | 48 DC                                      |                                            | +IZM-UVR48DC<br>122750                                                                                     |                            |                                                                                                                                                                                     |
|                                                                                                                |                                           | 110 - 125 DC                               |                                            | IZM-UVR110DC<br>122949                                                                                     |                            |                                                                                                                                                                                     |
|                                                                                                                |                                           | 110 - 125 DC                               |                                            | +IZM-UVR110DC<br>122751                                                                                    |                            |                                                                                                                                                                                     |
|                                                                                                                |                                           | 220 - 250 DC                               |                                            | IZM-UVR220DC<br>122950                                                                                     |                            |                                                                                                                                                                                     |
|                                                                                                                |                                           | 220 - 250 DC                               |                                            | +IZM-UVR220DC<br>122752                                                                                    |                            |                                                                                                                                                                                     |
|                                                                                                                |                                           | 110 - 127 AC                               |                                            | IZM-UVR110AC<br>122951                                                                                     |                            |                                                                                                                                                                                     |
|                                                                                                                |                                           | 110 - 127 AC                               |                                            | +IZM-UVR110AC<br>122753                                                                                    |                            |                                                                                                                                                                                     |
|                                                                                                                |                                           | 208 - 240 AC                               |                                            | IZM-UVR230AC<br>122952                                                                                     |                            |                                                                                                                                                                                     |
|                                                                                                                |                                           | 208 - 240 AC                               |                                            | +IZM-UVR230AC<br>122754                                                                                    |                            |                                                                                                                                                                                     |
|                                                                                                                |                                           | 380 - 415 AC                               |                                            | IZM-UVR400AC<br>122953                                                                                     |                            |                                                                                                                                                                                     |
|                                                                                                                |                                           | 380 - 415 AC                               |                                            | +IZM-UVR400AC<br>122755                                                                                    |                            |                                                                                                                                                                                     |
|                                                                                                                |                                           | 480 AC                                     |                                            | IZM-UVR480AC<br>122954                                                                                     |                            |                                                                                                                                                                                     |
|                                                                                                                |                                           | 480 AC                                     |                                            | +IZM-UVR480AC<br>122756                                                                                    |                            |                                                                                                                                                                                     |
|                                                                                                                |                                           | 600 AC                                     |                                            | IZM-UVR600AC<br>122955                                                                                     |                            |                                                                                                                                                                                     |
|                                                                                                                |                                           | 600 AC                                     |                                            | +IZM-UVR600AC<br>122757                                                                                    |                            |                                                                                                                                                                                     |
| Time delay modules<br>For combination with an undervoltage release. Time settings: 0.1 s, 0.5 s, 1.0 s, 2.0 s. |                                           |                                            |                                            |                                                                                                            |                            |                                                                                                                                                                                     |
|                                                                                                                | Only in combination<br>with IZM-UVR110AC. | 120 AC                                     | IZM20, 32, 40, 63...<br>IN20, 32,40, 63... | IZM-UVR-TD-120AC<br>122956                                                                                 |                            | —                                                                                                                                                                                   |
|                                                                                                                | Only in combination<br>with IZM-UVR230AC. | 230 AC                                     |                                            | IZM-UVR-TD-230AC<br>122957                                                                                 |                            |                                                                                                                                                                                     |

| For use with                                                                                                                                                                                                                                      |                              | Part no.<br>Article no.                                                  | Price<br>see price list                                                  | Notes                                                                                                                                                                         |                                                                                                                                                                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                   |                              | Part no. suffix „+IZM...“<br>Article no. when ordered<br>with basic unit |                                                                          |                                                                                                                                                                               |                                                                                                                                                                               |
| Auxiliary contacts                                                                                                                                                                                                                                |                              |                                                                          |                                                                          |                                                                                                                                                                               |                                                                                                                                                                               |
| Standard auxiliary contacts<br>2 CO auxiliary contacts already belong to the basic device.<br>Maximum for IZM20, IN20: 4 CO (= additionally two AS22).<br>Maximum for IZM32, IZM40, IZM63: 6 CO.<br>6 CO only possible without second shunt trip. |                              |                                                                          |                                                                          |                                                                                                                                                                               |                                                                                                                                                                               |
|                                                                                                                                                                  | 2 CO additionally            | IZM20, 32, 40, 63...<br>IN20, 32, 40, 63...                              | +IZM-AS22<br>122758                                                      | –                                                                                                                                                                             |                                                                                                                                                                               |
|                                                                                                                                                                                                                                                   | 4 CO additionally            |                                                                          | +IZM-AS44<br>122759                                                      | Not in combination with second<br>shunt trip, not in combination with<br>IZM20, IN20.                                                                                         |                                                                                                                                                                               |
|                                                                                                                                                                                                                                                   | 2 CO additionally            |                                                                          | IZM-AS22<br>122958                                                       | When ordering separately, an<br>IZM-SEC... secondary terminal block<br>is required for the connection. Order<br>separately if required. → Terminal<br>assignment plan page 71 |                                                                                                                                                                               |
| Latch check switches<br>Latch check switch = ready-to-close signal with one change-over contact (1 CO).                                                                                                                                           |                              |                                                                          |                                                                          |                                                                                                                                                                               |                                                                                                                                                                               |
|                                                                                                                                                                  | –                            | IZM20, 32, 40, 63...<br>IN20, 32, 40, 63...                              | IZM-LCS-SR<br>122974                                                     | internally wired to spring release                                                                                                                                            |                                                                                                                                                                               |
|                                                                                                                                                                                                                                                   |                              |                                                                          | +IZM-LCS-SR<br>122760                                                    | internally wired to spring release                                                                                                                                            |                                                                                                                                                                               |
|                                                                                                                                                                                                                                                   |                              |                                                                          | IZM-LCS<br>122959                                                        | for external signalling                                                                                                                                                       |                                                                                                                                                                               |
|                                                                                                                                                                                                                                                   |                              |                                                                          | +IZM-LCS<br>122761                                                       | for external signalling                                                                                                                                                       |                                                                                                                                                                               |
|                                                                                                                                                                                                                                                   |                              |                                                                          |                                                                          |                                                                                                                                                                               |                                                                                                                                                                               |
| Rated control voltage<br>$U_s$<br>V                                                                                                                                                                                                               |                              | For use with                                                             | Part no.<br>Article no.                                                  | Price<br>see price list                                                                                                                                                       | Notes                                                                                                                                                                         |
|                                                                                                                                                                                                                                                   |                              |                                                                          | Part no. suffix „+IZM...“<br>Article no. when ordered<br>with basic unit |                                                                                                                                                                               |                                                                                                                                                                               |
| Trip indication and reset options                                                                                                                                                                                                                 |                              |                                                                          |                                                                          |                                                                                                                                                                               |                                                                                                                                                                               |
| Overcurrent trip switch (OTS)<br>2 CO contacts                                                                                                                                                                                                    |                              |                                                                          |                                                                          |                                                                                                                                                                               |                                                                                                                                                                               |
|                                                                                                                                                                | –                            | IZM20, 32, 40, 63...                                                     | IZM-OTS<br>122960                                                        |                                                                                                                                                                               | When ordering separately, an<br>IZM-SEC... secondary terminal block<br>is required for the connection. Order<br>separately if required. → Terminal<br>assignment plan page 71 |
|                                                                                                                                                                                                                                                   |                              |                                                                          | +IZM-OTS<br>122762                                                       |                                                                                                                                                                               |                                                                                                                                                                               |
| Remote reset<br>Via an electrical command the trip indicating auxiliary contact and the red pop-out<br>indicator can be resetted remotely.<br>Not in combination with automatic reset.                                                            |                              |                                                                          |                                                                          |                                                                                                                                                                               |                                                                                                                                                                               |
|                                                                                                                                                                                                                                                   | 220 - 250 DC<br>208 - 240 AC | IZM20, 32, 40, 63...                                                     | IZM-RR230AD<br>122963                                                    |                                                                                                                                                                               | When ordering separately, an<br>IZM-SEC... secondary terminal block<br>is required for the connection. Order<br>separately if required. → Terminal<br>assignment plan page 71 |
|                                                                                                                                                                                                                                                   | 220 - 250 DC<br>208 - 240 AC |                                                                          | +IZM-RR230AD<br>122765                                                   |                                                                                                                                                                               |                                                                                                                                                                               |
|                                                                                                                                                                                                                                                   | 24 DC                        |                                                                          | IZM-RR24DC<br>122961                                                     |                                                                                                                                                                               |                                                                                                                                                                               |
|                                                                                                                                                                                                                                                   | 24 DC                        |                                                                          | +IZM-RR24DC<br>122763                                                    |                                                                                                                                                                               |                                                                                                                                                                               |
|                                                                                                                                                                                                                                                   | 110 - 125 DC<br>110 - 127 AC |                                                                          | IZM-RR110AD<br>122962                                                    |                                                                                                                                                                               |                                                                                                                                                                               |
|                                                                                                                                                                                                                                                   | 110 - 125 DC<br>110 - 127 AC |                                                                          | +IZM-RR110AD<br>122764                                                   |                                                                                                                                                                               |                                                                                                                                                                               |
| Automatic reset<br>The circuit-breaker is directly after tripping back in the ready-to-close status. The<br>breaker is not equipped with the red pop-out indicator. Not in combination with<br>remote reset.                                      |                              |                                                                          |                                                                          |                                                                                                                                                                               |                                                                                                                                                                               |
|                                                                                                                                                                                                                                                   | –                            | IZM20, 32, 40, 63...                                                     | IZM-RA<br>122964                                                         |                                                                                                                                                                               | –                                                                                                                                                                             |
|                                                                                                                                                                                                                                                   |                              |                                                                          | +IZM-RA<br>122766                                                        |                                                                                                                                                                               |                                                                                                                                                                               |

|                                                                                                                                                                                                                                    |                                                                      | For use with                                  | Part no.<br>Article no.                                                  | Price<br>see price list |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------|--------------------------------------------------------------------------|-------------------------|
|                                                                                                                                                                                                                                    |                                                                      |                                               | Part no. suffix „+IZM...“<br>Article no. when ordered<br>with basic unit |                         |
| Locking facilities                                                                                                                                                                                                                 |                                                                      |                                               |                                                                          |                         |
| Padlockable pushbutton covers                                                                                                                                                                                                      |                                                                      |                                               |                                                                          |                         |
| Padlockable and sealable pushbutton cover                                                                                                                                                                                          |                                                                      |                                               |                                                                          |                         |
|                                                                                                                                                   | Metal, ON-button blocked                                             | IZM20, 32, 40, 63...<br>IN20, 32, 40, 63...   | +IZM-PLPC-CB-M<br>125820                                                 |                         |
|                                                                                                                                                                                                                                    | Plastic, ON-button blocked                                           |                                               | +IZM-PLPC-CB-P<br>125649                                                 |                         |
|                                                                                                                                                                                                                                    | Metal                                                                |                                               | IZM-PLPC-M<br>122966                                                     |                         |
|                                                                                                                                                                                                                                    | Metal                                                                |                                               | +IZM-PLPC-M<br>122768                                                    |                         |
|                                                                                                                                                                                                                                    | Plastic                                                              |                                               | IZM-PLPC-P<br>122965                                                     |                         |
|                                                                                                                                                                                                                                    | Plastic                                                              |                                               | +IZM-PLPC-P<br>122767                                                    |                         |
| Key locking in OFF (Safe-OFF)                                                                                                                                                                                                      |                                                                      |                                               |                                                                          |                         |
|                                                                                                                                                                                                                                    | CES keylock interlocking kit, with cylinder and keys                 | IZM20, 32, 40, 63...<br>IN20, 32, 40, 63...   | IZM-KLC-SO-CES<br>122967                                                 |                         |
|                                                                                                                                                                                                                                    | CES keylock interlocking kit, with cylinder and keys                 |                                               | +IZM-KLC-SO-CES<br>122769                                                |                         |
|                                                                                                                                                                                                                                    | CES keylock interlocking provision,<br>without cylinder and keys     |                                               | IZM-KLP-SO-CES<br>122968                                                 |                         |
|                                                                                                                                                                                                                                    | CES keylock interlocking provision,<br>without cylinder and keys     |                                               | +IZM-KLP-SO-CES<br>122770                                                |                         |
|                                                                                                                                                                                                                                    | Kirk keylock interlocking provision,<br>without cylinder and keys    |                                               | IZM-KLP-SO-KIRK<br>122969                                                |                         |
|                                                                                                                                                                                                                                    | Kirk keylock interlocking provision,<br>without cylinder and keys    |                                               | +IZM-KLP-SO-KIRK<br>122771                                               |                         |
|                                                                                                                                                                                                                                    | Castell keylock interlocking provision,<br>without cylinder and keys |                                               | IZM-KLP-SO-CASTELL<br>122970                                             |                         |
|                                                                                                                                                                                                                                    | Castell keylock interlocking provision,<br>without cylinder and keys |                                               | +IZM-KLP-SO-CASTELL<br>122772                                            |                         |
|                                                                                                                                                                                                                                    | Ronis keylock interlocking provision,<br>without cylinder and keys   |                                               | IZM-KLP-SO-RONIS<br>122971                                               |                         |
|                                                                                                                                                                                                                                    | Ronis keylock interlocking provision,<br>without cylinder and keys   |                                               | +IZM-KLP-SO-RONIS<br>122773                                              |                         |
| Cassette key lock provisions                                                                                                                                                                                                       |                                                                      |                                               |                                                                          |                         |
| When installed, the device holds the breaker trip-free when the breaker is levered to the CONNECTED position. This prevents the breaker from being closed and circuit energized. Lock provided and fitted to cassette by customer. |                                                                      |                                               |                                                                          |                         |
|                                                                                                                                                                                                                                    | Mounting on right side                                               | IZM20, 32, 40, 63...W<br>IN20, 32, 40, 63...W | IZM-KLP-CASS-R<br>122972                                                 |                         |
|                                                                                                                                                                                                                                    | Mounting on left side                                                |                                               | IZM-KLP-CASS-L<br>122973                                                 |                         |

|                                                                                                                                                                                                                                                                 | For use with                                  | Part no.<br>Article no.   | Price<br>see price list |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|---------------------------|-------------------------|
| Locking facilities                                                                                                                                                                                                                                              |                                               |                           |                         |
| Mechanical interlocking for fixed type breakers                                                                                                                                                                                                                 |                                               |                           |                         |
| Type 2, across 2 breakers: One normal power supply (A), one emergency power supply (B). Also requires 1 cable kit.                                                                                                                                              | IZM20, 32, 40, 63...F<br>IN20, 32, 40, 63...F | IZM-MIL2C-F<br>122980     |                         |
| Type 31, across 3 breakers: One normal power supply (A), one emergency power supply (B). Also requires 1 cable kit.Two normal power supplies (A + C), one emergency power supply (B). Circuit breakers A and C can be closed if B is open. B can only be closed |                                               | IZM-MIL31C-F<br>122981    |                         |
| Type 32, across 3 breakers: Two power supplies (A + C), one bus tie breaker (B). One or two breakers out of 3 can be closed at the same time. Also requires 3 cable kits.                                                                                       |                                               | IZM-MIL32C-F<br>122982    |                         |
| Type 33, across 3 breakers: Three power supplies (A, B + C). normal or emergency, only one of which can be closed at a time. Also requires 3 cable kits                                                                                                         |                                               | IZM-MIL33C-F<br>122983    |                         |
| Mechanical interlocking for withdrawable breakers                                                                                                                                                                                                               |                                               |                           |                         |
| Type 2, across 2 breakers: One normal power supply (A), one emergency power supply (B). Also requires 1 cable kit.                                                                                                                                              | IZM20, 32, 40, 63...W<br>IN20, 32, 40, 63...W | IZM-MIL2C-W<br>122985     |                         |
| Type 31, across 3 breakers: One normal power supply (A), one emergency power supply (B). Also requires 1 cable kit.Two normal power supplies (A + C), one emergency power supply (B). Circuit breakers A and C can be closed if B is open. B can only be closed |                                               | IZM-MIL31C-W<br>122986    |                         |
| Type 32, across 3 breakers: Two power supplies (A + C), one bus tie breaker (B). One or two breakers out of 3 can be closed at the same time. Also requires 3 cable kits.                                                                                       |                                               | IZM-MIL32C-W<br>122987    |                         |
| Type 33, across 3 breakers: Three power supplies (A, B + C). normal or emergency, only one of which can be closed at a time. Also requires 3 cable kits                                                                                                         |                                               | IZM-MIL33C-W<br>122988    |                         |
| Cable kits for mechanical interlocking<br>Depending on the type of mechanical interlocking different sets of cables required.<br>Cables can be used for any orientation of the breakers. 1 kit consists of 2 cables.                                            |                                               |                           |                         |
| 1520 mm long                                                                                                                                                                                                                                                    | IZM20, 32, 40, 63...<br>IN20, 32, 40, 63...   | IZM-MIL-CAB1520<br>122975 |                         |
| 1830 mm long                                                                                                                                                                                                                                                    |                                               | IZM-MIL-CAB1830<br>122976 |                         |
| 2440 mm long                                                                                                                                                                                                                                                    |                                               | IZM-MIL-CAB2440<br>122977 |                         |
| 3050 mm long                                                                                                                                                                                                                                                    |                                               | IZM-MIL-CAB3050<br>122978 |                         |

|                                                                                                                                                                                                     | Rated control<br>voltage<br>$U_s$<br>V | For use with                     | Part no.<br>Article no.<br><br>Part no. suffix<br>„+IZM...“<br>Article no. when ordered<br>with basic unit | Price<br>see<br>price list | Notes                                                                                                        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|----------------------------------|------------------------------------------------------------------------------------------------------------|----------------------------|--------------------------------------------------------------------------------------------------------------|
| <b>Trip unit options and accessories</b>                                                                                                                                                            |                                        |                                  |                                                                                                            |                            |                                                                                                              |
| Standard equipment for the basic circuit-breaker devices includes one of the following trip units (DT = Digitrip):                                                                                  |                                        |                                  |                                                                                                            |                            |                                                                                                              |
| <ul style="list-style-type: none"> <li>• A-type: DT-520LI</li> <li>• V-type: DT-520LSI</li> <li>• U-type: DT-520MC</li> <li>• P-type: DT-1150</li> </ul>                                            |                                        |                                  |                                                                                                            |                            |                                                                                                              |
| Add-on function for the Selective Type (V) Digitrip 520LSI                                                                                                                                          |                                        |                                  |                                                                                                            |                            |                                                                                                              |
| Earth-Fault Protection                                                                                                                                                                              | –                                      | IZM...-V...<br>(Digitrip 520LSI) | +IZM-DTV-EP<br>122776                                                                                      |                            | –                                                                                                            |
| Add-on functions for the Universal Type (U) Digitrip 520MC                                                                                                                                          |                                        |                                  |                                                                                                            |                            |                                                                                                              |
| Standard U-type includes:                                                                                                                                                                           |                                        |                                  |                                                                                                            |                            |                                                                                                              |
| <ul style="list-style-type: none"> <li>• COM-capability</li> <li>• High load alarm with contact</li> <li>• Standard U-type is prepared for external supply 24/48 V DC (e.g. for display)</li> </ul> |                                        |                                  |                                                                                                            |                            |                                                                                                              |
| Only one of these three options is possible at the same time: either EFP, EFA or HLA.                                                                                                               |                                        |                                  |                                                                                                            |                            |                                                                                                              |
| For the open field-bus communication an additional interface module (translator) IZM-DTUP-DP(MOD) is required.                                                                                      |                                        |                                  |                                                                                                            |                            |                                                                                                              |
| With high load alarm, prepared for 120 V AC external power supply instead of 24/48 V DC.                                                                                                            | 120 AC                                 | IZM...-U...<br>(Digitrip 520MC)  | +IZM-DTU-HA1<br>122778                                                                                     |                            | Not in combination with earth-fault protection or earth-fault alarm.                                         |
| With high load alarm, prepared for 240 V AC external power supply instead of 24/48 V DC.                                                                                                            | 240 AC                                 |                                  | +IZM-DTU-HA2<br>122779                                                                                     |                            | Not in combination with earth-fault protection or earth-fault alarm.                                         |
| With Earth-fault protection instead of high load alarm, prepared for 24/48 V DC.                                                                                                                    | 24/48 DC                               |                                  | +IZM-DTU-EP<br>122780                                                                                      |                            | Not in combination with high load alarm or earth-fault alarm.                                                |
| With Earth-fault protection instead of high load alarm, prepared for 120 V AC.                                                                                                                      | 120 AC                                 |                                  | +IZM-DTU-EP1<br>122781                                                                                     |                            | Not in combination with high load alarm or earth-fault alarm.                                                |
| With Earth-fault protection instead of high load alarm, prepared for 240 V AC.                                                                                                                      | 240 AC                                 |                                  | +IZM-DTU-EP2<br>122782                                                                                     |                            | Not in combination with high load alarm or earth-fault alarm.                                                |
| With Earth-fault alarm instead of high load alarm, prepared for 24/48 V DC.                                                                                                                         | 24/48 DC                               |                                  | +IZM-DTU-EA<br>122783                                                                                      |                            | Not in combination with high load alarm or earth-fault protection.                                           |
| With Earth-fault alarm instead of high load alarm, prepared for 120 V AC.                                                                                                                           | 120 AC                                 |                                  | +IZM-DTU-EA1<br>122784                                                                                     |                            | Not in combination with high load alarm or earth-fault protection.                                           |
| With Earth-fault alarm instead of high load alarm, prepared for 240 V AC.                                                                                                                           | 240 AC                                 |                                  | +IZM-DTU-EA2<br>122785                                                                                     |                            | Not in combination with high load alarm or earth-fault protection.                                           |
| The Arcflash Reduction Maintenance System™ (ARMS) can improve safety by providing a simple and reliable method to reduce fault clearing time. Needs to be activated deliberately.                   | –                                      |                                  | +IZM-DTU-ARMS<br>122791                                                                                    |                            | –                                                                                                            |
| Performance reduced NC: The U-type electronics comes without communication capability.                                                                                                              | –                                      |                                  | +IZM-DTU-NC<br>122790                                                                                      |                            | Not in combination with:<br>• IZM-DTU-NPC<br>• IZM-DTU-ARMS                                                  |
| Performance reduced NPC: The U-type electronics comes without communication capability & without preparation for external power supply.                                                             | –                                      |                                  | +IZM-DTU-NPC<br>122788                                                                                     |                            | Only for basic U-type breaker or in combination with IZM-DTU-EP; no combination with other options possible. |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Rated control voltage<br>$U_s$<br>V                 | For use with                                                                                 | Part no.<br>Article no.<br><br>Part no. suffix<br>„+IZM...“<br>Article no. when ordered<br>with basic unit | Price<br>see<br>price list    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-------------------------------|
| <b>Add-on functions for the Power Measurement Type (P) Digitrip 1150</b>                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                     |                                                                                              |                                                                                                            |                               |
| Standard P-type includes: <ul style="list-style-type: none"><li>• Power measurement</li><li>• Internal voltage sensing</li><li>• COM-capability</li><li>• High load alarm with contact</li><li>• Standard P-type is prepared for external supply 24/48 V DC (e.g. for display).</li></ul> EFP and EFA is one combined option (IZM-DTP-EPA). Options EPA + HLA are possible at the same time.<br>For the open field-bus communication an additional interface module (translator) IZM-DTUP-DP(MOD) is required. |                                                     |                                                                                              |                                                                                                            |                               |
| With high load alarm, prepared for 120 V AC external power supply instead of 24/48 V DC.                                                                                                                                                                                                                                                                                                                                                                                                                       | 120 AC                                              | IZM...-P...<br>(Digitrip 1150)                                                               | <b>+IZM-DTP1</b><br>122895                                                                                 |                               |
| With high load alarm, prepared for 240 V AC external power supply instead of 24/48 V DC.                                                                                                                                                                                                                                                                                                                                                                                                                       | 240 AC                                              |                                                                                              | <b>+IZM-DTP2</b><br>122906                                                                                 |                               |
| With additional Earth-fault protection and alarm, prepared for 24/48 V DC.                                                                                                                                                                                                                                                                                                                                                                                                                                     | 24/48 DC                                            |                                                                                              | <b>+IZM-DTP-EPA</b><br>122915                                                                              |                               |
| With additional Earth-fault protection and alarm, prepared for 120 V AC.                                                                                                                                                                                                                                                                                                                                                                                                                                       | 120 AC                                              |                                                                                              | <b>+IZM-DTP-EPA1</b><br>122916                                                                             |                               |
| With additional Earth-fault protection and alarm, prepared for 240 V AC.                                                                                                                                                                                                                                                                                                                                                                                                                                       | 240 AC                                              |                                                                                              | <b>+IZM-DTP-EPA2</b><br>122938                                                                             |                               |
| The Arcflash Reduction Maintenance System™ can improve safety by providing a simple and reliable method to reduce fault clearing time. Needs to be activated deliberately.                                                                                                                                                                                                                                                                                                                                     | —                                                   |                                                                                              | <b>+IZM-DTP-ARMS</b><br>122939                                                                             |                               |
| Power-flow direction bottom to top: Changes the standard line side from top to bottom, which is relevant for correct power measurement.                                                                                                                                                                                                                                                                                                                                                                        | —                                                   |                                                                                              | <b>+IZM-DTP-PFBT</b><br>122990                                                                             |                               |
| Trip link transfers all protection settings from one breaker to another for e.g. replacing the breaker with its clone for maintenance purposes.                                                                                                                                                                                                                                                                                                                                                                | —                                                   |                                                                                              | <b>IZM-DTP-TL</b><br>122989                                                                                |                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                     |                                                                                              |                                                                                                            |                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Rated control voltage<br>$U_s$<br>V                 | For use with                                                                                 | Part no.<br>Article no.                                                                                    | Price<br>see<br>price list    |
| <b>Field-bus communication for Digitrip 520MC and 1150</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                     |                                                                                              |                                                                                                            |                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                             | Translator INCOM to PROFIBUS for DIN rail mounting. | —                                                                                            | IZM...-U... (Digitrip 520MC)<br>IZM...-P... (Digitrip 1150)                                                | <b>IZM-DTUP-DP</b><br>122991  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Translator INCOM to MODBUS for DIN rail mounting.   |                                                                                              |                                                                                                            | <b>IZM-DTUP-MOD</b><br>122992 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                     |                                                                                              |                                                                                                            |                               |
| <b>Trip unit test devices</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                     |                                                                                              |                                                                                                            |                               |
| Hand-held tester for Digitrip 520LI (A-type), Digitrip 520LSI (V-type) and Digitrip 520MC (U-type) trip units.The Digitrip 1150 (P-type) provides an integrated test feature.                                                                                                                                                                                                                                                                                                                                  | 120 AC                                              | IZM...-A... (Digitrip 520LI)<br>IZM...-V... (Digitrip 520LSI)<br>IZM...-U... (Digitrip 520M) | <b>IZM-TEST-120VAC</b><br>122993                                                                           |                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 240 AC                                              |                                                                                              | <b>IZM-TEST-230VAC</b><br>122994                                                                           |                               |

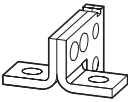
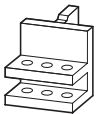
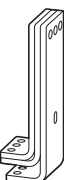
|                                                                                   | Rated current<br>$I_n$<br>A | No. of poles | For use with                              | Part no.<br>Article no.   | Price<br>see price list |
|-----------------------------------------------------------------------------------|-----------------------------|--------------|-------------------------------------------|---------------------------|-------------------------|
| <b>Phase current sensors and rating plugs</b>                                     |                             |              |                                           |                           |                         |
| These sets are used when higher rated basic devices should be derated.            |                             |              |                                           |                           |                         |
|  | 200                         | 3            | IZM20...<br>800 A $\leq I_u \leq$ 2000 A  | IZM-RP203-200<br>122995   |                         |
|                                                                                   | 200                         | 3            | IZM20...<br>800 A $\leq I_u \leq$ 2000 A  | +IZM-RP203-200<br>122793  |                         |
|                                                                                   | 250                         | 3            | IZM20...<br>800 A $\leq I_u \leq$ 2000 A  | IZM-RP203-250<br>122996   |                         |
|                                                                                   | 250                         | 3            | IZM20...<br>800 A $\leq I_u \leq$ 2000 A  | +IZM-RP203-250<br>122794  |                         |
|                                                                                   | 300                         | 3            | IZM20...<br>800 A $\leq I_u \leq$ 2000 A  | IZM-RP203-300<br>122997   |                         |
|                                                                                   | 300                         | 3            | IZM20...<br>800 A $\leq I_u \leq$ 2000 A  | +IZM-RP203-300<br>122795  |                         |
|                                                                                   | 400                         | 3            | IZM20...<br>800 A $\leq I_u \leq$ 2000 A  | IZM-RP203-400<br>122998   |                         |
|                                                                                   | 400                         | 3            | IZM20...<br>800 A $\leq I_u \leq$ 2000 A  | +IZM-RP203-400<br>122796  |                         |
|                                                                                   | 630                         | 3            | IZM20...<br>800 A $\leq I_u \leq$ 2000 A  | IZM-RP203-630<br>122999   |                         |
|                                                                                   | 630                         | 3            | IZM20...<br>800 A $\leq I_u \leq$ 2000 A  | +IZM-RP203-630<br>122797  |                         |
|                                                                                   | 800                         | 3            | IZM20...<br>800 A $\leq I_u \leq$ 2000 A  | IZM-RP203-800<br>123000   |                         |
|                                                                                   | 800                         | 3            | IZM20...<br>800 A $\leq I_u \leq$ 2000 A  | +IZM-RP203-800<br>122798  |                         |
|                                                                                   | 1000                        | 3            | IZM20...<br>1000 A $\leq I_u \leq$ 2000 A | IZM-RP203-1000<br>123001  |                         |
|                                                                                   | 1000                        | 3            | IZM20...<br>1000 A $\leq I_u \leq$ 2000 A | +IZM-RP203-1000<br>122799 |                         |
|                                                                                   | 1250                        | 3            | IZM20...<br>1250 A $\leq I_u \leq$ 2000 A | IZM-RP203-1250<br>123002  |                         |
|                                                                                   | 1250                        | 3            | IZM20...<br>1250 A $\leq I_u \leq$ 2000 A | +IZM-RP203-1250<br>122800 |                         |
|                                                                                   | 1600                        | 3            | IZM20...<br>1600 A $\leq I_u \leq$ 2000 A | IZM-RP203-1600<br>123003  |                         |
|                                                                                   | 1600                        | 3            | IZM20...<br>1600 A $\leq I_u \leq$ 2000 A | +IZM-RP203-1600<br>122801 |                         |
|                                                                                   | 2000                        | 3            | IZM20...<br>2000 A                        | IZM-RP203-2000<br>123004  |                         |
|                                                                                   | 200                         | 3            | IZM32...<br>800 A $\leq I_u \leq$ 3200 A  | IZM-RP323-200<br>123005   |                         |
|                                                                                   | 200                         | 3            | IZM32...<br>800 A $\leq I_u \leq$ 3200 A  | +IZM-RP323-200<br>122803  |                         |
|                                                                                   | 250                         | 3            | IZM32...<br>800 A $\leq I_u \leq$ 3200 A  | IZM-RP323-250<br>123006   |                         |
|                                                                                   | 250                         | 3            | IZM32...<br>800 A $\leq I_u \leq$ 3200 A  | +IZM-RP323-250<br>122804  |                         |
|                                                                                   | 300                         | 3            | IZM32...<br>800 A $\leq I_u \leq$ 3200 A  | IZM-RP323-300<br>123007   |                         |
|                                                                                   | 300                         | 3            | IZM32...<br>800 A $\leq I_u \leq$ 3200 A  | +IZM-RP323-300<br>122805  |                         |
|                                                                                   | 400                         | 3            | IZM32...<br>800 A $\leq I_u \leq$ 3200 A  | IZM-RP323-400<br>123008   |                         |
|                                                                                   | 400                         | 3            | IZM32...<br>800 A $\leq I_u \leq$ 3200 A  | +IZM-RP323-400<br>122806  |                         |
|                                                                                   | 630                         | 3            | IZM32...<br>800 A $\leq I_u \leq$ 3200 A  | IZM-RP323-630<br>123009   |                         |
|                                                                                   | 630                         | 3            | IZM32...<br>800 A $\leq I_u \leq$ 3200 A  | +IZM-RP323-630<br>122807  |                         |
|                                                                                   | 800                         | 3            | IZM32...<br>800 A $\leq I_u \leq$ 3200 A  | IZM-RP323-800<br>123010   |                         |
|                                                                                   | 800                         | 3            | IZM32...<br>800 A $\leq I_u \leq$ 3200 A  | +IZM-RP323-800<br>122808  |                         |

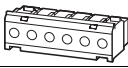
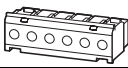
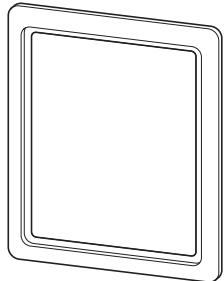
|                                                                                   | Rated current<br>$I_n$<br>A | No. of poles | For use with                              | Part no.<br>Article no.<br><br>Part no. suffix „+IZM...“<br>Article no. when ordered<br>with basic unit | Price<br>see price list |
|-----------------------------------------------------------------------------------|-----------------------------|--------------|-------------------------------------------|---------------------------------------------------------------------------------------------------------|-------------------------|
| <b>Phase current sensors and rating plugs</b>                                     |                             |              |                                           |                                                                                                         |                         |
| These sets are used when higher rated basic devices should be derated.            |                             |              |                                           |                                                                                                         |                         |
|  | 1000                        | 3            | IZM32...<br>$1000 A \leq I_u \leq 3200 A$ | IZM-RP323-1000<br>123011                                                                                |                         |
|                                                                                   | 1000                        | 3            | IZM32...<br>$1000 A \leq I_u \leq 3200 A$ | +IZM-RP323-1000<br>122809                                                                               |                         |
|                                                                                   | 1250                        | 3            | IZM32...<br>$1250 A \leq I_u \leq 3200 A$ | IZM-RP323-1250<br>123012                                                                                |                         |
|                                                                                   | 1250                        | 3            | IZM32...<br>$1250 A \leq I_u \leq 3200 A$ | +IZM-RP323-1250<br>122810                                                                               |                         |
|                                                                                   | 1600                        | 3            | IZM32...<br>$1600 A \leq I_u \leq 3200 A$ | IZM-RP323-1600<br>123013                                                                                |                         |
|                                                                                   | 1600                        | 3            | IZM32...<br>$1600 A \leq I_u \leq 3200 A$ | +IZM-RP323-1600<br>122811                                                                               |                         |
|                                                                                   | 2000                        | 3            | IZM32...<br>$2000 A \leq I_u \leq 3200 A$ | IZM-RP323-2000<br>123014                                                                                |                         |
|                                                                                   | 2000                        | 3            | IZM32...<br>$2000 A \leq I_u \leq 3200 A$ | +IZM-RP323-2000<br>122812                                                                               |                         |
|                                                                                   | 2500                        | 3            | IZM32...<br>$2500 A \leq I_u \leq 3200 A$ | IZM-RP323-2500<br>123015                                                                                |                         |
|                                                                                   | 2500                        | 3            | IZM32...<br>$2500 A \leq I_u \leq 3200 A$ | +IZM-RP323-2500<br>122813                                                                               |                         |
|                                                                                   | 3200                        | 3            | IZM32...<br>3200 A                        | IZM-RP323-3200<br>123016                                                                                |                         |
|                                                                                   | 2000                        | 3            | IZM40...<br>$2000 A \leq I_u \leq 4000 A$ | IZM-RP403-2000<br>123017                                                                                |                         |
|                                                                                   | 2000                        | 3            | IZM40...<br>$2000 A \leq I_u \leq 4000 A$ | +IZM-RP403-2000<br>122815                                                                               |                         |
|                                                                                   | 2500                        | 3            | IZM40...<br>$2500 A \leq I_u \leq 4000 A$ | IZM-RP403-2500<br>123018                                                                                |                         |
|                                                                                   | 2500                        | 3            | IZM40...<br>$2500 A \leq I_u \leq 4000 A$ | +IZM-RP403-2500<br>122816                                                                               |                         |
|                                                                                   | 3200                        | 3            | IZM40...<br>$3200 A \leq I_u \leq 4000 A$ | IZM-RP403-3200<br>123019                                                                                |                         |
|                                                                                   | 3200                        | 3            | IZM40...<br>$3200 A \leq I_u \leq 4000 A$ | +IZM-RP403-3200<br>122817                                                                               |                         |
|                                                                                   | 4000                        | 3            | IZM40...<br>4000 A                        | IZM-RP403-4000<br>122802                                                                                |                         |
|                                                                                   | 2000                        | 3            | IZM63...<br>4000 A                        | IZM-RP633-2000<br>124244                                                                                |                         |
|                                                                                   | 2000                        | 3            | IZM63...<br>4000 A                        | +IZM-RP633-2000<br>124319                                                                               |                         |
|                                                                                   | 2500                        | 3            | IZM63...<br>$4000 A \leq I_u \leq 5000 A$ | IZM-RP633-2500<br>124320                                                                                |                         |
|                                                                                   | 2500                        | 3            | IZM63...<br>$4000 A \leq I_u \leq 5000 A$ | +IZM-RP633-2500<br>124209                                                                               |                         |
|                                                                                   | 3200                        | 3            | IZM63...<br>$4000 A \leq I_u \leq 6300 A$ | IZM-RP633-3200<br>124210                                                                                |                         |
|                                                                                   | 3200                        | 3            | IZM63...<br>$4000 A \leq I_u \leq 6300 A$ | +IZM-RP633-3200<br>124374                                                                               |                         |
|                                                                                   | 4000                        | 3            | IZM63...<br>$4000 A \leq I_u \leq 6300 A$ | IZM-RP633-4000<br>123023                                                                                |                         |
|                                                                                   | 4000                        | 3            | IZM63...<br>$4000 A \leq I_u \leq 6300 A$ | +IZM-RP633-4000<br>122821                                                                               |                         |
|                                                                                   | 5000                        | 3            | IZM63...<br>$5000 A \leq I_u \leq 6300 A$ | IZM-RP633-5000<br>123024                                                                                |                         |
|                                                                                   | 5000                        | 3            | IZM63...<br>$5000 A \leq I_u \leq 6300 A$ | +IZM-RP633-5000<br>122822                                                                               |                         |
|                                                                                   | 6300                        | 3            | IZM63...<br>6300 A                        | IZM-RP633-6300<br>123025                                                                                |                         |

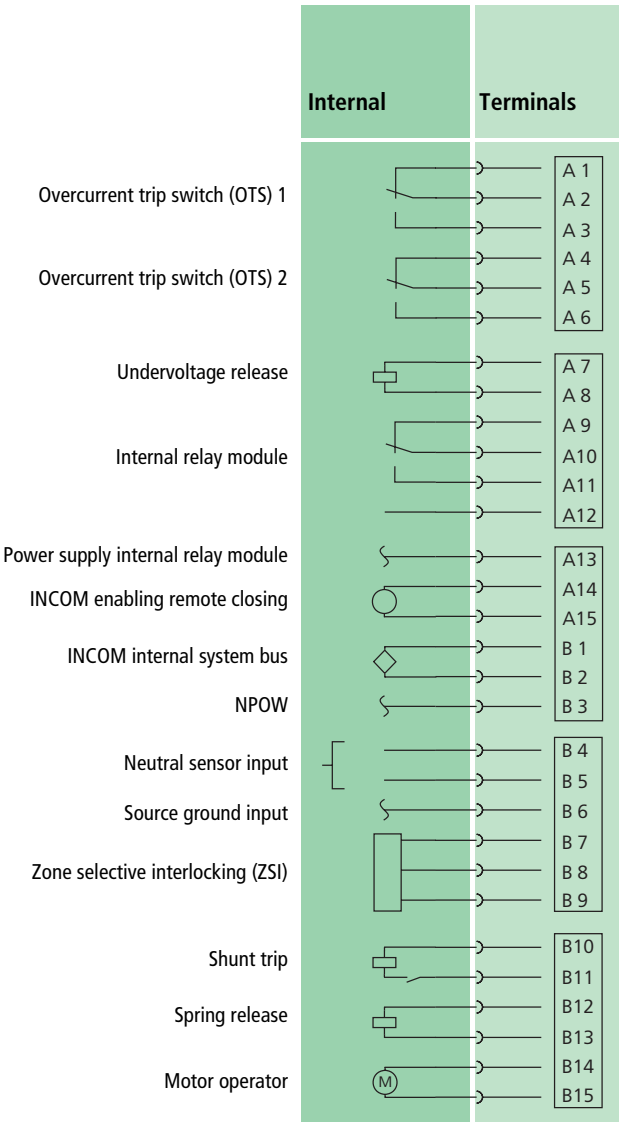
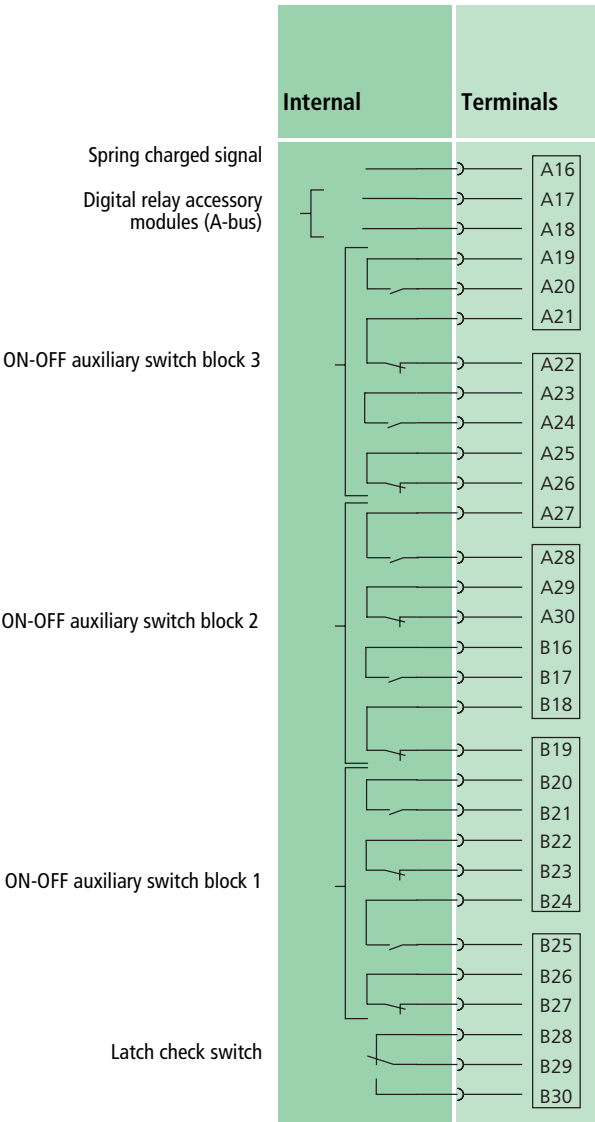
|                                                                                   | Rated current<br>$I_n$<br>A | No. of poles | For use with                              | Part no.<br>Article no.   | Price<br>see price list |
|-----------------------------------------------------------------------------------|-----------------------------|--------------|-------------------------------------------|---------------------------|-------------------------|
| <b>Phase current sensors and rating plugs</b>                                     |                             |              |                                           |                           |                         |
| These sets are used when higher rated basic devices should be derated.            |                             |              |                                           |                           |                         |
|  | 200                         | 4            | IZM20...<br>$800 A \leq I_u \leq 2000 A$  | IZM-RP204-200<br>123026   |                         |
|                                                                                   | 200                         | 4            | IZM20...<br>$800 A \leq I_u \leq 2000 A$  | +IZM-RP204-200<br>122824  |                         |
|                                                                                   | 250                         | 4            | IZM20...<br>$800 A \leq I_u \leq 2000 A$  | IZM-RP204-250<br>123027   |                         |
|                                                                                   | 250                         | 4            | IZM20...<br>$800 A \leq I_u \leq 2000 A$  | +IZM-RP204-250<br>122825  |                         |
|                                                                                   | 300                         | 4            | IZM20...<br>$800 A \leq I_u \leq 2000 A$  | IZM-RP204-300<br>123028   |                         |
|                                                                                   | 300                         | 4            | IZM20...<br>$800 A \leq I_u \leq 2000 A$  | +IZM-RP204-300<br>122826  |                         |
|                                                                                   | 400                         | 4            | IZM20...<br>$800 A \leq I_u \leq 2000 A$  | IZM-RP204-400<br>123029   |                         |
|                                                                                   | 400                         | 4            | IZM20...<br>$800 A \leq I_u \leq 2000 A$  | +IZM-RP204-400<br>122827  |                         |
|                                                                                   | 630                         | 4            | IZM20...<br>$800 A \leq I_u \leq 2000 A$  | IZM-RP204-630<br>123030   |                         |
|                                                                                   | 630                         | 4            | IZM20...<br>$800 A \leq I_u \leq 2000 A$  | +IZM-RP204-630<br>122828  |                         |
|                                                                                   | 800                         | 4            | IZM20...<br>$800 A \leq I_u \leq 2000 A$  | IZM-RP204-800<br>123031   |                         |
|                                                                                   | 800                         | 4            | IZM20...<br>$800 A \leq I_u \leq 2000 A$  | +IZM-RP204-800<br>122829  |                         |
|                                                                                   | 1000                        | 4            | IZM20...<br>$1000 A \leq I_u \leq 2000 A$ | IZM-RP204-1000<br>123032  |                         |
|                                                                                   | 1000                        | 4            | IZM20...<br>$1000 A \leq I_u \leq 2000 A$ | +IZM-RP204-1000<br>122830 |                         |
|                                                                                   | 1250                        | 4            | IZM20...<br>$1250 A \leq I_u \leq 2000 A$ | IZM-RP204-1250<br>123033  |                         |
|                                                                                   | 1250                        | 4            | IZM20...<br>$1250 A \leq I_u \leq 2000 A$ | +IZM-RP204-1250<br>122831 |                         |
|                                                                                   | 1600                        | 4            | IZM20...<br>$1600 A \leq I_u \leq 2000 A$ | IZM-RP204-1600<br>123034  |                         |
|                                                                                   | 1600                        | 4            | IZM20...<br>$1600 A \leq I_u \leq 2000 A$ | +IZM-RP204-1600<br>122832 |                         |
|                                                                                   | 2000                        | 4            | IZM20...<br>2000 A                        | IZM-RP204-2000<br>123035  |                         |
|                                                                                   | 200                         | 4            | IZM32...<br>$800 A \leq I_u \leq 3200 A$  | IZM-RP324-200<br>123036   |                         |
|                                                                                   | 200                         | 4            | IZM32...<br>$800 A \leq I_u \leq 3200 A$  | +IZM-RP324-200<br>122834  |                         |
|                                                                                   | 250                         | 4            | IZM32...<br>$800 A \leq I_u \leq 3200 A$  | IZM-RP324-250<br>123037   |                         |
|                                                                                   | 250                         | 4            | IZM32...<br>$800 A \leq I_u \leq 3200 A$  | +IZM-RP324-250<br>122835  |                         |
|                                                                                   | 300                         | 4            | IZM32...<br>$800 A \leq I_u \leq 3200 A$  | IZM-RP324-300<br>123038   |                         |
|                                                                                   | 300                         | 4            | IZM32...<br>$800 A \leq I_u \leq 3200 A$  | +IZM-RP324-300<br>122836  |                         |
|                                                                                   | 400                         | 4            | IZM32...<br>$800 A \leq I_u \leq 3200 A$  | IZM-RP324-400<br>123039   |                         |
|                                                                                   | 400                         | 4            | IZM32...<br>$800 A \leq I_u \leq 3200 A$  | +IZM-RP324-400<br>122837  |                         |
|                                                                                   | 630                         | 4            | IZM32...<br>$800 A \leq I_u \leq 3200 A$  | IZM-RP324-630<br>123040   |                         |
|                                                                                   | 630                         | 4            | IZM32...<br>$800 A \leq I_u \leq 3200 A$  | +IZM-RP324-630<br>122838  |                         |
|                                                                                   | 800                         | 4            | IZM32...<br>$800 A \leq I_u \leq 3200 A$  | IZM-RP324-800<br>123041   |                         |
|                                                                                   | 800                         | 4            | IZM32...<br>$800 A \leq I_u \leq 3200 A$  | +IZM-RP324-800<br>122839  |                         |

|                                                                                   | Rated current<br>$I_n$<br>A | No. of poles | For use with                              | Part no.<br>Article no.<br><br>Part no. suffix „+IZM...“<br>Article no. when ordered<br>with basic unit | Price<br>see price list |
|-----------------------------------------------------------------------------------|-----------------------------|--------------|-------------------------------------------|---------------------------------------------------------------------------------------------------------|-------------------------|
| <b>Phase current sensors and rating plugs</b>                                     |                             |              |                                           |                                                                                                         |                         |
| These sets are used when higher rated basic devices should be derated.            |                             |              |                                           |                                                                                                         |                         |
|  | 1000                        | 4            | IZM32...<br>$1000 A \leq I_u \leq 3200 A$ | IZM-RP324-1000<br>123042                                                                                |                         |
|                                                                                   | 1000                        | 4            | IZM32...<br>$1000 A \leq I_u \leq 3200 A$ | +IZM-RP324-1000<br>122840                                                                               |                         |
|                                                                                   | 1250                        | 4            | IZM32...<br>$1250 A \leq I_u \leq 3200 A$ | IZM-RP324-1250<br>123043                                                                                |                         |
|                                                                                   | 1250                        | 4            | IZM32...<br>$1250 A \leq I_u \leq 3200 A$ | +IZM-RP324-1250<br>122841                                                                               |                         |
|                                                                                   | 1600                        | 4            | IZM32...<br>$1600 A \leq I_u \leq 3200 A$ | IZM-RP324-1600<br>123044                                                                                |                         |
|                                                                                   | 1600                        | 4            | IZM32...<br>$1600 A \leq I_u \leq 3200 A$ | +IZM-RP324-1600<br>122842                                                                               |                         |
|                                                                                   | 2000                        | 4            | IZM32...<br>$2000 A \leq I_u \leq 3200 A$ | IZM-RP324-2000<br>123045                                                                                |                         |
|                                                                                   | 2000                        | 4            | IZM32...<br>$2000 A \leq I_u \leq 3200 A$ | +IZM-RP324-2000<br>122843                                                                               |                         |
|                                                                                   | 2500                        | 4            | IZM32...<br>$2500 A \leq I_u \leq 3200 A$ | IZM-RP324-2500<br>123046                                                                                |                         |
|                                                                                   | 2500                        | 4            | IZM32...<br>$2500 A \leq I_u \leq 3200 A$ | +IZM-RP324-2500<br>122844                                                                               |                         |
|                                                                                   | 3200                        | 4            | IZM32...<br>3200 A                        | IZM-RP324-3200<br>123047                                                                                |                         |
|                                                                                   | 2000                        | 4            | IZM40...<br>$2000 A \leq I_u \leq 4000 A$ | IZM-RP404-2000<br>123048                                                                                |                         |
|                                                                                   | 2000                        | 4            | IZM40...<br>$2000 A \leq I_u \leq 4000 A$ | +IZM-RP404-2000<br>122846                                                                               |                         |
|                                                                                   | 2500                        | 4            | IZM40...<br>$2500 A \leq I_u \leq 4000 A$ | IZM-RP404-2500<br>123049                                                                                |                         |
|                                                                                   | 2500                        | 4            | IZM40...<br>$2500 A \leq I_u \leq 4000 A$ | +IZM-RP404-2500<br>122847                                                                               |                         |
|                                                                                   | 3200                        | 4            | IZM40...<br>$3200 A \leq I_u \leq 4000 A$ | IZM-RP404-3200<br>123050                                                                                |                         |
|                                                                                   | 3200                        | 4            | IZM40...<br>$3200 A \leq I_u \leq 4000 A$ | +IZM-RP404-3200<br>122848                                                                               |                         |
|                                                                                   | 4000                        | 4            | IZM40...<br>4000 A                        | IZM-RP404-4000<br>122814                                                                                |                         |
|                                                                                   | 2000                        | 4            | IZM63...<br>4000 A                        | IZM-RP634-2000<br>124321                                                                                |                         |
|                                                                                   | 2000                        | 4            | IZM63...<br>4000 A                        | +IZM-RP634-2000<br>124264                                                                               |                         |
|                                                                                   | 2500                        | 4            | IZM63...<br>$4000 A \leq I_u \leq 5000 A$ | IZM-RP634-2500<br>124211                                                                                |                         |
|                                                                                   | 2500                        | 4            | IZM63...<br>$4000 A \leq I_u \leq 5000 A$ | +IZM-RP634-2500<br>124299                                                                               |                         |
|                                                                                   | 3200                        | 4            | IZM63...<br>$4000 A \leq I_u \leq 6300 A$ | IZM-RP634-3200<br>124322                                                                                |                         |
|                                                                                   | 3200                        | 4            | IZM63...<br>$4000 A \leq I_u \leq 6300 A$ | +IZM-RP634-3200<br>124354                                                                               |                         |
|                                                                                   | 4000                        | 4            | IZM63...<br>$4000 A \leq I_u \leq 6300 A$ | IZM-RP634-4000<br>123054                                                                                |                         |
|                                                                                   | 4000                        | 4            | IZM63...<br>$4000 A \leq I_u \leq 6300 A$ | +IZM-RP634-4000<br>122852                                                                               |                         |
|                                                                                   | 5000                        | 4            | IZM63...<br>$5000 A \leq I_u \leq 6300 A$ | IZM-RP634-5000<br>123055                                                                                |                         |
|                                                                                   | 5000                        | 4            | IZM63...<br>$5000 A \leq I_u \leq 6300 A$ | +IZM-RP634-5000<br>122853                                                                               |                         |
|                                                                                   | 6300                        | 4            | IZM63...<br>6300 A                        | IZM-RP634-6300<br>123056                                                                                |                         |

| Rated current<br>$I_n$<br>A                                                                            | For use with         | Part no.<br>Article no.       | Price<br>see price list |
|--------------------------------------------------------------------------------------------------------|----------------------|-------------------------------|-------------------------|
| <b>Neutral current sensors</b>                                                                         |                      |                               |                         |
| For neutral protection or comprehensive Earth-fault protection one sensor per 3 pole breaker required. |                      |                               |                         |
| 200                                                                                                    | IZM20...<br>IZM32... | <b>IZM-CTN-200</b><br>123057  |                         |
| 250                                                                                                    | IZM20...<br>IZM32... | <b>IZM-CTN-250</b><br>123058  |                         |
| 300                                                                                                    | IZM20...<br>IZM32... | <b>IZM-CTN-300</b><br>123059  |                         |
| 400                                                                                                    | IZM20...<br>IZM32... | <b>IZM-CTN-400</b><br>123060  |                         |
| 630                                                                                                    | IZM20...<br>IZM32... | <b>IZM-CTN-630</b><br>123061  |                         |
| 800                                                                                                    | IZM20...<br>IZM32... | <b>IZM-CTN-800</b><br>123062  |                         |
| 1000                                                                                                   | IZM20...<br>IZM32... | <b>IZM-CTN-1000</b><br>123063 |                         |
| 1250                                                                                                   | IZM20...<br>IZM32... | <b>IZM-CTN-1250</b><br>123064 |                         |
| 1600                                                                                                   | IZM20...<br>IZM32... | <b>IZM-CTN-1600</b><br>123065 |                         |
| 2000                                                                                                   | IZM20...<br>IZM32... | <b>IZM-CTN-2000</b><br>123066 |                         |
| 2500                                                                                                   | IZM32...             | <b>IZM-CTN-2500</b><br>123067 |                         |
| 3200                                                                                                   | IZM32...             | <b>IZM-CTN-3200</b><br>123068 |                         |
| 4000                                                                                                   | IZM40...<br>IZM63... | <b>IZM-CTN-4000</b><br>123069 |                         |
| 5000                                                                                                   | IZM63...             | <b>IZM-CTN-5000</b><br>123070 |                         |
| 6300                                                                                                   | IZM63...             | <b>IZM-CTN-6300</b><br>123071 |                         |

|                                                                                         | Rated current<br>$I_n$<br>A | Rated ultimate short-circuit breaking capacity<br>$I_{cu}$<br>kA | No. of poles | For use with                                                                  | Part no.<br>Article no.   | Price<br>see price list |
|-----------------------------------------------------------------------------------------|-----------------------------|------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------|---------------------------|-------------------------|
| <b>Main terminal sets</b>                                                               |                             |                                                                  |              |                                                                               |                           |                         |
| Standard equipment for the basic circuit-breaker devices includes horizontal terminals. |                             |                                                                  |              |                                                                               |                           |                         |
| Vertical connections for fixed type or cassette                                         |                             |                                                                  |              |                                                                               |                           |                         |
|        | ≤ 2000                      | ≤ 65                                                             | 3            | IZM20...<br>IN20...                                                           | IZM-TV203N-2000<br>123072 |                         |
|                                                                                         | 4000                        | 100                                                              | 3            | IZM40...<br>IN40...                                                           | IZM-TV403H-4000<br>123081 |                         |
|                                                                                         | ≤ 2000                      | ≤ 65                                                             | 4            | IZM20...<br>IN20...                                                           | IZM-TV204N-2000<br>123086 |                         |
|                                                                                         | 4000                        | 100                                                              | 4            | IZM40...<br>IN40...                                                           | IZM-TV404H-4000<br>123095 |                         |
|        | ≤ 1600                      | ≤ 65                                                             | 3            | IZM32...<br>IN32...                                                           | IZM-TV323B-1600<br>123074 |                         |
|                                                                                         | ≤ 2000                      | ≤ 100                                                            | 3            | IZM32B...20<br>IN32B...20<br>IZM32H..., IN32H...                              | IZM-TV323H-2000<br>123075 |                         |
|                                                                                         | 2500 - 3200                 | 100                                                              | 3            | IZM32...<br>IN32...                                                           | IZM-TV323H-3200<br>123077 |                         |
|                                                                                         | ≤ 1600                      | ≤ 65                                                             | 4            | IZM32...<br>IN32...                                                           | IZM-TV324B-1600<br>123088 |                         |
|                                                                                         | ≤ 2000                      | ≤ 100                                                            | 4            | IZM32B...20<br>IN32B...20<br>IZM32H..., IN32H...                              | IZM-TV324H-2000<br>123089 |                         |
|                                                                                         | 2500 - 3200                 | 100                                                              | 4            | IZM32...<br>IN32...                                                           | IZM-TV324H-3200<br>123091 |                         |
|      | 4000                        | 100                                                              | 3            | IZM63...<br>IN63...                                                           | IZM-TV633H-4000<br>123082 |                         |
|                                                                                         | 5000 - 6300                 | 100                                                              | 3            | IZM63...<br>IN63...                                                           | IZM-TV633H-6300<br>123084 |                         |
|                                                                                         | 4000                        | 100                                                              | 4            | IZM63...<br>IN63...                                                           | IZM-TV634H-4000<br>123096 |                         |
|                                                                                         | 5000 - 6300                 | 100                                                              | 4            | IZM63...<br>IN63...                                                           | IZM-TV634H-6300<br>123098 |                         |
| Front connections for fixed type or cassette                                            |                             |                                                                  |              |                                                                               |                           |                         |
|      | ≤ 1250                      | ≤ 65                                                             | 3            | IZM20...<br>IN20...                                                           | IZM-TF203N-1250<br>123100 |                         |
|                                                                                         | ≤ 1250                      | ≤ 65                                                             | 4            | IZM20...<br>IN20...                                                           | IZM-TF204N-1250<br>123108 |                         |
|      | 1600 - 2000                 | ≤ 65                                                             | 3            | IZM20...<br>IN20...                                                           | IZM-TF203N-2000<br>123102 |                         |
|                                                                                         | 4000                        | 100                                                              | 3            | IZM40...<br>IN40...                                                           | IZM-TF403H-4000<br>123107 |                         |
|                                                                                         | ≤ 2000                      | ≤ 65                                                             | 4            | IZM20...<br>IN20...                                                           | IZM-TF204N-2000<br>123110 |                         |
|                                                                                         | 4000                        | 100                                                              | 4            | IZM40...<br>IN40...                                                           | IZM-TF404H-4000<br>123115 |                         |
|      | ≤ 1250                      | ≤ 65                                                             | 3            | IZM32B...<br>IN32B...                                                         | IZM-TF323B-1250<br>124225 |                         |
|                                                                                         | 1600 - 2500                 | ≤ 65                                                             | 3            | IZM32B...<br>IN32B...                                                         | IZM-TF323B-2500<br>123104 |                         |
|                                                                                         | ≤ 3200                      | ≤ 100                                                            | 3            | IZM32B...32...<br>IN32B...32...<br>IZM32N..., IN32N...<br>IZM32H..., IN32H... | IZM-TF323H-3200<br>123105 |                         |
|                                                                                         | ≤ 1250                      | ≤ 65                                                             | 4            | IZM32B...<br>IN32B...                                                         | IZM-TF324B-1250<br>124280 |                         |
|                                                                                         | ≤ 2500                      | ≤ 65                                                             | 4            | IZM32B...<br>IN32B...                                                         | IZM-TF324B-2500<br>123112 |                         |
|                                                                                         | ≤ 3200                      | ≤ 100                                                            | 4            | IZM32B...32...<br>IN32B...32...<br>IZM32N..., IN32N...<br>IZM32H..., IN32H... | IZM-TF324H-3200<br>123113 |                         |

|                                                                                                                                                      | Rated control voltage<br>$U_s$<br>V | For use with                                | Part no.<br>Article no.       | Price<br>see price list |
|------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|---------------------------------------------|-------------------------------|-------------------------|
| <b>Miscellaneous Accessories</b>                                                                                                                     |                                     |                                             |                               |                         |
| Secondary terminal kit with two blocks<br>6-point terminal blocks with labels, 2 pieces, with AMP-tool and internal wiring.                          | —                                   | IZM20, 32, 40, 63...<br>IN20, 32, 40, 63... | <b>IZM-SEC-TB2</b><br>123116  |                         |
|                                                                     | —                                   | IZM20, 32, 40, 63...<br>IN20, 32, 40, 63... | <b>IZM-SEC-TB15</b><br>123117 |                         |
| Secondary terminal kit with 15 blocks<br>6-point terminal blocks with labels, 15 pieces. Internal wiring to be ordered separately.                   | —                                   | IZM20, 32, 40, 63...<br>IN20, 32, 40, 63... | <b>IZM-SEC-TB15</b><br>123117 |                         |
|                                                                     | —                                   | IZM20, 32, 40, 63...<br>IN20, 32, 40, 63... | <b>IZM-SEC-TB15</b><br>123117 |                         |
| Secondary terminal wire kit<br>Secondary terminal wire kit with 90 wires, sufficient for the internal connection of 15 secondary blocks.             | —                                   | IZM20, 32, 40, 63...<br>IN20, 32, 40, 63... | <b>IZM-SEC-WR90</b><br>122789 |                         |
| Door escutcheon and gasket kit, IP31<br>Spare part, the door frame belongs to the standard delivery of the basic device/ cassette.                   | —                                   | IZM20, 32, 40, 63...<br>IN20, 32, 40, 63... | <b>IZM-DEG</b><br>122925      |                         |
|                                                                    | —                                   | IZM20, 32, 40, 63...<br>IN20, 32, 40, 63... | <b>IZM-DEG</b><br>122925      |                         |
| Protection cover, IP54                                                                                                                               | —                                   | IZM20, 32, 40, 63...<br>IN20, 32, 40, 63... | <b>IZM-DC</b><br>122926       |                         |
| Lifting yoke<br>Consists of two steel hooks specially shaped to hook under the integral molded lifting handles on both sides of the circuit breaker. |                                     |                                             |                               |                         |
|                                                                                                                                                      | 3                                   | IZM20...<br>IN20...                         | <b>IZM-LY203</b><br>123118    |                         |
|                                                                                                                                                      | 3                                   | IZM32...<br>IN32...                         | <b>IZM-LY323</b><br>123119    |                         |
|                                                                                                                                                      | 3                                   | IZM40...<br>IN40...                         | <b>IZM-LY403</b><br>123120    |                         |
|                                                                                                                                                      | 3                                   | IZM63...<br>IN63...                         | <b>IZM-LY633</b><br>123121    |                         |
|                                                                                                                                                      | 4                                   | IZM20...<br>IN20...                         | <b>IZM-LY204</b><br>123122    |                         |
|                                                                                                                                                      | 4                                   | IZM32...<br>IN32...                         | <b>IZM-LY324</b><br>123123    |                         |
|                                                                                                                                                      | 4                                   | IZM40...<br>IN40...                         | <b>IZM-LY404</b><br>123124    |                         |
|                                                                                                                                                      | 4                                   | IZM63...<br>IN63...                         | <b>IZM-LY634</b><br>123125    |                         |
| Roll-on floor lifting device<br>Lifts breaker fitted with lifting yoke.                                                                              | —                                   | IZM20, 32, 40, 63...<br>IN20, 32, 40, 63... | <b>IZM-CRANE</b><br>123126    |                         |

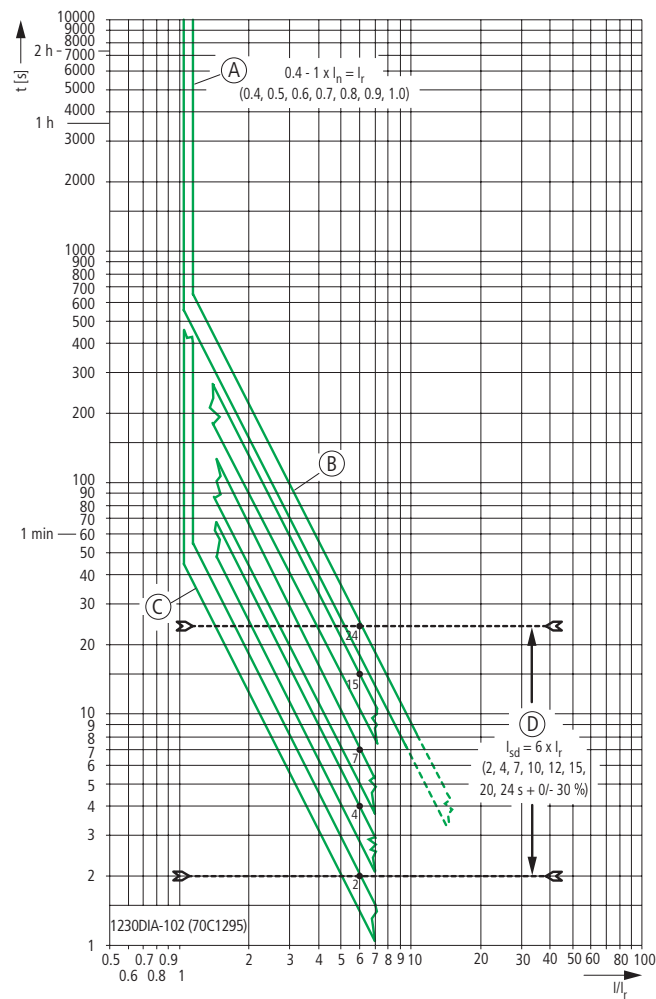


### IZM26...A... Characteristic curves for system protection

Overload protection (L) and Instantaneous short-circuit protection (I)

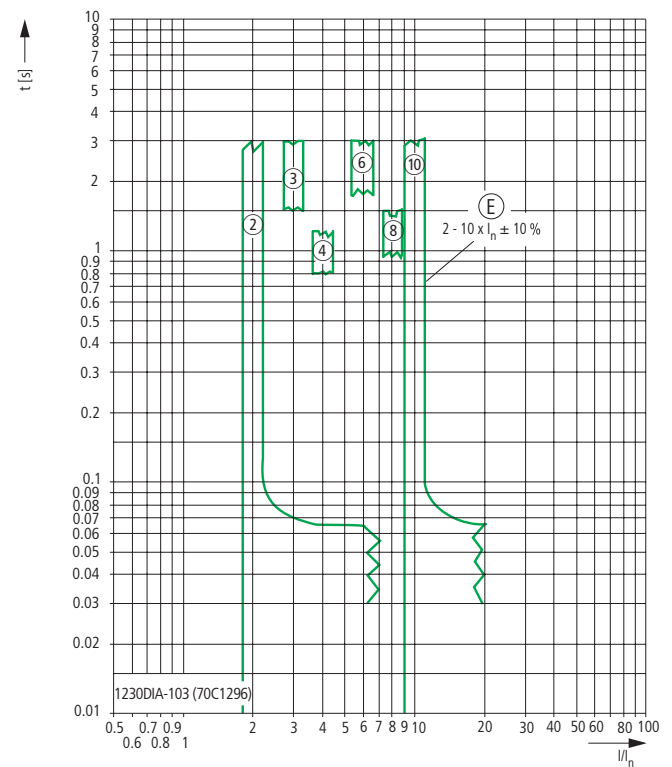
L-Protection: Adjustable

See notes 1 to 3.



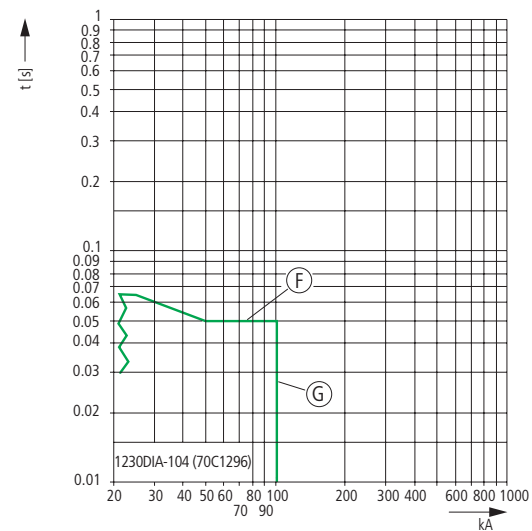
I-Protection: Adjustable

See notes 3 to 7.



I-Protection: Instantaneous trip at high fault currents

See notes 3 to 7.



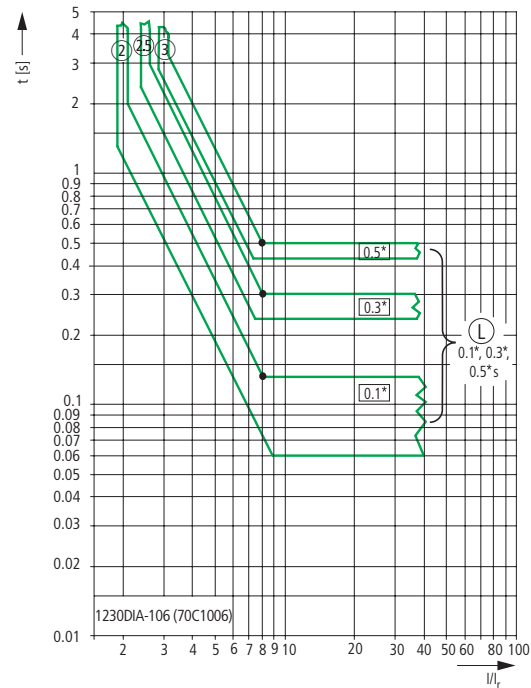
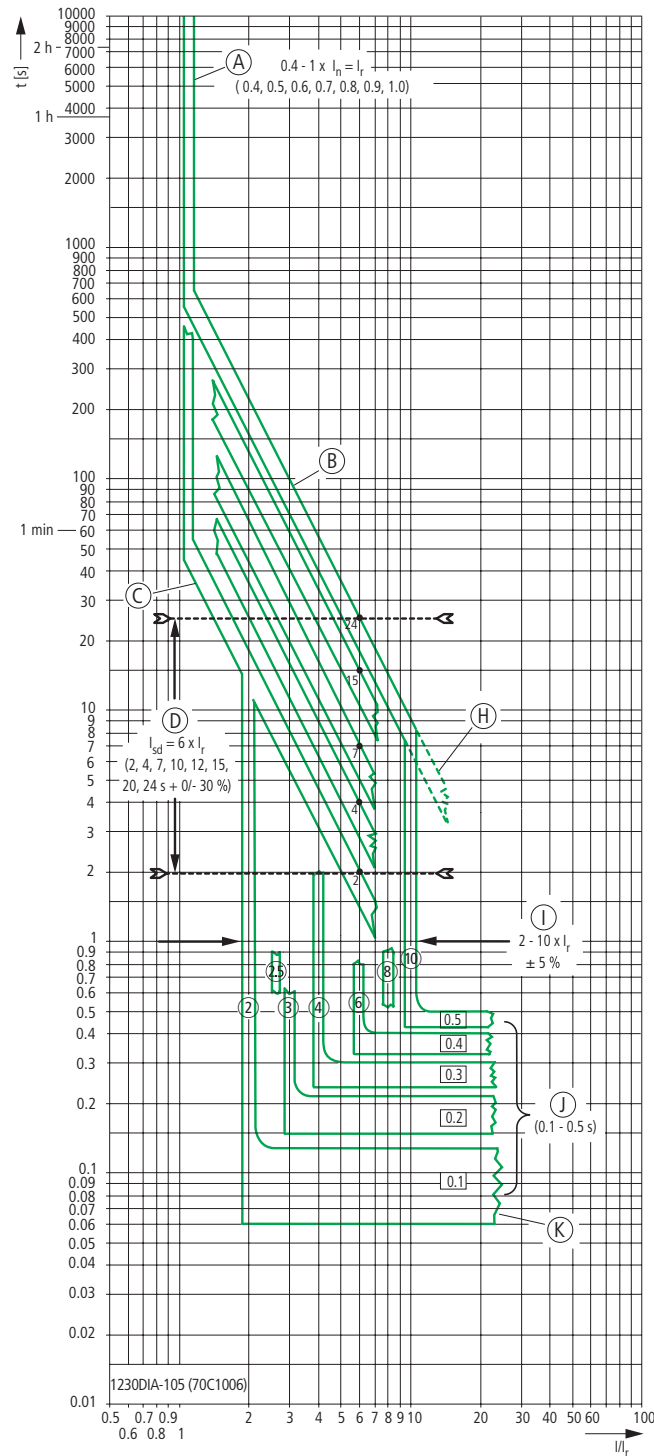
### IZM26...V(U)... Characteristic curves for selective and universal protection

Overload protection (L) and short-time delayed short-circuit protection (S)

See notes 1, 3, 4, 6, 7, 8, 9, 10.

L-Protection:  $I^2t$  curve and S-Protection: flat curve

S-Protection:  $I^2t$  curve



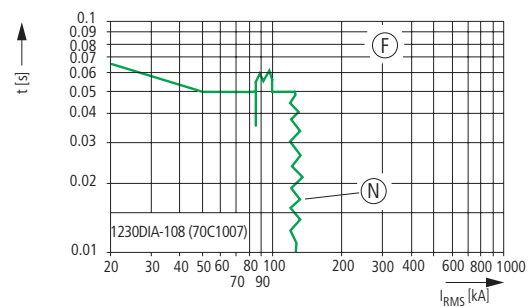
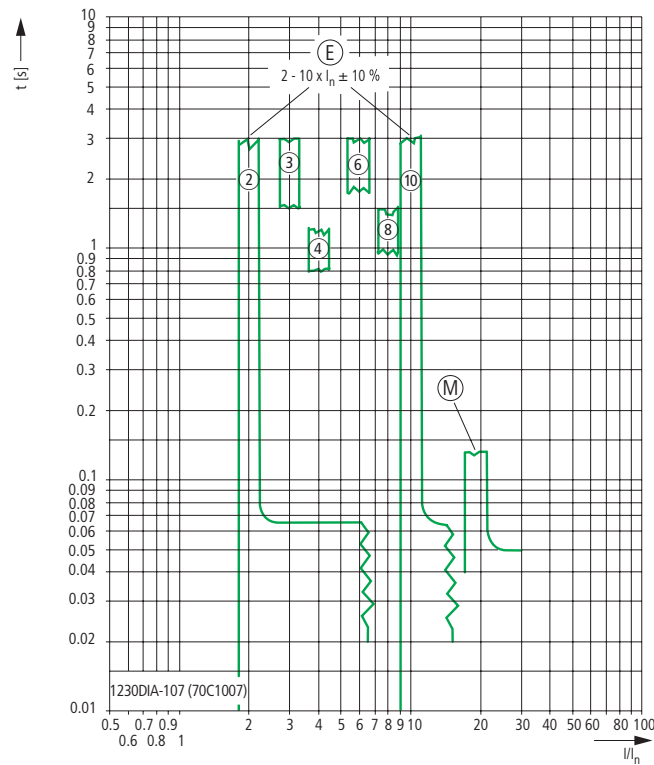
### IZM26...V(U)... Characteristic curves for selective and universal protection

Instantaneous short-circuit protection (I)

See notes 4, 5, 6, 7, 11, 12.

I-Protection: Adjustable

I-Protection: Instantaneous trip at high fault currents

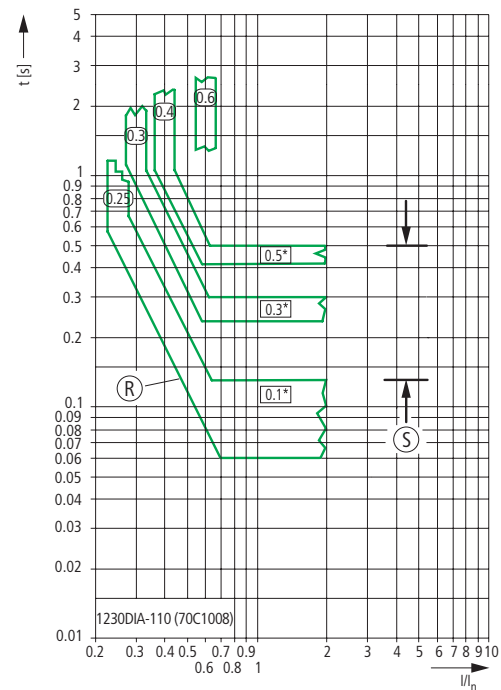
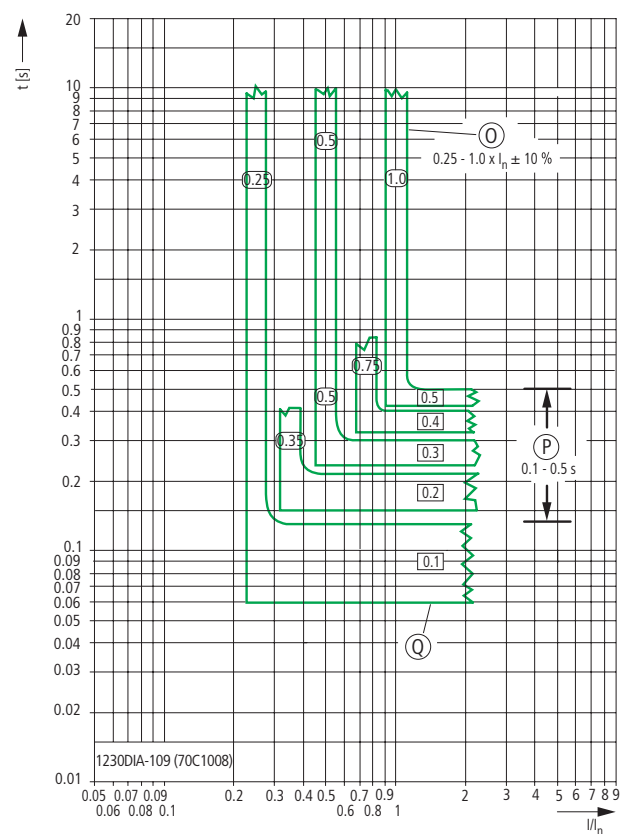


### IZM26...V(U)... Option ground fault protection +IZM-DTV(U)-E...

See notes 4, 6, 13, 14, 15, 16, 17.

G: Ground fault protection, flat curve

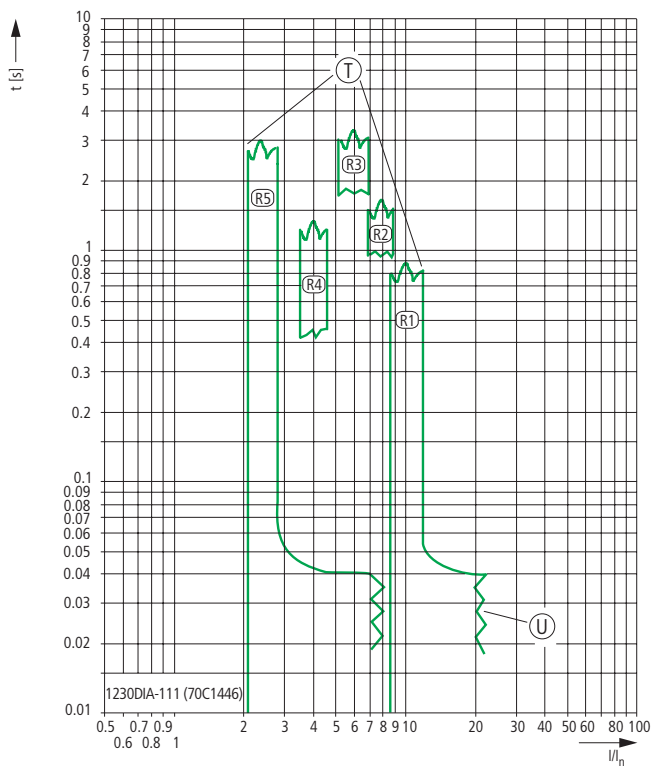
G: Ground fault protection, I²t curve



### IZM26...U... Option maintenance mode +IZM-DTU-ARMS

See notes 4, 6, 12, 18, 19, 20, 21.

Arcflash Reduction Maintenance System (ARMS™)



### IZM26...P... Characteristic curves for universal protection with power measurement

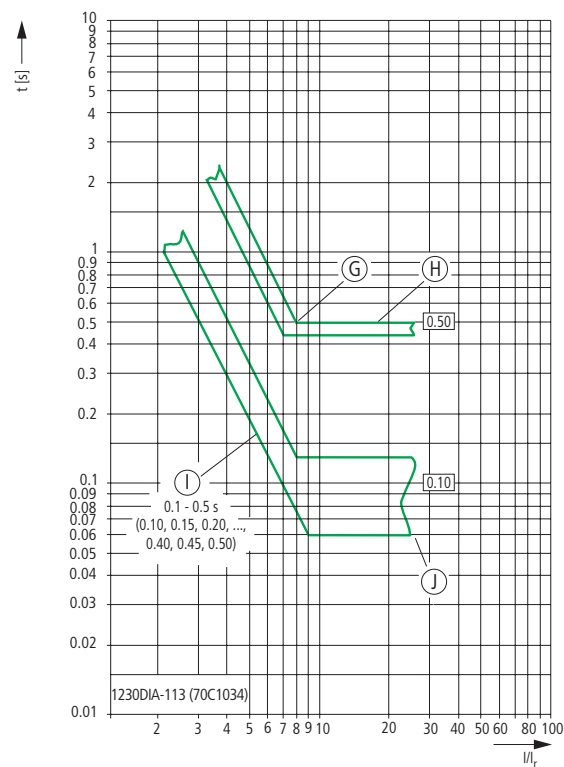
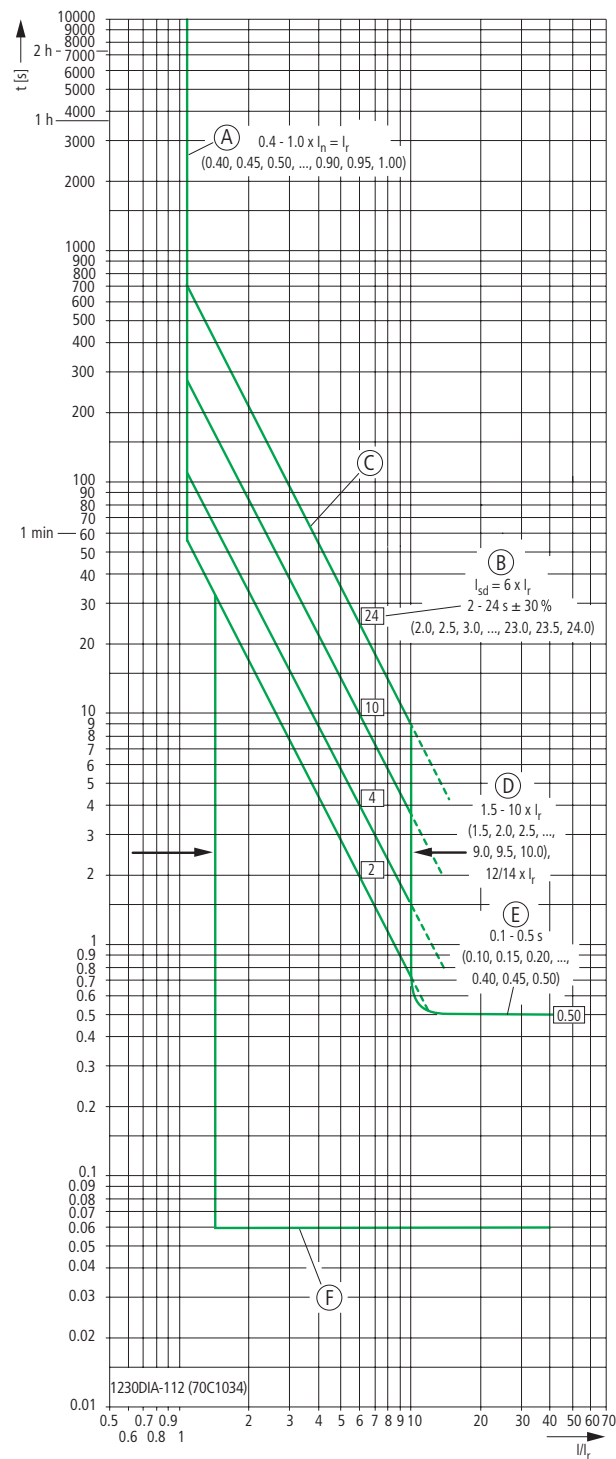
Overload protection (L) and short-time delayed short-circuit protection (S)

L-Protection:  $I^2t$  curve and S-Protection: flat curve

See notes 1, 3, 7, 9, 22, 23, 24, 25, 26.

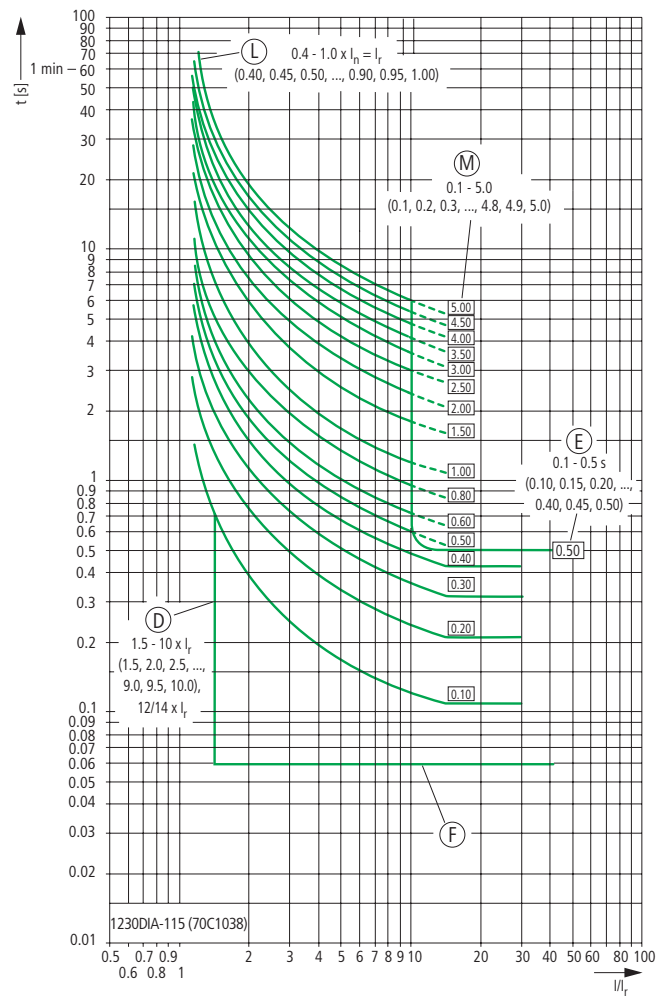
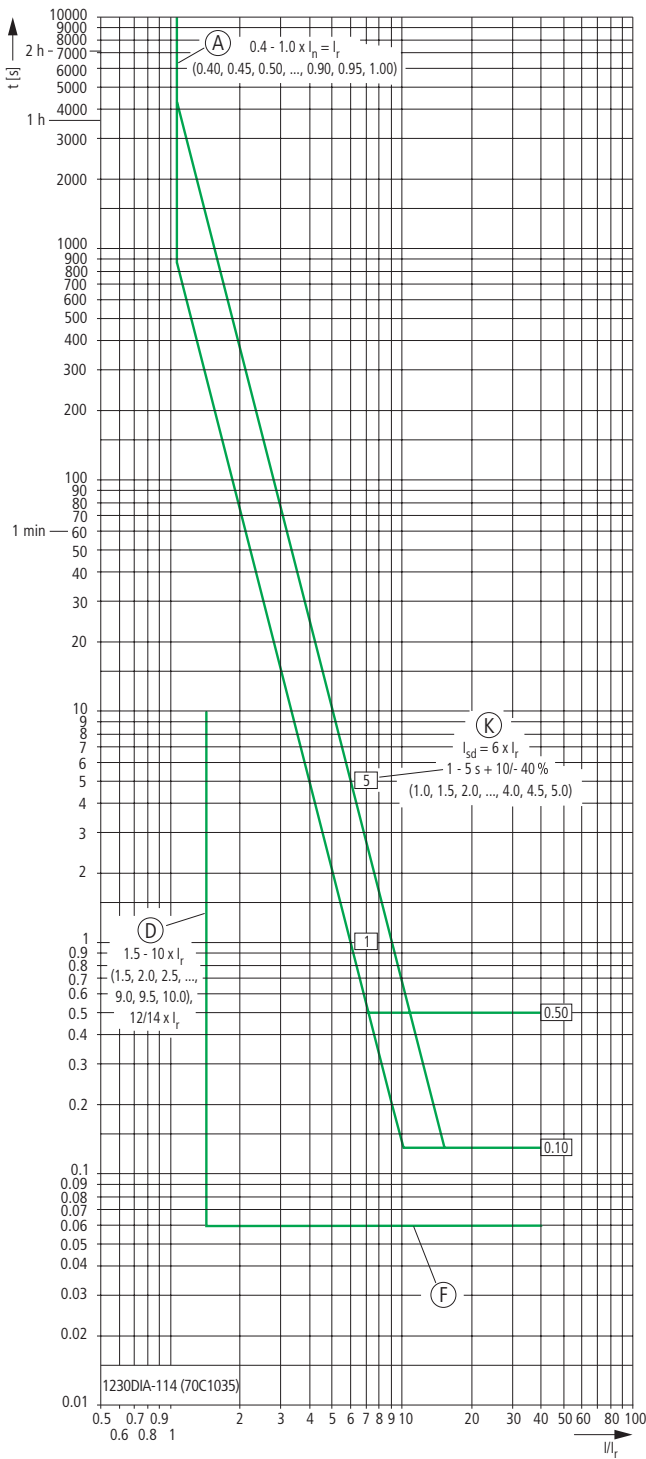
S-Protection:  $I^2t$  curve

See notes 1, 3, 7, 9, 22, 23, 24, 25, 26.



L-Protection: I<sup>2</sup>t curve and S-Protection: flat curve  
See notes 1, 3, 7, 9, 22, 23, 24, 25, 27.

L-Protection: IEEE Moderately Inverse and S-Protection: flat curve  
See notes 3, 7, 8, 9, 23, 25, 28, 29, 30.

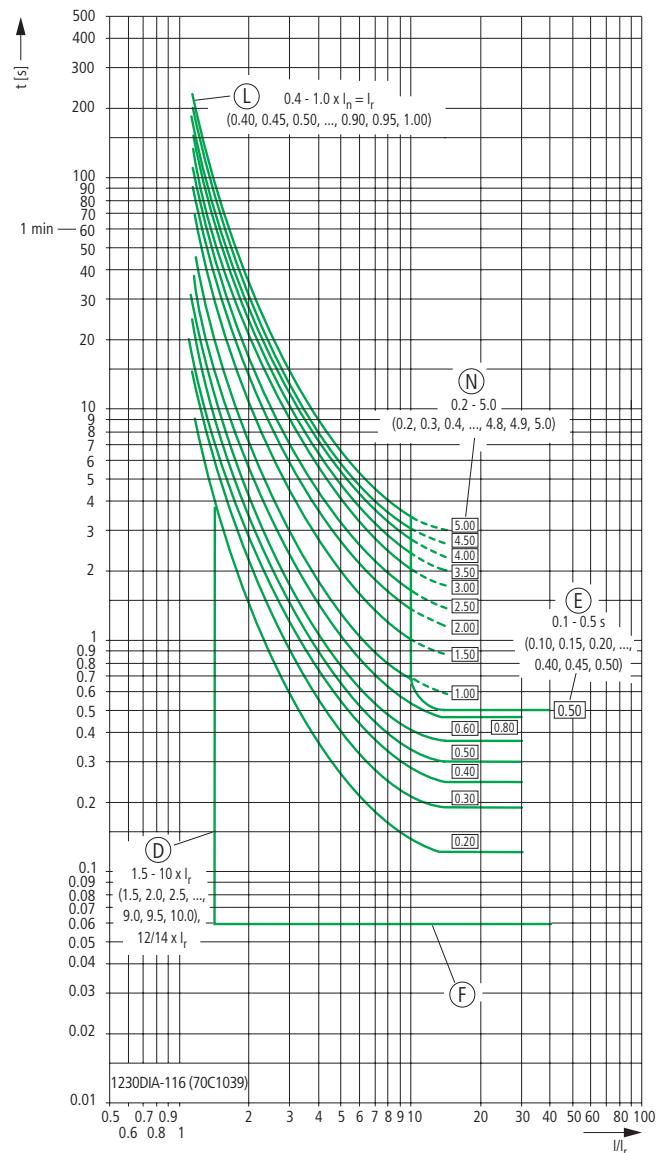


IZM26...P...

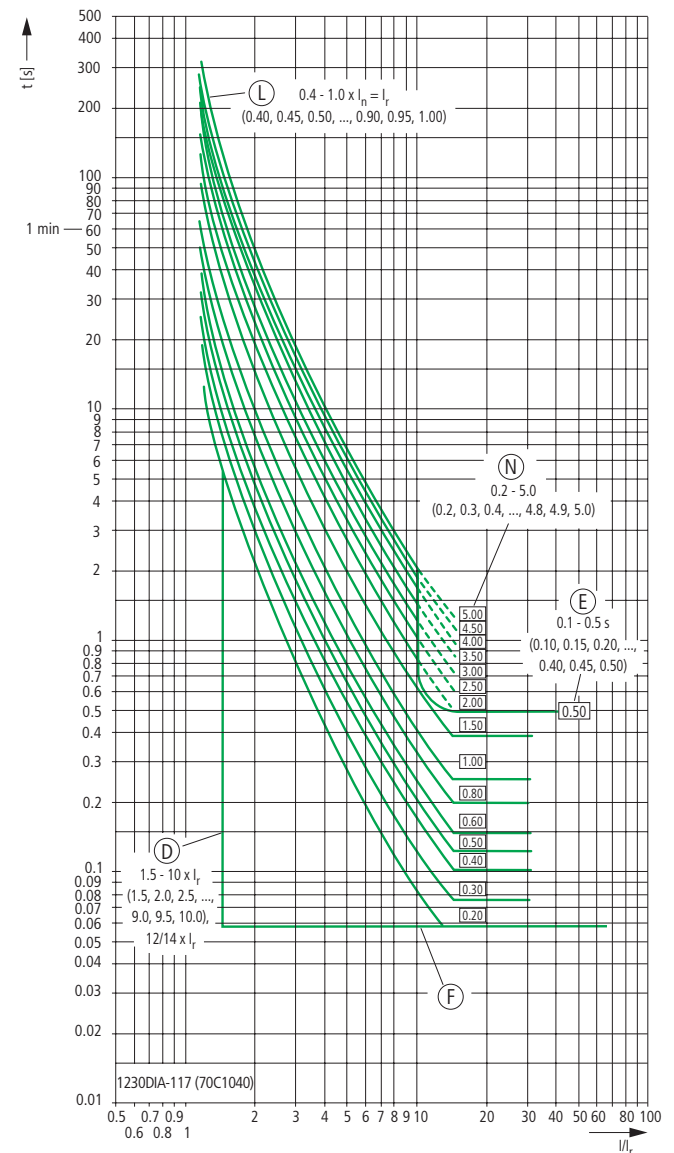
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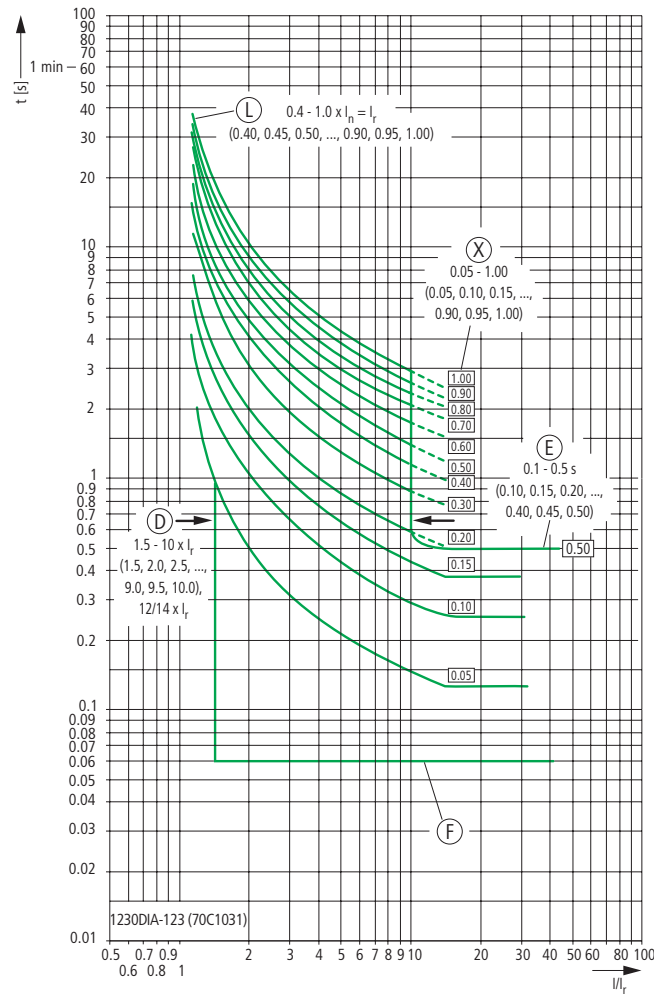
L-Protection: IEEE Very Inverse and S-Protection: flat curve  
See notes 3, 7, 8, 9, 23, 25, 28, 30, 31.



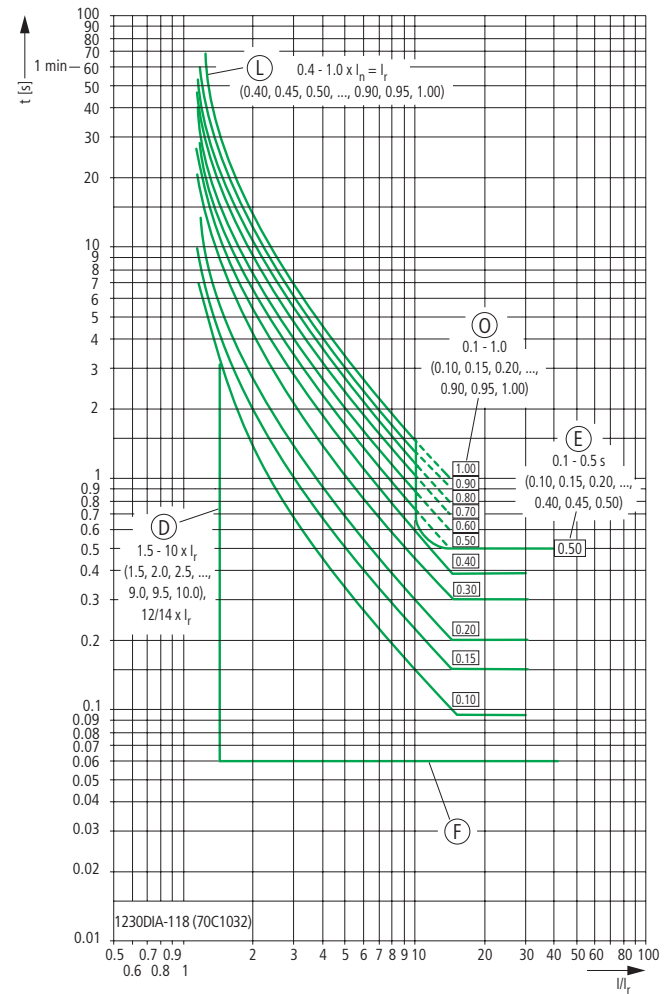
L-Protection: IEEE Extremely Inverse and S-Protection: flat curve  
See notes 3, 7, 8, 9, 23, 25, 28, 30, 32.



L-Protection: IEC-A Normal Inverse and S-Protection: flat curve  
See notes 3, 7, 8, 9, 23, 25, 28, 30, 33.



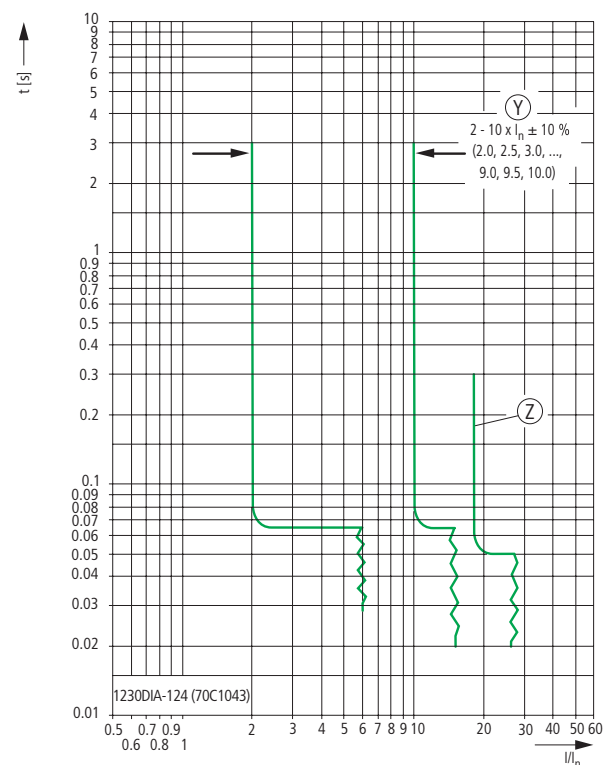
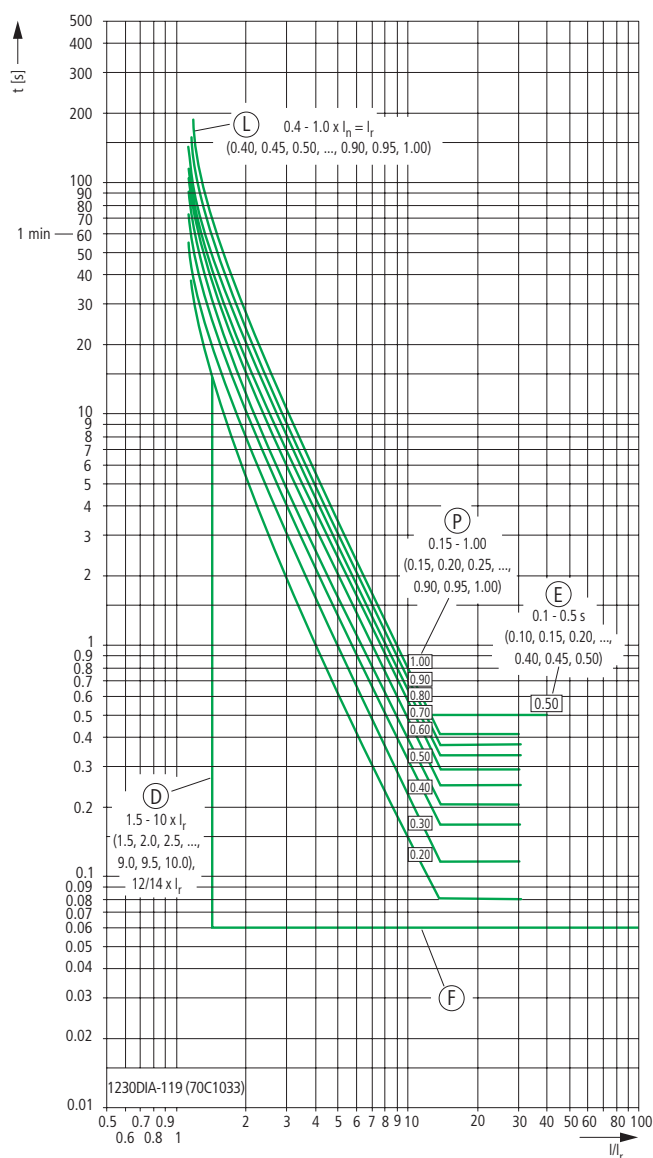
L-Protection: IEC-B Very Inverse and S-Protection: flat curve  
See notes 3, 7, 8, 9, 23, 25, 28, 30, 34.



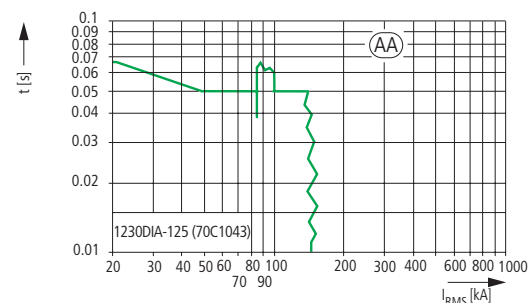
L-Protection: IEC-C Extremely Inverse and S-Protection: flat curve  
See notes 3, 7, 8, 9, 23, 25, 28, 30, 35.

**IZM26...P... Characteristic curves for universal protection with power measurement**  
Instantaneous short-circuit protection (I)  
See notes 1, 4, 5, 6, 7, 11, 12.

I-Protection: Adjustable



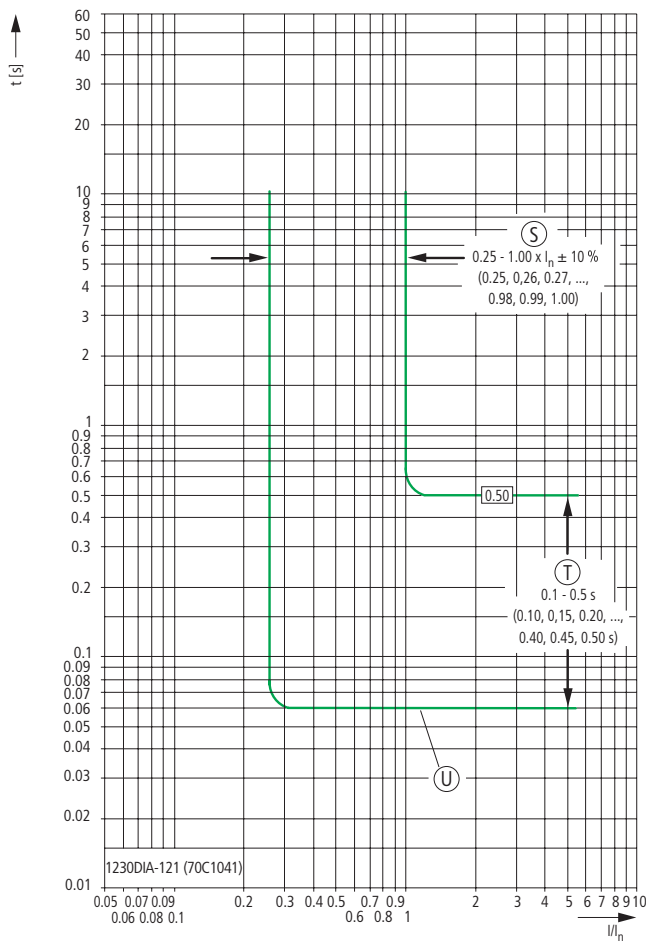
I-Protection: Instantaneous trip at high fault currents



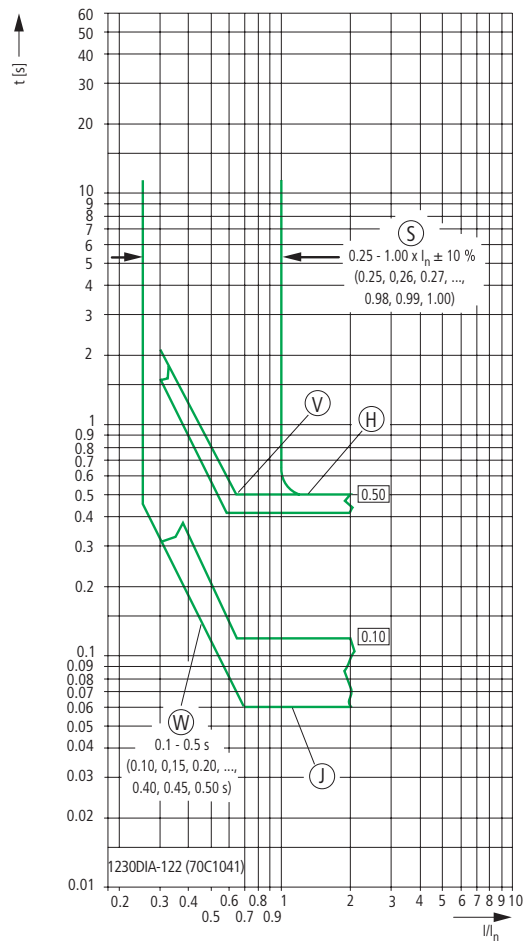
### IZM26...P... Option ground fault protection +IZM-DTP-E...

See notes 4, 6, 13, 14, 15, 16, 25, 26, 36.

G: Ground fault protection, flat curve



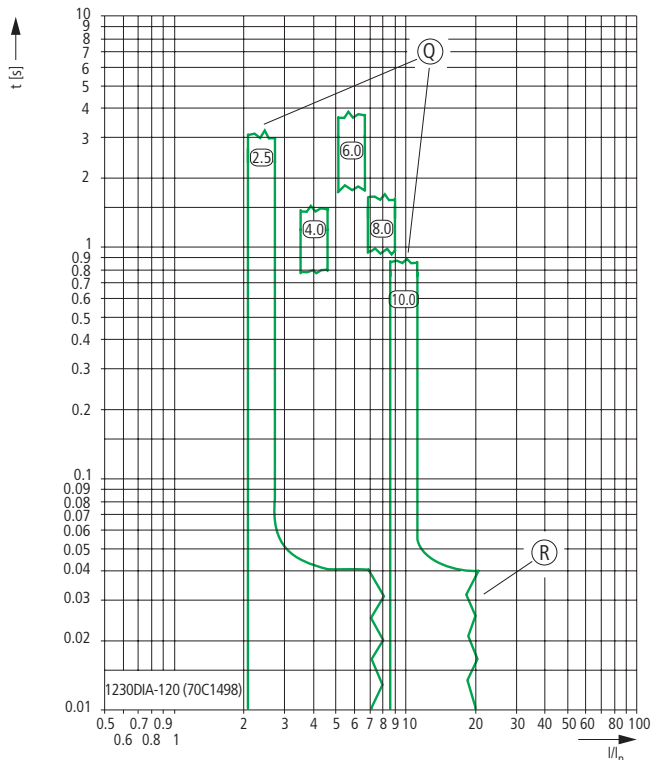
G: Ground fault protection,  $I^2t$  curve



### IZM26...P... Option maintenance mode +IZM-DTP-ARMS

See notes 4, 6, 12, 18, 19, 20, 21.

Arcflash Reduction Maintenance System (ARMS™)



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| <p>1 There is a memory effect that can act to shorten the Long Delay. The memory effect comes into play if a current above the Long Delay pickup value exists for a time and then is cleared by the tripping of a downstream device or the circuit-breaker itself. A subsequent overload will cause the circuit-breaker to trip in shorter time than normal. The amount of time delay reduction is inverse to the amount of time that has elapsed since the previous overload. Approximately five minutes is required between overloads to completely reset memory.</p> <p>2 The Long Delay pickup point (indicated by rapid flashing of "Unit Status" LED on the trip unit) occurs at 110 % <math>I_r</math> current, with a <math>\pm 5</math> % tolerance.</p> <p>3 Curve applies from -20° C to +55° C ambient. Temperatures above +85° C cause automatic trip. Breaker must be applied according to derating values in the technical data table.</p> <p>4 The end of the curve is determined by the application and the interruption rating of the circuit-breaker.</p> <p>5 The Instantaneous settings have conventional 100 % <math>\pm 10</math> % as the pickup points.</p> <p>6 Total clearing times shown include the response times of the trip unit, the breaker opening and the interruption of the current.</p> <p>7 Additional available max M1 settings:</p> <p><b>IZM20</b><br/> M1 = 14 x <math>I_n</math> for Plug Amps 200 A through 1250 A<br/> M1 = 12 x <math>I_n</math> for Plug Amps 1600 A<br/> M1 = 10 x <math>I_n</math> for Plug Amps 2000 A</p> <p><b>IZM32, IZM40</b><br/> M1 = 14 x <math>I_n</math> for Plug Amps 200 A through 1250 A<br/> M1 = 12 x <math>I_n</math> for Plug Amps 1600 A through 2500 A<br/> M1 = 10 x <math>I_n</math> for Plug Amps 3200 A through 4000 A</p> <p><b>IZM63</b><br/> M1 = 14 x <math>I_n</math> for Plug Amps 2000 A through 2500 A<br/> M1 = 12 x <math>I_n</math> for Plug Amps 3200 A through 5000 A<br/> M1 = 10 x <math>I_n</math> for Plug Amps 6300 A</p> <p>8 The actual pickup point (indicated by rapid flashing of "Unit Status" LED on the trip unit) occurs at 110 % of the <math>I_r</math> current, with a <math>\pm 5</math> % tolerance. The Short Delay pickup settings <math>I_{sd}</math> have conventional 100 % <math>\pm 5</math> % as their pickup point.</p> <p>9 With Zone Selective Interlocking (ZSI) on Short Delay utilized and no restraining signal, the minimum Short Time band (0.10 s) applies regardless of the Short Time setting <math>t_{sd}</math>.</p> <p>10 Breakpoint back to Flat curve response indicated by dots occurs at 8 x <math>I_r</math> for upper line of <math>I^2t</math> curve.</p> <p>11 For Standard frames (IZM32), an additional High Instantaneous Trip Module is provided in the breaker set to pickup at 170 kA instantaneous peak current level. This protection is functional even when the Instantaneous is set to the OFF position.</p> <p>12 These curves are comprehensive for the complete family of IZM26 breakers. The total clearing times shown are conservative and consider the maximum response times of the trip unit, the circuit-breaker opening and the interruption of the current under factors that contribute to worst case conditions, such as: maximum rated voltages, single phase interruption, and minimum power factor. Faster clearing times are possible depending on the specific system conditions and the type of IZM26 circuit-breaker applied.</p> <p>13 The Earth Fault (Ground) settings have conventional 100 % <math>\pm 10</math> % as the pickup points.</p> | <p>14 Except as noted, tolerances on current levels are <math>\pm 10</math> % of values shown in chart.</p> <p>15 The Earth Fault (Ground) pickup in combination with the ARMS function is limited to 1200 A setting.</p> <p>16 With Zone Selective Interlocking (ZSI) on Earth Fault (Ground) utilized and no restraining signal, the minimum time band (Flat curve) applies regardless of setting.</p> <p>17 Transition point from <math>I^2t</math> back to Flat curve response indicated by dot occurs at 0.625 x <math>I_n</math> for upper boundary of <math>I^2t</math> curve.</p> <p>18 The Arcflash Maintenance Mode feature (ARMS™) must be turned ON via switch or communications for these curves to apply. A blue LED verifies Maintenance Mode setting is active.</p> <p>19 Clearing times are shown with auxiliary power present.</p> <p>20 A Maintenance Mode (ARMS™) Trip is signalled via the "Instantaneous" LED.</p> <p>21 Nominal reduction values (pickup) with a tolerance of <math>\pm 15</math> % are:<br/> 2.5 x <math>I_n</math> (= R5), 4 x <math>I_n</math> (= R4), 6 x <math>I_n</math> (= R3), 8 x <math>I_n</math> (= R2), 10 x <math>I_n</math> (= R1).</p> <p>22 This curve is shown as a multiple of the Long Delay setting <math>I_r</math>.</p> <p>The actual pickup point (indicated by rapid flashing of "Unit Status" LED on the trip unit) occurs at 110 % of the <math>I_r</math> current, with a <math>\pm 5</math> % tolerance.</p> <p><math>I^2t</math> Long Time curve equation: Tripping time = Time setting <math>t_r</math> x 36 / (<math>I^2</math>) and</p> <p><math>I^4t</math> Long Time curve equation: Tripping time = Time setting <math>t_r</math> x 1296 / (<math>I^4</math>), where the selected overload current <math>I</math> is a multiple of <math>I_r</math>. The Short Time function and the Long Time function act independently and the entire set of Long Time curves continue to be active even after the curves intersect.</p> <p>23 Short Delay pickup <math>I_{sd}</math> also has a M1 setting, which may extend out where the Short Delay pickup becomes active.</p> <p>24 The Short Delay pickup points have 100 % <math>\pm 5</math> % tolerance.</p> <p>25 Short Time: Flat curve only.<br/> Tolerance is +0/-80 ms of setting except:<br/> 0.10 s setting is 0.06 to 0.13<br/> 0.15 s setting is 0.10 to 0.17<br/> 0.20 s setting is 0.15 to 0.22</p> <p>26 Short Delay Slope <math>I^2t</math>:<br/> <math>I^2t</math> slope flattens out at 8 x <math>I_r</math> for top of band with Flat curve time minimum value prevailing for bottom of band.</p> <ul style="list-style-type: none"> <li>• Top curve equation:<br/>Tripping time = Short Time setting <math>t_{sd}</math> x 64 / <math>I^2</math>, where <math>I</math> is a multiple of <math>I_r</math>.</li> <li>• Bottom curve equation:<br/>Tripping time = Short Time setting <math>t_{sd}</math> x 64 / <math>I^2</math> x 0.70.</li> </ul> <p>Earth Fault (Ground) Slope <math>I^2t</math>:<br/> <math>I^2t</math> slope flattens out at 0.625 x <math>I_r</math> for top of band with Flat curve time minimum value prevailing for bottom of band.</p> <ul style="list-style-type: none"> <li>• Top curve equation:<br/>Tripping time = Earth Fault Time setting <math>t_g</math> x 0.39 / <math>I_n^2</math>.</li> <li>• Bottom curve equation:<br/>Tripping time = Earth Fault Time setting <math>t_g</math> x 0.39 / <math>I_n^2</math> x 0.70.</li> </ul> <p>The above equations indicate tolerance is +0/-30 % for all settings except:<br/> 0.10 s is +30 %/-25 %<br/> 0.15 s is +20 %/-25 %<br/> 0.20 s is +10 %/-25 %</p> <p>For all curves the lower Flat curve response time value projected to <math>I^2t</math> line will determine the other break point and shape of the curve.</p> |
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IZM26...A(V)(U)(P)...

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| <p>27 In this time region <math>\leq 0.5</math> seconds the I<sup>4</sup>t Long Time function will flatten out and be no faster than the Short Time setting <math>t_{sd}</math>. This is to avoid a notch in graph.</p> <p>28 This curve is shown as a multiple of the Long Delay pickup setting <math>I_r</math>.</p> <p>The Time setting <math>t_r</math> combined with Short Delay pickup <math>I_{sd}</math> and Short Time setting <math>t_{sd}</math> (shown in heavy lines) depict the so-called "IEEE Inverse" respectively "IEC Inverse" response. The Instantaneous <math>I_{ir}</math> shown as a separate response, can be deactivated (set to OFF).</p> <p>29 Curve equation:<br/> Tripping time = Time setting <math>t_r \times [0.0515 / (I^{0.02} - 1) + 0.114]</math>,<br/> where the selected overload current <math>I</math> is a multiple of <math>I_r</math>.</p> <p>30 For current <math>&gt; 1.2 \times I_r</math> tolerance is <math>[\pm 15 \text{ \%}]</math> or <math>[-15 \text{ \%}, +90 \text{ ms}]</math>, whichever is larger.</p> <p>This curve goes to Flat response at <math>14 \times I_r</math> with a shorter time of Long Time setting <math>t_r</math> or Short Time function prevailing if curves overlap. The Short Time function and the Time setting function <math>t_r</math> act independently and the entire Long Time curves continue to be active even after the curves intersect.</p> <p>31 Curve equation:<br/> Tripping time = Time setting <math>t_r \times [19.61 / (I^2 - 1) + 0.491]</math>,<br/> where the selected overload current <math>I</math> is a multiple of <math>I_r</math>.</p> <p>32 Curve equation:<br/> Tripping time = Time setting <math>t_r \times [28.2 / (I^2 - 1) + 0.1217]</math>,<br/> where the selected overload current <math>I</math> is a multiple of <math>I_r</math>.</p> <p>33 Curve equation:<br/> Tripping time = Time setting <math>t_r \times [0.14 / (I^{0.02} - 1)]</math>,<br/> where the selected overload current <math>I</math> is a multiple of <math>I_r</math>.</p> <p>34 Curve equation:<br/> Tripping time = Time setting <math>t_r \times [13.5 / (I - 1)]</math>,<br/> where the selected overload current <math>I</math> is a multiple of <math>I_r</math>.</p> <p>35 Curve equation:<br/> Tripping time = Time setting <math>t_r \times [80 / (I^2 - 1)]</math>,<br/> where the selected overload current <math>I</math> is a multiple of <math>I_r</math>.</p> <p>36 For the Digitrip 1150 unit without Arcflash Maintenance Mode feature (ARMS™) the minimum Earth Fault (Ground) pickup setting starts at <math>0.1 \times I_n</math>.</p> | <p>A Available Long Delay setting</p> <p>B Maximum total clearing time</p> <p>C Minimum total clearing time</p> <p>D Available Long Delay setting</p> <p>E Available Instantaneous setting</p> <p>F Instantaneous trip at high fault currents</p> <p>G Application and circuit-breaker ratings determine end of curve.</p> <p>H Long Delay Time curves can extend down to M1.</p> <p>I Available Short Delay settings</p> <p>J Available Flat response Short Delay</p> <p>K Application determines end of curve.</p> <p>L Available I<sup>2</sup>t Short Delay Time response</p> <p>M Fixed Instantaneous</p> <p>N End of curve</p> <p>O Available Earth Fault (Ground) setting</p> <p>P Available Flat response Earth Fault (Ground) Time</p> <p>Q Flat shape for Earth Fault (Ground) Time</p> <p>R I<sup>2</sup>t slope for Earth Fault (Ground) Time</p> <p>S Available I<sup>2</sup>t response Earth Fault (Ground) Time</p> <p>T Available Arcflash Reduction Maintenance (ARMS™) settings:<br/> R5 = max. reduction, R1 = min. reduction.</p> <p>U Application and circuit-breaker ratings determine end of curve.</p> <p>V Breakpoint</p> <p>W Available I<sup>2</sup>t response Earth Fault (Ground) Time</p> <p>X Adjustable Time Delay setting</p> <p>Y Available adjustable Instantaneous pickup setting</p> <p>Z Fixed Instantaneous</p> <p>AA Instantaneous trip at high fault currents</p> |
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| IZM...                                                                |                                                                        |                       |          | Moeller NK1230-1187en                                                              |                | http://catalog.moeller.net |       |
|-----------------------------------------------------------------------|------------------------------------------------------------------------|-----------------------|----------|------------------------------------------------------------------------------------|----------------|----------------------------|-------|
|                                                                       |                                                                        |                       |          | IZM20B...08...                                                                     | IZM20B...10... | IZM20B...12...             |       |
| General                                                               |                                                                        |                       |          |                                                                                    |                |                            |       |
| Standards                                                             |                                                                        |                       |          | IEC/EN 60947                                                                       |                |                            |       |
| Ambient temperature                                                   |                                                                        | Storage               | °C       | -40 - +70 (device with LCD-display -20 - +70)                                      |                |                            |       |
|                                                                       |                                                                        | Operating (open)      | °C       | -25 - +70 (device with LCD-display -20 - +70)                                      |                |                            |       |
| Mounting position                                                     |                                                                        |                       |          |  |                |                            |       |
| Utilization category                                                  |                                                                        |                       |          | B                                                                                  |                |                            |       |
| Protection type                                                       |                                                                        |                       |          | IP20, IP54 with protective cover                                                   |                |                            |       |
| Direction of incoming supply                                          |                                                                        |                       |          | as required                                                                        |                |                            |       |
| Main conducting paths                                                 |                                                                        |                       |          |                                                                                    |                |                            |       |
| Rated current = rated uninterrupted current                           |                                                                        | $I_n = I_u$           | A        | 800                                                                                | 1000           | 1250                       |       |
| Rated uninterrupted current at 50 °C <sup>1)</sup>                    |                                                                        | $I_u$                 | A        | 800                                                                                | 1000           | 1250                       |       |
| Rated uninterrupted current at 60 °C <sup>1)</sup>                    |                                                                        | $I_u$                 | A        | 800                                                                                | 1000           | 1100                       |       |
| Rated uninterrupted current at 70 °C <sup>1)</sup>                    |                                                                        | $I_u$                 | A        | 800                                                                                | 1000           | 1000                       |       |
| Rated impulse withstand voltage                                       |                                                                        | $U_{imp}$             | V AC     | 12000                                                                              | 12000          | 12000                      |       |
| Rated operational voltage                                             |                                                                        | $U_e$                 | V AC     | 690                                                                                | 690            | 690                        |       |
| Use in IT electrical power networks up to $U = 440$ V                 |                                                                        | $I_{IT}$              | kA       | 21.5                                                                               | 21.5           | 21.5                       |       |
| Use in IT electrical power networks up to $U = 690$ V                 |                                                                        | $I_{IT}$              | kA       | –                                                                                  | –              | –                          |       |
| Overvoltage category/pollution degree                                 |                                                                        |                       |          | III/3                                                                              | III/3          | III/3                      |       |
| Rated insulation voltage                                              |                                                                        | $U_i$                 | V        | 1000                                                                               | 1000           | 1000                       |       |
| Switching capacity                                                    |                                                                        |                       |          |                                                                                    |                |                            |       |
| Rated short-circuit making capacity                                   |                                                                        | up to 440 V 50/60 Hz  | $I_{cm}$ | kA                                                                                 | 105.0          | 105.0                      | 105.0 |
|                                                                       |                                                                        | up to 690 V 50/60 Hz  | $I_{cm}$ | kA                                                                                 | 105.0          | 105.0                      | 105.0 |
| Rated short-time withstand current 50/60 Hz                           |                                                                        | t = 1 s               | $I_{cw}$ | kA                                                                                 | 50             | 50                         | 50    |
|                                                                       |                                                                        | t = 3 s               | $I_{cw}$ | kA                                                                                 | –              | –                          | –     |
| Rated short-circuit breaking capacity $I_{cn}$                        |                                                                        |                       |          |                                                                                    |                |                            |       |
| IEC/EN 60947 operating sequence $I_{cu}$ O-t-CO                       |                                                                        | up to 240 V 50/60 Hz  | $I_{cu}$ | kA                                                                                 | 50             | 50                         | 50    |
|                                                                       |                                                                        | up to 440 V 50/60 Hz  | $I_{cu}$ | kA                                                                                 | 50             | 50                         | 50    |
|                                                                       |                                                                        | up to 690 V 50/60 Hz  | $I_{cu}$ | kA                                                                                 | 50             | 50                         | 50    |
|                                                                       |                                                                        | up to 1100 V 50/60 Hz | $I_{cu}$ | kA                                                                                 | –              | –                          | –     |
| IEC/EN 60947 operating sequence $I_{cs}$ O-t-CO-t-CO                  |                                                                        | up to 240 V 50/60 Hz  | $I_{cs}$ | kA                                                                                 | 50             | 50                         | 50    |
|                                                                       |                                                                        | up to 440 V 50/60 Hz  | $I_{cs}$ | kA                                                                                 | 50             | 50                         | 50    |
|                                                                       |                                                                        | up to 690 V 50/60 Hz  | $I_{cs}$ | kA                                                                                 | 50             | 50                         | 50    |
|                                                                       |                                                                        | up to 1100 V 50/60 Hz | $I_{cs}$ | kA                                                                                 | –              | –                          | –     |
| Operating delays                                                      | Total opening delay                                                    |                       | ms       | 30                                                                                 | 30             | 30                         |       |
|                                                                       | Closing delay electrical (via closing release)                         |                       | ms       | 35                                                                                 | 35             | 35                         |       |
|                                                                       | Closing delay                                                          |                       | ms       | 40                                                                                 | 40             | 40                         |       |
|                                                                       | Opening delay electrical (via shunt release / undervoltage release)    |                       | ms       | 35/70                                                                              | 35/70          | 35/70                      |       |
|                                                                       | Opening delay via trip electronics (non-delayed short-circuit release) |                       | ms       | 35                                                                                 | 35             | 35                         |       |
| Lifespan                                                              | mechanical, without maintenance                                        | Operations            |          | 12500                                                                              | 12500          | 12500                      |       |
|                                                                       | mechanical, with maintenance                                           | Operations            |          | 20000                                                                              | 20000          | 20000                      |       |
|                                                                       | electrical, without maintenance                                        | Operations            |          | 10000                                                                              | 10000          | 10000                      |       |
|                                                                       | electrical, with maintenance                                           | Operations            |          | 10000                                                                              | 10000          | 10000                      |       |
| Maximum operating frequency                                           |                                                                        | Operations/h          |          | 60                                                                                 | 60             | 60                         |       |
| Heat dissipation at rated current $I_n$ with 3-phase symmetrical load |                                                                        | Fixed mounting        | W        | 60                                                                                 | 95             | 150                        |       |
|                                                                       |                                                                        | Withdrawable units    | W        | 110                                                                                | 170            | 260                        |       |
| Weight                                                                |                                                                        |                       |          |                                                                                    |                |                            |       |
| Fixed mounting                                                        |                                                                        | 3-pole                | kg       | 43.00                                                                              | 43.00          | 43.00                      |       |
|                                                                       |                                                                        | 4-pole                | kg       | 54.00                                                                              | 54.00          | 54.00                      |       |
| Withdrawable units                                                    |                                                                        | 3-pole                | kg       | 48.00                                                                              | 48.00          | 48.00                      |       |
|                                                                       |                                                                        | 4-pole                | kg       | 62.00                                                                              | 62.00          | 62.00                      |       |

Notes

<sup>1)</sup> Permissible continuous current for circuit-breakers operating in switchboards at various internal ambient temperatures. The switchboard's internal ambient temperature should be estimated using the calculation methods of IEC regulation.

| http://catalog.moeller.net                                                          |                | Moeller NK1230-1187en |                | IZM...         |                |                |
|-------------------------------------------------------------------------------------|----------------|-----------------------|----------------|----------------|----------------|----------------|
| IZM20B...16...                                                                      | IZM20B...20... | IZM20N...08...        | IZM20N...10... | IZM20N...12... | IZM20N...16... | IZM20N...20... |
| IEC/EN 60947                                                                        |                |                       |                |                |                |                |
| -40 - +70 (device with LCD-display -20 - +70)                                       |                |                       |                |                |                |                |
| -25 - +70 (device with LCD-display -20 - +70)                                       |                |                       |                |                |                |                |
|  |                |                       |                |                |                |                |
| B                                                                                   |                |                       |                |                |                |                |
| IP20, IP54 with protective cover                                                    |                |                       |                |                |                |                |
| as required                                                                         |                |                       |                |                |                |                |
| 1600                                                                                | 2000           | 800                   | 1000           | 1250           | 1600           | 2000           |
| 1600                                                                                | 2000           | 800                   | 1000           | 1250           | 1600           | 2000           |
| 1500                                                                                | 1800           | 800                   | 1000           | 1100           | 1500           | 1800           |
| 1350                                                                                | 1650           | 800                   | 1000           | 1000           | 1350           | 1650           |
| 12000                                                                               | 12000          | 12000                 | 12000          | 12000          | 12000          | 12000          |
| 690                                                                                 | 690            | 690                   | 690            | 690            | 690            | 690            |
| 23.0                                                                                | 32.1           | 21.5                  | 21.5           | 21.5           | 23.0           | 32.1           |
| –                                                                                   | –              | –                     | –              | –              | –              | –              |
| III/3                                                                               | III/3          | III/3                 | III/3          | III/3          | III/3          | III/3          |
| 1000                                                                                | 1000           | 1000                  | 1000           | 1000           | 1000           | 1000           |
| 105.0                                                                               | 105.0          | 136.5                 | 136.5          | 136.5          | 136.5          | 136.5          |
| 105.0                                                                               | 105.0          | 136.5                 | 136.5          | 136.5          | 136.5          | 136.5          |
| 50                                                                                  | 50             | 65                    | 65             | 65             | 65             | 65             |
| –                                                                                   | 30             | 40                    | 40             | 40             | 40             | 40             |
| 50                                                                                  | 50             | 65                    | 65             | 65             | 65             | 65             |
| 50                                                                                  | 50             | 65                    | 65             | 65             | 65             | 65             |
| 50                                                                                  | 50             | 65                    | 65             | 65             | 65             | 65             |
| 50                                                                                  | 50             | 65                    | 65             | 65             | 65             | 65             |
| 50                                                                                  | 50             | 65                    | 65             | 65             | 65             | 65             |
| 50                                                                                  | 50             | 65                    | 65             | 65             | 65             | 65             |
| –                                                                                   | –              | –                     | –              | –              | –              | –              |
| 30                                                                                  | 30             | 30                    | 30             | 30             | 30             | 30             |
| 35                                                                                  | 35             | 35                    | 35             | 35             | 35             | 35             |
| 40                                                                                  | 40             | 40                    | 40             | 40             | 40             | 40             |
| 35/70                                                                               | 35/70          | 35/70                 | 35/70          | 35/70          | 35/70          | 35/70          |
| 35                                                                                  | 35             | 35                    | 35             | 35             | 35             | 35             |
| 12500                                                                               | 10000          | 12500                 | 12500          | 12500          | 12500          | 10000          |
| 20000                                                                               | 16000          | 20000                 | 20000          | 20000          | 20000          | 16000          |
| 10000                                                                               | 8000           | 10000                 | 10000          | 10000          | 10000          | 8000           |
| 10000                                                                               | 8000           | 10000                 | 10000          | 10000          | 10000          | 8000           |
| 60                                                                                  | 60             | 60                    | 60             | 60             | 60             | 60             |
| 240                                                                                 | 280            | 45                    | 70             | 110            | 180            | 280            |
| 420                                                                                 | 560            | 90                    | 140            | 220            | 360            | 560            |
| 43.00                                                                               | 43.00          | 43.00                 | 43.00          | 43.00          | 43.00          | 43.00          |
| 54.00                                                                               | 54.00          | 54.00                 | 54.00          | 54.00          | 54.00          | 54.00          |
| 48.00                                                                               | 48.00          | 48.00                 | 48.00          | 48.00          | 48.00          | 48.00          |
| 62.00                                                                               | 62.00          | 62.00                 | 62.00          | 62.00          | 62.00          | 62.00          |



| IZM...                                                                |                                                                        |              |    | Moeller NK1230-1187en                                                              |                | http://catalog.moeller.net |  |
|-----------------------------------------------------------------------|------------------------------------------------------------------------|--------------|----|------------------------------------------------------------------------------------|----------------|----------------------------|--|
|                                                                       |                                                                        |              |    | IZM32N...16...                                                                     | IZM32N...20... | IZM32N...25...             |  |
| General                                                               |                                                                        |              |    |                                                                                    |                |                            |  |
| Standards                                                             |                                                                        |              |    | IEC/EN 60947                                                                       |                |                            |  |
| Ambient temperature                                                   | Storage                                                                |              | °C | -40 - +70 (device with LCD-display -20 - +70)                                      |                |                            |  |
|                                                                       | Operating (open)                                                       |              | °C | -25 - +70 (device with LCD-display -20 - +70)                                      |                |                            |  |
| Mounting position                                                     |                                                                        |              |    |  |                |                            |  |
| Utilization category                                                  |                                                                        |              |    | B                                                                                  |                |                            |  |
| Protection type                                                       |                                                                        |              |    | IP20, IP54 with protective cover                                                   |                |                            |  |
| Direction of incoming supply                                          |                                                                        |              |    | as required                                                                        |                |                            |  |
| Main conducting paths                                                 |                                                                        |              |    |                                                                                    |                |                            |  |
| Rated current = rated uninterrupted current                           | $I_n = I_u$                                                            | A            |    | 1600                                                                               | 2000           | 2500                       |  |
| Rated uninterrupted current at 50 °C <sup>1)</sup>                    | $I_u$                                                                  | A            |    | 1600                                                                               | 2000           | 2500                       |  |
| Rated uninterrupted current at 60 °C <sup>1)</sup>                    | $I_u$                                                                  | A            |    | 1600                                                                               | 2000           | 2500                       |  |
| Rated uninterrupted current at 70 °C <sup>1)</sup>                    | $I_u$                                                                  | A            |    | 1600                                                                               | 2000           | 2500                       |  |
| Rated impulse withstand voltage                                       | $U_{imp}$                                                              | V AC         |    | 12000                                                                              | 12000          | 12000                      |  |
| Rated operational voltage                                             | $U_e$                                                                  | V AC         |    | 690                                                                                | 690            | 690                        |  |
| Use in IT electrical power networks up to $U = 440$ V                 | $I_{IT}$                                                               | kA           |    | 23.5                                                                               | 28.9           | 39.6                       |  |
| Use in IT electrical power networks up to $U = 690$ V                 | $I_{IT}$                                                               | kA           |    | 23.5                                                                               | 28.9           | 39.6                       |  |
| Overvoltage category/pollution degree                                 |                                                                        |              |    | III/3                                                                              | III/3          | III/3                      |  |
| Rated insulation voltage                                              | $U_i$                                                                  | V            |    | 1000                                                                               | 1000           | 1000                       |  |
| Switching capacity                                                    |                                                                        |              |    |                                                                                    |                |                            |  |
| Rated short-circuit making capacity                                   | up to 440 V 50/60 Hz                                                   | $I_{cm}$     | kA | 178.5                                                                              | 178.5          | 178.5                      |  |
|                                                                       | up to 690 V 50/60 Hz                                                   | $I_{cm}$     | kA | 178.5                                                                              | 178.5          | 178.5                      |  |
| Rated short-time withstand current 50/60 Hz                           | t = 1 s                                                                | $I_{cw}$     | kA | 85                                                                                 | 85             | 85                         |  |
|                                                                       | t = 3 s                                                                | $I_{cw}$     | kA | 65                                                                                 | 65             | 65                         |  |
| Rated short-circuit breaking capacity $I_{cn}$                        |                                                                        |              |    |                                                                                    |                |                            |  |
| IEC/EN 60947 operating sequence $I_{cu}$ O-t-CO                       | up to 240 V 50/60 Hz                                                   | $I_{cu}$     | kA | 85                                                                                 | 85             | 85                         |  |
|                                                                       | up to 440 V 50/60 Hz                                                   | $I_{cu}$     | kA | 85                                                                                 | 85             | 85                         |  |
|                                                                       | up to 690 V 50/60 Hz                                                   | $I_{cu}$     | kA | 85                                                                                 | 85             | 85                         |  |
|                                                                       | up to 1100 V 50/60 Hz                                                  | $I_{cu}$     | kA | —                                                                                  | —              | —                          |  |
| IEC/EN 60947 operating sequence $I_{cs}$ O-t-CO-t-CO                  | up to 240 V 50/60 Hz                                                   | $I_{cs}$     | kA | 85                                                                                 | 85             | 85                         |  |
|                                                                       | up to 440 V 50/60 Hz                                                   | $I_{cs}$     | kA | 85                                                                                 | 85             | 85                         |  |
|                                                                       | up to 690 V 50/60 Hz                                                   | $I_{cs}$     | kA | 85                                                                                 | 85             | 85                         |  |
|                                                                       | up to 1100 V 50/60 Hz                                                  | $I_{cs}$     | kA | —                                                                                  | —              | —                          |  |
| Operating delays                                                      | Total opening delay                                                    |              | ms | 30                                                                                 | 30             | 30                         |  |
|                                                                       | Closing delay electrical (via closing release)                         |              | ms | 35                                                                                 | 35             | 35                         |  |
|                                                                       | Closing delay                                                          |              | ms | 40                                                                                 | 40             | 40                         |  |
|                                                                       | Opening delay electrical (via shunt release / undervoltage release)    |              | ms | 35/70                                                                              | 35/70          | 35/70                      |  |
|                                                                       | Opening delay via trip electronics (non-delayed short-circuit release) |              | ms | 35                                                                                 | 35             | 35                         |  |
| Lifespan                                                              | mechanical, without maintenance                                        | Operations   |    | 10000                                                                              | 10000          | 8000                       |  |
|                                                                       | mechanical, with maintenance                                           | Operations   |    | 16000                                                                              | 16000          | 12800                      |  |
|                                                                       | electrical, without maintenance                                        | Operations   |    | 10000                                                                              | 10000          | 8000                       |  |
|                                                                       | electrical, with maintenance                                           | Operations   |    | 10000                                                                              | 10000          | 8000                       |  |
| Maximum operating frequency                                           |                                                                        | Operations/h |    | 60                                                                                 | 60             | 60                         |  |
| Heat dissipation at rated current $I_n$ with 3-phase symmetrical load | Fixed mounting                                                         | W            |    | 120                                                                                | 190            | 200                        |  |
|                                                                       | Withdrawable units                                                     | W            |    | 240                                                                                | 380            | 500                        |  |
| Weight                                                                |                                                                        |              |    |                                                                                    |                |                            |  |
| Fixed mounting                                                        | 3-pole                                                                 |              | kg | 68.00                                                                              | 68.00          | 70.00                      |  |
|                                                                       | 4-pole                                                                 |              | kg | 86.00                                                                              | 86.00          | 89.00                      |  |
| Withdrawable units                                                    | 3-pole                                                                 |              | kg | 80.00                                                                              | 80.00          | 88.00                      |  |
|                                                                       | 4-pole                                                                 |              | kg | 102.00                                                                             | 102.00         | 115.00                     |  |

Notes

<sup>1)</sup> Permissible continuous current for circuit-breakers operating in switchboards at various internal ambient temperatures. The switchboard's internal ambient temperature should be estimated using the calculation methods of IEC regulation.

| http://catalog.moeller.net                                                          |                | Moeller NK1230-1187en |                | IZM...         |                |                |
|-------------------------------------------------------------------------------------|----------------|-----------------------|----------------|----------------|----------------|----------------|
| IZM32N...32...                                                                      | IZM32H...08... | IZM32H...10...        | IZM32H...12... | IZM32H...16... | IZM32H...20... | IZM32H...25... |
| IEC/EN 60947                                                                        |                |                       |                |                |                |                |
| -40 - +70 (device with LCD-display -20 - +70)                                       |                |                       |                |                |                |                |
| -25 - +70 (device with LCD-display -20 - +70)                                       |                |                       |                |                |                |                |
|  |                |                       |                |                |                |                |
| B                                                                                   |                |                       |                |                |                |                |
| IP20, IP54 with protective cover                                                    |                |                       |                |                |                |                |
| as required                                                                         |                |                       |                |                |                |                |
| 3200                                                                                | 800            | 1000                  | 1250           | 1600           | 2000           | 2500           |
| 3100                                                                                | 800            | 1000                  | 1250           | 1600           | 2000           | 2500           |
| 2800                                                                                | 800            | 1000                  | 1250           | 1600           | 2000           | 2500           |
| 2550                                                                                | 800            | 1000                  | 1250           | 1600           | 2000           | 2500           |
| 12000                                                                               | 12000          | 12000                 | 12000          | 12000          | 12000          | 12000          |
| 690                                                                                 | 690            | 690                   | 690            | 690            | 690            | 690            |
| 39.6                                                                                | 13.6           | 13.6                  | 13.6           | 23.5           | 28.9           | 39.6           |
| 39.6                                                                                | 13.6           | 13.6                  | 13.6           | 23.5           | 28.9           | 39.6           |
| III/3                                                                               | III/3          | III/3                 | III/3          | III/3          | III/3          | III/3          |
| 1000                                                                                | 1000           | 1000                  | 1000           | 1000           | 1000           | 1000           |
| 178.5                                                                               | 210.0          | 210.0                 | 210.0          | 210.0          | 210.0          | 210.0          |
| 178.5                                                                               | 178.5          | 178.5                 | 178.5          | 178.5          | 178.5          | 178.5          |
| 85                                                                                  | 85             | 85                    | 85             | 85             | 85             | 85             |
| 65                                                                                  | 65             | 65                    | 65             | 65             | 65             | 65             |
| 85                                                                                  | 100            | 100                   | 100            | 100            | 100            | 100            |
| 85                                                                                  | 100            | 100                   | 100            | 100            | 100            | 100            |
| 85                                                                                  | 85             | 85                    | 85             | 85             | 85             | 85             |
| —                                                                                   | —              | —                     | —              | —              | —              | —              |
| 85                                                                                  | 100            | 100                   | 100            | 100            | 100            | 100            |
| 85                                                                                  | 100            | 100                   | 100            | 100            | 100            | 100            |
| 85                                                                                  | 85             | 85                    | 85             | 85             | 85             | 85             |
| —                                                                                   | —              | —                     | —              | —              | —              | —              |
| 30                                                                                  | 30             | 30                    | 30             | 30             | 30             | 30             |
| 35                                                                                  | 35             | 35                    | 35             | 35             | 35             | 35             |
| 40                                                                                  | 40             | 40                    | 40             | 40             | 40             | 40             |
| 35/70                                                                               | 35/70          | 35/70                 | 35/70          | 35/70          | 35/70          | 35/70          |
| 35                                                                                  | 35             | 35                    | 35             | 35             | 35             | 35             |
| 8000                                                                                | 10000          | 10000                 | 10000          | 10000          | 10000          | 8000           |
| 12800                                                                               | 16000          | 16000                 | 16000          | 16000          | 16000          | 12800          |
| 8000                                                                                | 10000          | 10000                 | 10000          | 10000          | 10000          | 8000           |
| 8000                                                                                | 10000          | 10000                 | 10000          | 10000          | 10000          | 8000           |
| 60                                                                                  | 60             | 60                    | 60             | 60             | 60             | 60             |
| 320                                                                                 | 30             | 50                    | 70             | 120            | 190            | 200            |
| 800                                                                                 | 60             | 95                    | 140            | 240            | 380            | 500            |
| 70.00                                                                               | 68.00          | 68.00                 | 68.00          | 68.00          | 68.00          | 70.00          |
| 89.00                                                                               | 86.00          | 86.00                 | 86.00          | 86.00          | 86.00          | 89.00          |
| 88.00                                                                               | 80.00          | 80.00                 | 80.00          | 80.00          | 80.00          | 88.00          |
| 115.00                                                                              | 102.00         | 102.00                | 102.00         | 102.00         | 102.00         | 115.00         |

| IZM...                                                                |                                                                        |                       |          | Moeller NK1230-1187en                                                              |           | http://catalog.moeller.net |       |
|-----------------------------------------------------------------------|------------------------------------------------------------------------|-----------------------|----------|------------------------------------------------------------------------------------|-----------|----------------------------|-------|
|                                                                       |                                                                        |                       |          | IZM32H...32...                                                                     | IZM32S... | IZM40N...40...             |       |
| General                                                               |                                                                        |                       |          |                                                                                    |           |                            |       |
| Standards                                                             |                                                                        |                       |          | IEC/EN 60947                                                                       |           |                            |       |
| Ambient temperature                                                   |                                                                        | Storage               | °C       | -40 - +70 (device with LCD-display -20 - +70)                                      |           |                            |       |
|                                                                       |                                                                        | Operating (open)      | °C       | -25 - +70 (device with LCD-display -20 - +70)                                      |           |                            |       |
| Mounting position                                                     |                                                                        |                       |          |  |           |                            |       |
| Utilization category                                                  |                                                                        |                       |          | B                                                                                  |           |                            |       |
| Protection type                                                       |                                                                        |                       |          | IP20, IP54 with protective cover                                                   |           |                            |       |
| Direction of incoming supply                                          |                                                                        |                       |          | as required                                                                        |           |                            |       |
| Main conducting paths                                                 |                                                                        |                       |          |                                                                                    |           |                            |       |
| Rated current = rated uninterrupted current                           |                                                                        | $I_n = I_u$           | A        | 3200                                                                               | 3200      | 4000                       |       |
| Rated uninterrupted current at 50 °C <sup>1)</sup>                    |                                                                        | $I_u$                 | A        | 3100                                                                               | 3100      | 4000                       |       |
| Rated uninterrupted current at 60 °C <sup>1)</sup>                    |                                                                        | $I_u$                 | A        | 2800                                                                               | 2800      | 4000                       |       |
| Rated uninterrupted current at 70 °C <sup>1)</sup>                    |                                                                        | $I_u$                 | A        | 2550                                                                               | 2550      | 3776                       |       |
| Rated impulse withstand voltage                                       |                                                                        | $U_{imp}$             | V AC     | 12000                                                                              | 12000     | 12000                      |       |
| Rated operational voltage                                             |                                                                        | $U_e$                 | V AC     | 690                                                                                | 1100      | 690                        |       |
| Use in IT electrical power networks up to $U = 440$ V                 |                                                                        | $I_{IT}$              | kA       | 39.6                                                                               | –         | 48.0                       |       |
| Use in IT electrical power networks up to $U = 690$ V                 |                                                                        | $I_{IT}$              | kA       | 39.6                                                                               | 39.6      | –                          |       |
| Overvoltage category/pollution degree                                 |                                                                        |                       |          | III/3                                                                              | III/3     | III/3                      |       |
| Rated insulation voltage                                              |                                                                        | $U_i$                 | V        | 1000                                                                               | 1100      | 1000                       |       |
| Switching capacity                                                    |                                                                        |                       |          |                                                                                    |           |                            |       |
| Rated short-circuit making capacity                                   |                                                                        | up to 440 V 50/60 Hz  | $I_{cm}$ | kA                                                                                 | 210.0     | 210.0                      | 178.5 |
|                                                                       |                                                                        | up to 690 V 50/60 Hz  | $I_{cm}$ | kA                                                                                 | 178.5     | 210.0                      | 136.5 |
| Rated short-time withstand current 50/60 Hz                           |                                                                        | t = 1 s               | $I_{cw}$ | kA                                                                                 | 85        | on request                 | 85    |
|                                                                       |                                                                        | t = 3 s               | $I_{cw}$ | kA                                                                                 | 65        | –                          | 65    |
| Rated short-circuit breaking capacity $I_{cn}$                        |                                                                        |                       |          |                                                                                    |           |                            |       |
|                                                                       | IEC/EN 60947 operating sequence $I_{cu}$ O-t-CO                        | up to 240 V 50/60 Hz  | $I_{cu}$ | kA                                                                                 | 100       | –                          | 85    |
|                                                                       |                                                                        | up to 440 V 50/60 Hz  | $I_{cu}$ | kA                                                                                 | 100       | –                          | 85    |
|                                                                       |                                                                        | up to 690 V 50/60 Hz  | $I_{cu}$ | kA                                                                                 | 85        | –                          | 65    |
|                                                                       |                                                                        | up to 1100 V 50/60 Hz | $I_{cu}$ | kA                                                                                 | –         | 25                         | –     |
|                                                                       | IEC/EN 60947 operating sequence $I_{cs}$ O-t-CO-t-CO                   | up to 240 V 50/60 Hz  | $I_{cs}$ | kA                                                                                 | 100       | –                          | 85    |
|                                                                       |                                                                        | up to 440 V 50/60 Hz  | $I_{cs}$ | kA                                                                                 | 100       | –                          | 85    |
|                                                                       |                                                                        | up to 690 V 50/60 Hz  | $I_{cs}$ | kA                                                                                 | 85        | –                          | 65    |
|                                                                       |                                                                        | up to 1100 V 50/60 Hz | $I_{cs}$ | kA                                                                                 | –         | 25                         | –     |
| Operating delays                                                      | Total opening delay                                                    |                       | ms       | 30                                                                                 | 30        | 30                         |       |
|                                                                       | Closing delay electrical (via closing release)                         |                       | ms       | 35                                                                                 | 35        | 35                         |       |
|                                                                       | Closing delay                                                          |                       | ms       | 40                                                                                 | 40        | 40                         |       |
|                                                                       | Opening delay electrical (via shunt release / undervoltage release)    |                       | ms       | 35/70                                                                              | 35/70     | 35/70                      |       |
|                                                                       | Opening delay via trip electronics (non-delayed short-circuit release) |                       | ms       | 35                                                                                 | 35        | 35                         |       |
| Lifespan                                                              | mechanical, without maintenance                                        | Operations            |          | 8000                                                                               | 8000      | 5000                       |       |
|                                                                       | mechanical, with maintenance                                           | Operations            |          | 12800                                                                              | 12800     | 8000                       |       |
|                                                                       | electrical, without maintenance                                        | Operations            |          | 8000                                                                               | 8000      | 3000                       |       |
|                                                                       | electrical, with maintenance                                           | Operations            |          | 8000                                                                               | 8000      | 3000                       |       |
| Maximum operating frequency                                           |                                                                        | Operations/h          |          | 60                                                                                 | 60        | 60                         |       |
| Heat dissipation at rated current $I_n$ with 3-phase symmetrical load |                                                                        | Fixed mounting        | W        | 320                                                                                | 320       | 560                        |       |
|                                                                       |                                                                        | Withdrawable units    | W        | 800                                                                                | 800       | 1100                       |       |
| Weight                                                                |                                                                        |                       |          |                                                                                    |           |                            |       |
| Fixed mounting                                                        | 3-pole                                                                 |                       | kg       | 70.00                                                                              | 70.00     | 83.00                      |       |
|                                                                       | 4-pole                                                                 |                       | kg       | 89.00                                                                              | 89.00     | 105.00                     |       |
| Withdrawable units                                                    | 3-pole                                                                 |                       | kg       | 88.00                                                                              | 88.00     | 98.00                      |       |
|                                                                       | 4-pole                                                                 |                       | kg       | 115.00                                                                             | 115.00    | 121.00                     |       |

Notes

<sup>1)</sup> Permissible continuous current for circuit-breakers operating in switchboards at various internal ambient temperatures. The switchboard's internal ambient temperature should be estimated using the calculation methods of IEC regulation.

| http://catalog.moeller.net                                                          |                | Moeller NK1230-1187en |                | IZM...         |                |                |
|-------------------------------------------------------------------------------------|----------------|-----------------------|----------------|----------------|----------------|----------------|
| IZM40H...40...                                                                      | IZM63N...40... | IZM63N...50...        | IZM63N...63... | IZM63H...40... | IZM63H...50... | IZM63H...63... |
| IEC/EN 60947                                                                        |                |                       |                |                |                |                |
| -40 - +70 (device with LCD-display -20 - +70)                                       |                |                       |                |                |                |                |
| -25 - +70 (device with LCD-display -20 - +70)                                       |                |                       |                |                |                |                |
|  |                |                       |                |                |                |                |
| B                                                                                   |                |                       |                |                |                |                |
| IP20, IP54 with protective cover                                                    |                |                       |                |                |                |                |
| as required                                                                         |                |                       |                |                |                |                |
| 4000                                                                                | 4000           | 5000                  | 6300           | 4000           | 5000           | 6300           |
| 4000                                                                                | 4000           | 5000                  | 6200           | 4000           | 5000           | 6200           |
| 4000                                                                                | 4000           | 5000                  | 5600           | 4000           | 5000           | 5600           |
| 3776                                                                                | 4000           | 5000                  | 5100           | 4000           | 5000           | 5100           |
| 12000                                                                               | 12000          | 12000                 | 12000          | 12000          | 12000          | 12000          |
| 690                                                                                 | 690            | 690                   | 690            | 690            | 690            | 690            |
| 48.0                                                                                | –              | –                     | –              | –              | –              | –              |
| –                                                                                   | –              | –                     | –              | –              | –              | –              |
| III/3                                                                               | III/3          | III/3                 | III/3          | III/3          | III/3          | III/3          |
| 1000                                                                                | 1000           | 1000                  | 1000           | 1000           | 1000           | 1000           |
| 210.0                                                                               | 178.5          | 178.5                 | 178.5          | 210.0          | 210.0          | 210.0          |
| 136.5                                                                               | 178.5          | 178.5                 | 178.5          | 210.0          | 210.0          | 210.0          |
| 100                                                                                 | 85             | 85                    | 85             | 100            | 100            | 100            |
| 65                                                                                  | 65             | 65                    | 65             | 65             | 65             | 65             |
| 100                                                                                 | 85             | 85                    | 85             | 100            | 100            | 100            |
| 100                                                                                 | 85             | 85                    | 85             | 100            | 100            | 100            |
| 65                                                                                  | 85             | 85                    | 85             | 100            | 100            | 100            |
| –                                                                                   | –              | –                     | –              | –              | –              | –              |
| 100                                                                                 | 85             | 85                    | 85             | 100            | 100            | 100            |
| 100                                                                                 | 85             | 85                    | 85             | 100            | 100            | 100            |
| 65                                                                                  | 85             | 85                    | 85             | 100            | 100            | 100            |
| –                                                                                   | –              | –                     | –              | –              | –              | –              |
| 30                                                                                  | 40             | 40                    | 40             | 40             | 40             | 40             |
| 35                                                                                  | 35             | 35                    | 35             | 35             | 35             | 35             |
| 40                                                                                  | 40             | 40                    | 40             | 40             | 40             | 40             |
| 35/70                                                                               | 35/70          | 35/70                 | 35/70          | 35/70          | 35/70          | 35/70          |
| 35                                                                                  | 35             | 35                    | 35             | 35             | 35             | 35             |
| 5000                                                                                | 5000           | 5000                  | 5000           | 5000           | 5000           | 5000           |
| 8000                                                                                | 8000           | 8000                  | 8000           | 8000           | 8000           | 8000           |
| 3000                                                                                | 3000           | 3000                  | 3000           | 3000           | 3000           | 3000           |
| 3000                                                                                | 3000           | 3000                  | 3000           | 3000           | 3000           | 3000           |
| 60                                                                                  | 60             | 60                    | 60             | 60             | 60             | 60             |
| 560                                                                                 | 380            | 400                   | 620            | 380            | 400            | 620            |
| 1100                                                                                | 750            | 1000                  | 1550           | 750            | 1000           | 1550           |
| 83.00                                                                               | 107.50         | 125.20                | 125.20         | 107.50         | 125.20         | 125.20         |
| 105.00                                                                              | 144.70         | 163.30                | 163.30         | 144.70         | 163.30         | 163.30         |
| 98.00                                                                               | 138.80         | 157.40                | 157.40         | 138.80         | 157.40         | 157.40         |
| 121.00                                                                              | 166.00         | 200.00                | 200.00         | 166.00         | 200.00         | 200.00         |

| IN...                                                                 |                                                                     |                      |            | Moeller NK1230-1187en                                                              |               |               | http://catalog.moeller.net |  |  |
|-----------------------------------------------------------------------|---------------------------------------------------------------------|----------------------|------------|------------------------------------------------------------------------------------|---------------|---------------|----------------------------|--|--|
|                                                                       |                                                                     |                      |            | IN20B...08...                                                                      | IN20B...10... | IN20B...12... |                            |  |  |
| General                                                               |                                                                     |                      |            |                                                                                    |               |               |                            |  |  |
| Standards                                                             |                                                                     |                      |            | IEC/EN 60947                                                                       |               |               |                            |  |  |
| Ambient temperature                                                   |                                                                     | Storage              | °C         | -40 - +70                                                                          |               |               |                            |  |  |
|                                                                       |                                                                     | Operating (open)     | °C         | -25 - +70 (device with LCD-display -20 - +70)                                      |               |               |                            |  |  |
| Mounting position                                                     |                                                                     |                      |            |  |               |               |                            |  |  |
| Utilization category                                                  |                                                                     |                      |            | B                                                                                  |               |               |                            |  |  |
| Protection type                                                       |                                                                     |                      |            | IP20, IP54 with protective cover                                                   |               |               |                            |  |  |
| Direction of incoming supply                                          |                                                                     |                      |            | as required                                                                        |               |               |                            |  |  |
| Main conducting paths                                                 |                                                                     |                      |            |                                                                                    |               |               |                            |  |  |
| Rated current = rated uninterrupted current                           |                                                                     | $I_n = I_u$          | A          | 800                                                                                | 1000          | 1250          |                            |  |  |
| Rated uninterrupted current at 50 °C <sup>1)</sup>                    |                                                                     | $I_u$                | A          | 800                                                                                | 1000          | 1250          |                            |  |  |
| Rated uninterrupted current at 60 °C <sup>1)</sup>                    |                                                                     | $I_u$                | A          | 800                                                                                | 1000          | 1100          |                            |  |  |
| Rated uninterrupted current at 70 °C <sup>1)</sup>                    |                                                                     | $I_u$                | A          | 800                                                                                | 1000          | 1000          |                            |  |  |
| Rated impulse withstand voltage                                       |                                                                     | $U_{imp}$            | V AC       | 12000                                                                              | 12000         | 12000         |                            |  |  |
| Rated operational voltage                                             |                                                                     | $U_e$                | V AC       | 690                                                                                | 690           | 690           |                            |  |  |
| Use in IT electrical power networks up to $U = 440$ V                 |                                                                     | $I_{IT}$             | kA         | 21.5                                                                               | 21.5          | 21.5          |                            |  |  |
| Use in IT electrical power networks up to $U = 690$ V                 |                                                                     | $I_{IT}$             | kA         | —                                                                                  | —             | —             |                            |  |  |
| Overvoltage category/pollution degree                                 |                                                                     |                      |            | III/3                                                                              | III/3         | III/3         |                            |  |  |
| Rated insulation voltage                                              |                                                                     | $U_i$                | V          | 1000                                                                               | 1000          | 1000          |                            |  |  |
| Switching capacity                                                    |                                                                     |                      |            |                                                                                    |               |               |                            |  |  |
| Rated short-circuit making capacity                                   |                                                                     | up to 440 V 50/60 Hz | $I_{cm}$   | kA                                                                                 | 105.0         | 105.0         | 105.0                      |  |  |
|                                                                       |                                                                     | up to 690 V 50/60 Hz | $I_{cm}$   | kA                                                                                 | 105.0         | 105.0         | 105.0                      |  |  |
| Rated short-time withstand current 50/60 Hz                           |                                                                     | t = 1 s              | $I_{cw}$   | kA                                                                                 | 50            | 50            | 50                         |  |  |
|                                                                       |                                                                     | t = 3 s              | $I_{cw}$   | kA                                                                                 | —             | —             | —                          |  |  |
| Operating delays                                                      | Total opening delay                                                 |                      |            | ms                                                                                 | 30            | 30            | 30                         |  |  |
|                                                                       | Closing delay                                                       |                      |            | ms                                                                                 | 35            | 35            | 35                         |  |  |
|                                                                       | Closing delay electrical (via closing release)                      |                      |            | ms                                                                                 | 40            | 40            | 40                         |  |  |
|                                                                       | Opening delay electrical (via shunt release / undervoltage release) |                      |            | ms                                                                                 | 35/70         | 35/70         | 35/70                      |  |  |
| Lifespan                                                              | mechanical, without maintenance                                     |                      | Operations |                                                                                    | 12500         | 12500         | 12500                      |  |  |
|                                                                       | mechanical, with maintenance                                        |                      | Operations |                                                                                    | 20000         | 20000         | 20000                      |  |  |
|                                                                       | electrical, without maintenance                                     |                      | Operations |                                                                                    | 10000         | 10000         | 10000                      |  |  |
|                                                                       | electrical, with maintenance                                        |                      | Operations |                                                                                    | 10000         | 10000         | 10000                      |  |  |
| Maximum operating frequency                                           |                                                                     | Operations/h         |            | 60                                                                                 | 60            | 60            |                            |  |  |
| Heat dissipation at rated current $I_n$ with 3-phase symmetrical load |                                                                     | Fixed mounting       | W          | 60                                                                                 | 95            | 150           |                            |  |  |
|                                                                       |                                                                     | Withdrawable units   | W          | 110                                                                                | 170           | 260           |                            |  |  |
| Weight                                                                |                                                                     |                      |            |                                                                                    |               |               |                            |  |  |
| Fixed mounting                                                        |                                                                     | 3-pole               | kg         | 43.00                                                                              | 43.00         | 43.00         |                            |  |  |
|                                                                       |                                                                     | 4-pole               | kg         | 54.00                                                                              | 54.00         | 54.00         |                            |  |  |
| Withdrawable units                                                    |                                                                     | 3-pole               | kg         | 48.00                                                                              | 48.00         | 48.00         |                            |  |  |
|                                                                       |                                                                     | 4-pole               | kg         | 62.00                                                                              | 62.00         | 62.00         |                            |  |  |

Notes

<sup>1)</sup> Permissible continuous current for circuit-breakers operating in switchboards at various internal ambient temperatures. The switchboard's internal ambient temperature should be estimated using the calculation methods of IEC regulation.

| http://catalog.moeller.net                                                          |               | Moeller NK1230-1187en |               | IN...         |               |               |
|-------------------------------------------------------------------------------------|---------------|-----------------------|---------------|---------------|---------------|---------------|
| IN20B...16...                                                                       | IN20B...20... | IN20N...08...         | IN20N...10... | IN20N...12... | IN20N...16... | IN20N...20... |
| IEC/EN 60947                                                                        |               |                       |               |               |               |               |
| -40 - +70                                                                           |               |                       |               |               |               |               |
| -25 - +70                                                                           |               |                       |               |               |               |               |
|  |               |                       |               |               |               |               |
| B                                                                                   |               |                       |               |               |               |               |
| IP20, IP54 with protective cover                                                    |               |                       |               |               |               |               |
| as required                                                                         |               |                       |               |               |               |               |
| 1600                                                                                | 2000          | 800                   | 1000          | 1250          | 1600          | 2000          |
| 1600                                                                                | 2000          | 800                   | 1000          | 1250          | 1600          | 2000          |
| 1500                                                                                | 1800          | 800                   | 1000          | 1100          | 1500          | 1800          |
| 1350                                                                                | 1650          | 800                   | 1000          | 1000          | 1350          | 1650          |
| 12000                                                                               | 12000         | 12000                 | 12000         | 12000         | 12000         | 12000         |
| 690                                                                                 | 690           | 690                   | 690           | 690           | 690           | 690           |
| 23.0                                                                                | 32.1          | 21.5                  | 21.5          | 21.5          | 23.0          | 32.1          |
| —                                                                                   | —             | —                     | —             | —             | —             | —             |
| III/3                                                                               | III/3         | III/3                 | III/3         | III/3         | III/3         | III/3         |
| 1000                                                                                | 1000          | 1000                  | 1000          | 1000          | 1000          | 1000          |
| 105.0                                                                               | 105.0         | 143.0                 | 143.0         | 143.0         | 143.0         | 143.0         |
| 105.0                                                                               | 105.0         | 143.0                 | 143.0         | 143.0         | 143.0         | 143.0         |
| 50                                                                                  | 50            | 65                    | 65            | 65            | 65            | 65            |
| —                                                                                   | 30            | 40                    | 40            | 40            | 40            | 40            |
| 30                                                                                  | 30            | 30                    | 30            | 30            | 30            | 30            |
| 35                                                                                  | 35            | 35                    | 35            | 35            | 35            | 35            |
| 40                                                                                  | 40            | 40                    | 40            | 40            | 40            | 40            |
| 35/70                                                                               | 35/70         | 35/70                 | 35/70         | 35/70         | 35/70         | 35/70         |
| 12500                                                                               | 10000         | 12500                 | 12500         | 12500         | 12500         | 10000         |
| 20000                                                                               | 16000         | 20000                 | 20000         | 20000         | 20000         | 16000         |
| 10000                                                                               | 8000          | 10000                 | 10000         | 10000         | 10000         | 8000          |
| 10000                                                                               | 8000          | 10000                 | 10000         | 10000         | 10000         | 8000          |
| 60                                                                                  | 60            | 60                    | 60            | 60            | 60            | 60            |
| 240                                                                                 | 280           | 45                    | 70            | 110           | 180           | 280           |
| 420                                                                                 | 560           | 90                    | 140           | 220           | 360           | 560           |
| 43.00                                                                               | 43.00         | 43.00                 | 43.00         | 43.00         | 43.00         | 43.00         |
| 54.00                                                                               | 54.00         | 54.00                 | 54.00         | 54.00         | 54.00         | 54.00         |
| 48.00                                                                               | 48.00         | 48.00                 | 48.00         | 48.00         | 48.00         | 48.00         |
| 62.00                                                                               | 62.00         | 62.00                 | 62.00         | 62.00         | 62.00         | 62.00         |

| IN...                                                                 |                                                                     |              | Moeller NK1230-1187en                                                              |               | http://catalog.moeller.net |
|-----------------------------------------------------------------------|---------------------------------------------------------------------|--------------|------------------------------------------------------------------------------------|---------------|----------------------------|
|                                                                       |                                                                     |              | IN32B...08...                                                                      | IN32B...10... | IN32B...12...              |
| General                                                               |                                                                     |              |                                                                                    |               |                            |
| Standards                                                             |                                                                     |              | IEC/EN 60947                                                                       |               |                            |
| Ambient temperature                                                   | Storage                                                             | °C           | -40 - +70                                                                          |               |                            |
|                                                                       | Operating (open)                                                    | °C           | -25 - +70                                                                          |               |                            |
| Mounting position                                                     |                                                                     |              |  |               |                            |
| Utilization category                                                  |                                                                     |              | B                                                                                  |               |                            |
| Protection type                                                       |                                                                     |              | IP20, IP54 with protective cover                                                   |               |                            |
| Direction of incoming supply                                          |                                                                     |              | as required                                                                        |               |                            |
| Main conducting paths                                                 |                                                                     |              |                                                                                    |               |                            |
| Rated current = rated uninterrupted current                           | $I_n = I_u$                                                         | A            | 800                                                                                | 1000          | 1250                       |
| Rated uninterrupted current at 50 °C <sup>1)</sup>                    | $I_u$                                                               | A            | 800                                                                                | 1000          | 1250                       |
| Rated uninterrupted current at 60 °C <sup>1)</sup>                    | $I_u$                                                               | A            | 800                                                                                | 1000          | 1250                       |
| Rated uninterrupted current at 70 °C <sup>1)</sup>                    | $I_u$                                                               | A            | 800                                                                                | 1000          | 1250                       |
| Rated impulse withstand voltage                                       | $U_{imp}$                                                           | V AC         | 12000                                                                              | 12000         | 12000                      |
| Rated operational voltage                                             | $U_e$                                                               | V AC         | 690                                                                                | 690           | 690                        |
| Use in IT electrical power networks up to $U = 440$ V                 | $I_{IT}$                                                            | kA           | 13.6                                                                               | 13.6          | 13.6                       |
| Use in IT electrical power networks up to $U = 690$ V                 | $I_{IT}$                                                            | kA           | 13.6                                                                               | 13.6          | 13.6                       |
| Overvoltage category/pollution degree                                 |                                                                     |              | III/3                                                                              | III/3         | III/3                      |
| Rated insulation voltage                                              | $U_i$                                                               | V            | 1000                                                                               | 1000          | 1000                       |
| Switching capacity                                                    |                                                                     |              |                                                                                    |               |                            |
| Rated short-circuit making capacity                                   | up to 440 V 50/60 Hz                                                | $I_{cm}$     | kA                                                                                 | 143.0         | 143.0                      |
|                                                                       | up to 690 V 50/60 Hz                                                | $I_{cm}$     | kA                                                                                 | 143.0         | 143.0                      |
| Rated short-time withstand current 50/60 Hz                           | t = 1 s                                                             | $I_{cw}$     | kA                                                                                 | 65            | 65                         |
|                                                                       | t = 3 s                                                             | $I_{cw}$     | kA                                                                                 | –             | –                          |
| Operating delays                                                      | Total opening delay                                                 |              | ms                                                                                 | 30            | 30                         |
|                                                                       | Closing delay                                                       |              | ms                                                                                 | 35            | 35                         |
|                                                                       | Closing delay electrical (via closing release)                      |              | ms                                                                                 | 40            | 40                         |
|                                                                       | Opening delay electrical (via shunt release / undervoltage release) |              | ms                                                                                 | 35/70         | 35/70                      |
| Lifespan                                                              | mechanical, without maintenance                                     | Operations   |                                                                                    | 12500         | 12500                      |
|                                                                       | mechanical, with maintenance                                        | Operations   |                                                                                    | 20000         | 20000                      |
|                                                                       | electrical, without maintenance                                     | Operations   |                                                                                    | 10000         | 10000                      |
|                                                                       | electrical, with maintenance                                        | Operations   |                                                                                    | 10000         | 10000                      |
| Maximum operating frequency                                           |                                                                     | Operations/h |                                                                                    | 60            | 60                         |
| Heat dissipation at rated current $I_n$ with 3-phase symmetrical load | Fixed mounting                                                      | W            | 40                                                                                 | 60            | 90                         |
|                                                                       | Withdrawable units                                                  | W            | 85                                                                                 | 130           | 200                        |
| Weight                                                                |                                                                     |              |                                                                                    |               |                            |
| Fixed mounting                                                        | 3-pole                                                              | kg           | 58.00                                                                              | 58.00         | 58.00                      |
|                                                                       | 4-pole                                                              | kg           | 72.00                                                                              | 72.00         | 72.00                      |
| Withdrawable units                                                    | 3-pole                                                              | kg           | 70.00                                                                              | 70.00         | 70.00                      |
|                                                                       | 4-pole                                                              | kg           | 88.00                                                                              | 88.00         | 88.00                      |

Notes

<sup>1)</sup> Permissible continuous current for circuit-breakers operating in switchboards at various internal ambient temperatures. The switchboard's internal ambient temperature should be estimated using the calculation methods of IEC regulation.

| http://catalog.moeller.net                                                          |               | Moeller NK1230-1187en |               | IN... |
|-------------------------------------------------------------------------------------|---------------|-----------------------|---------------|-------|
| IN32B...16...                                                                       | IN32B...20... | IN32B...25...         | IN32B...32... |       |
|                                                                                     |               |                       |               |       |
| IEC/EN 60947                                                                        |               |                       |               |       |
| -40 - +70                                                                           |               |                       |               |       |
| -25 - +70                                                                           |               |                       |               |       |
|  |               |                       |               |       |
| B                                                                                   |               |                       |               |       |
| IP20, IP54 with protective cover                                                    |               |                       |               |       |
| as required                                                                         |               |                       |               |       |
|                                                                                     |               |                       |               |       |
| 1600                                                                                | 2000          | 2500                  | 3200          |       |
| 1600                                                                                | 2000          | 2500                  | 3100          |       |
| 1600                                                                                | 2000          | 2500                  | 2800          |       |
| 1600                                                                                | 2000          | 2500                  | 2550          |       |
| 12000                                                                               | 12000         | 12000                 | 12000         |       |
| 690                                                                                 | 690           | 690                   | 690           |       |
| 23.5                                                                                | 28.9          | 39.6                  | 39.6          |       |
| 23.5                                                                                | 28.9          | 39.6                  | 39.6          |       |
| III/3                                                                               | III/3         | III/3                 | III/3         |       |
| 1000                                                                                | 1000          | 1000                  | 1000          |       |
|                                                                                     |               |                       |               |       |
| 143.0                                                                               | 143.0         | 143.0                 | 143.0         |       |
| 143.0                                                                               | 143.0         | 143.0                 | 143.0         |       |
| 65                                                                                  | 65            | 65                    | 65            |       |
| –                                                                                   | 50            | 50                    | 50            |       |
| 30                                                                                  | 30            | 30                    | 30            |       |
| 35                                                                                  | 35            | 35                    | 35            |       |
| 40                                                                                  | 40            | 40                    | 40            |       |
| 35/70                                                                               | 35/70         | 35/70                 | 35/70         |       |
| 12500                                                                               | 10000         | 8000                  | 8000          |       |
| 20000                                                                               | 16000         | 12800                 | 12800         |       |
| 10000                                                                               | 10000         | 8000                  | 8000          |       |
| 10000                                                                               | 10000         | 8000                  | 8000          |       |
| 60                                                                                  | 60            | 60                    | 60            |       |
| 150                                                                                 | 190           | 200                   | 320           |       |
| 330                                                                                 | 330           | 500                   | 800           |       |
|                                                                                     |               |                       |               |       |
| 58.00                                                                               | 63.00         | 68.00                 | 68.00         |       |
| 72.00                                                                               | 78.00         | 86.00                 | 86.00         |       |
| 70.00                                                                               | 75.00         | 86.00                 | 86.00         |       |
| 88.00                                                                               | 94.00         | 112.00                | 112.00        |       |

| IN...                                                                 |                                                                     |            | Moeller NK1230-1187en                                                              |               | http://catalog.moeller.net |
|-----------------------------------------------------------------------|---------------------------------------------------------------------|------------|------------------------------------------------------------------------------------|---------------|----------------------------|
|                                                                       |                                                                     |            | IN32N...08...                                                                      | IN32N...10... | IN32N...12...              |
| General                                                               |                                                                     |            |                                                                                    |               |                            |
| Standards                                                             |                                                                     |            | IEC/EN 60947                                                                       |               |                            |
| Ambient temperature                                                   | Storage                                                             | °C         | -40 - +70                                                                          |               |                            |
|                                                                       | Operating (open)                                                    | °C         | -25 - +70                                                                          |               |                            |
| Mounting position                                                     |                                                                     |            |  |               |                            |
| Utilization category                                                  |                                                                     |            | B                                                                                  |               |                            |
| Protection type                                                       |                                                                     |            | IP20, IP54 with protective cover                                                   |               |                            |
| Direction of incoming supply                                          |                                                                     |            | as required                                                                        |               |                            |
| Main conducting paths                                                 |                                                                     |            |                                                                                    |               |                            |
| Rated current = rated uninterrupted current                           | $I_n = I_u$                                                         | A          | 800                                                                                | 1000          | 1250                       |
| Rated uninterrupted current at 50 °C <sup>1)</sup>                    | $I_u$                                                               | A          | 800                                                                                | 1000          | 1250                       |
| Rated uninterrupted current at 60 °C <sup>1)</sup>                    | $I_u$                                                               | A          | 800                                                                                | 1000          | 1250                       |
| Rated uninterrupted current at 70 °C <sup>1)</sup>                    | $I_u$                                                               | A          | 800                                                                                | 1000          | 1250                       |
| Rated impulse withstand voltage                                       | $U_{imp}$                                                           | V AC       | 12000                                                                              | 12000         | 12000                      |
| Rated operational voltage                                             | $U_e$                                                               | V AC       | 690                                                                                | 690           | 690                        |
| Use in IT electrical power networks up to $U = 440$ V                 | $I_{IT}$                                                            | kA         | 13.6                                                                               | 13.6          | 13.6                       |
| Use in IT electrical power networks up to $U = 690$ V                 | $I_{IT}$                                                            | kA         | 13.6                                                                               | 13.6          | 13.6                       |
| Overvoltage category/pollution degree                                 |                                                                     |            | III/3                                                                              | III/3         | III/3                      |
| Rated insulation voltage                                              | $U_i$                                                               | V          | 1000                                                                               | 1000          | 1000                       |
| Switching capacity                                                    |                                                                     |            |                                                                                    |               |                            |
| Rated short-circuit making capacity                                   | up to 440 V 50/60 Hz                                                | $I_{cm}$   | kA                                                                                 | 187.0         | 187.0                      |
|                                                                       | up to 690 V 50/60 Hz                                                | $I_{cm}$   | kA                                                                                 | 187.0         | 187.0                      |
| Rated short-time withstand current 50/60 Hz                           | t = 1 s                                                             | $I_{cw}$   | kA                                                                                 | 85            | 85                         |
|                                                                       | t = 3 s                                                             | $I_{cw}$   | kA                                                                                 | 65            | 65                         |
| Operating delays                                                      | Total opening delay                                                 |            | ms                                                                                 | 30            | 30                         |
|                                                                       | Closing delay                                                       |            | ms                                                                                 | 35            | 35                         |
|                                                                       | Closing delay electrical (via closing release)                      |            | ms                                                                                 | 40            | 40                         |
|                                                                       | Opening delay electrical (via shunt release / undervoltage release) |            | ms                                                                                 | 35/70         | 35/70                      |
| Lifespan                                                              | mechanical, without maintenance                                     | Operations |                                                                                    | 10000         | 10000                      |
|                                                                       | mechanical, with maintenance                                        | Operations |                                                                                    | 16000         | 16000                      |
|                                                                       | electrical, without maintenance                                     | Operations |                                                                                    | 10000         | 10000                      |
|                                                                       | electrical, with maintenance                                        | Operations |                                                                                    | 10000         | 10000                      |
| Maximum operating frequency                                           |                                                                     |            | Operations/h                                                                       | 60            | 60                         |
| Heat dissipation at rated current $I_n$ with 3-phase symmetrical load | Fixed mounting                                                      | W          | 35                                                                                 | 50            | 70                         |
|                                                                       | Withdrawable units                                                  | W          | 70                                                                                 | 95            | 140                        |
| Weight                                                                |                                                                     |            |                                                                                    |               |                            |
| Fixed mounting                                                        | 3-pole                                                              | kg         | 68.00                                                                              | 68.00         | 68.00                      |
|                                                                       | 4-pole                                                              | kg         | 86.00                                                                              | 86.00         | 86.00                      |
| Withdrawable units                                                    | 3-pole                                                              | kg         | 80.00                                                                              | 80.00         | 80.00                      |
|                                                                       | 4-pole                                                              | kg         | 102.00                                                                             | 102.00        | 102.00                     |

Notes

<sup>1)</sup> Permissible continuous current for circuit-breakers operating in switchboards at various internal ambient temperatures. The switchboard's internal ambient temperature should be estimated using the calculation methods of IEC regulation.

| http://catalog.moeller.net                                                          |               | Moeller NK1230-1187en |               |            |  |
|-------------------------------------------------------------------------------------|---------------|-----------------------|---------------|------------|--|
| IN32N...16...                                                                       | IN32N...20... | IN32N...25...         | IN32N...32... | IN32S...   |  |
|                                                                                     |               |                       |               |            |  |
| IEC/EN 60947                                                                        |               |                       |               |            |  |
| -40 - +70                                                                           |               |                       |               |            |  |
| -25 - +70                                                                           |               |                       |               |            |  |
|  |               |                       |               |            |  |
| B                                                                                   |               |                       |               |            |  |
| IP20, IP54 with protective cover                                                    |               |                       |               |            |  |
| as required                                                                         |               |                       |               |            |  |
|                                                                                     |               |                       |               |            |  |
| 1600                                                                                | 2000          | 2500                  | 3200          | 3200       |  |
| 1600                                                                                | 2000          | 2500                  | 3100          | 3100       |  |
| 1600                                                                                | 2000          | 2500                  | 2800          | 2800       |  |
| 1600                                                                                | 2000          | 2500                  | 2550          | 2550       |  |
| 12000                                                                               | 12000         | 12000                 | 12000         | 12000      |  |
| 690                                                                                 | 690           | 690                   | 690           | 690        |  |
| 23.5                                                                                | 28.9          | 39.6                  | 39.6          | 39.6       |  |
| 23.5                                                                                | 28.9          | 39.6                  | 39.6          | 39.6       |  |
| III/3                                                                               | III/3         | III/3                 | III/3         | III/3      |  |
| 1000                                                                                | 1000          | 1000                  | 1000          | 1100       |  |
|                                                                                     |               |                       |               |            |  |
| 187.0                                                                               | 187.0         | 187.0                 | 187.0         | 52.5       |  |
| 187.0                                                                               | 187.0         | 187.0                 | 187.0         | 52.5       |  |
| 85                                                                                  | 85            | 85                    | 85            | on request |  |
| 65                                                                                  | 65            | 65                    | 65            | –          |  |
| 30                                                                                  | 30            | 30                    | 30            | 30         |  |
| 35                                                                                  | 35            | 35                    | 35            | 35         |  |
| 40                                                                                  | 40            | 40                    | 40            | 40         |  |
| 35/70                                                                               | 35/70         | 35/70                 | 35/70         | 35/70      |  |
| 10000                                                                               | 10000         | 8000                  | 8000          | 8000       |  |
| 16000                                                                               | 16000         | 12800                 | 12800         | 12800      |  |
| 10000                                                                               | 10000         | 8000                  | 8000          | 8000       |  |
| 10000                                                                               | 10000         | 8000                  | 8000          | 8000       |  |
| 60                                                                                  | 60            | 60                    | 60            | 60         |  |
| 120                                                                                 | 190           | 200                   | 320           | 320        |  |
| 240                                                                                 | 380           | 500                   | 800           | 800        |  |
|                                                                                     |               |                       |               |            |  |
| 68.00                                                                               | 68.00         | 70.00                 | 70.00         | 70.00      |  |
| 86.00                                                                               | 86.00         | 89.00                 | 89.00         | 89.00      |  |
| 80.00                                                                               | 80.00         | 88.00                 | 88.00         | 88.00      |  |
| 102.00                                                                              | 102.00        | 115.00                | 115.00        | 115.00     |  |

| IN...                                                                 |                                                                     |            | Moeller NK1230-1187en                                                              |               | http://catalog.moeller.net |
|-----------------------------------------------------------------------|---------------------------------------------------------------------|------------|------------------------------------------------------------------------------------|---------------|----------------------------|
|                                                                       |                                                                     |            | IN40N...40...                                                                      | IN40H...40... | IN63N...40...              |
| General                                                               |                                                                     |            |                                                                                    |               |                            |
| Standards                                                             |                                                                     |            | IEC/EN 60947                                                                       |               |                            |
| Ambient temperature                                                   | Storage                                                             | °C         | -40 - +70                                                                          |               |                            |
|                                                                       | Operating (open)                                                    | °C         | -25 - +70                                                                          |               |                            |
| Mounting position                                                     |                                                                     |            |  |               |                            |
| Utilization category                                                  |                                                                     |            | B                                                                                  |               |                            |
| Protection type                                                       |                                                                     |            | IP20, IP54 with protective cover                                                   |               |                            |
| Direction of incoming supply                                          |                                                                     |            | as required                                                                        |               |                            |
| Main conducting paths                                                 |                                                                     |            |                                                                                    |               |                            |
| Rated current = rated uninterrupted current                           | $I_n = I_u$                                                         | A          | 4000                                                                               | 4000          | 4000                       |
| Rated uninterrupted current at 50 °C <sup>1)</sup>                    | $I_u$                                                               | A          | 4000                                                                               | 4000          | 4000                       |
| Rated uninterrupted current at 60 °C <sup>1)</sup>                    | $I_u$                                                               | A          | 4000                                                                               | 4000          | 4000                       |
| Rated uninterrupted current at 70 °C <sup>1)</sup>                    | $I_u$                                                               | A          | 3776                                                                               | 3776          | 4000                       |
| Rated impulse withstand voltage                                       | $U_{imp}$                                                           | V AC       | 12000                                                                              | 12000         | 12000                      |
| Rated operational voltage                                             | $U_e$                                                               | V AC       | 690                                                                                | 690           | 690                        |
| Use in IT electrical power networks up to $U = 440$ V                 | $I_{IT}$                                                            | kA         | 48.0                                                                               | 48.0          | —                          |
| Use in IT electrical power networks up to $U = 690$ V                 | $I_{IT}$                                                            | kA         | —                                                                                  | —             | —                          |
| Overvoltage category/pollution degree                                 |                                                                     |            | III/3                                                                              | III/3         | III/3                      |
| Rated insulation voltage                                              | $U_i$                                                               | V          | 1000                                                                               | 1000          | 1000                       |
| Switching capacity                                                    |                                                                     |            |                                                                                    |               |                            |
| Rated short-circuit making capacity                                   | up to 440 V 50/60 Hz                                                | $I_{cm}$   | kA                                                                                 | 187.0         | 220.0                      |
|                                                                       | up to 690 V 50/60 Hz                                                | $I_{cm}$   | kA                                                                                 | 187.0         | 187.0                      |
| Rated short-time withstand current 50/60 Hz                           | t = 1 s                                                             | $I_{cw}$   | kA                                                                                 | 85            | 100                        |
|                                                                       | t = 3 s                                                             | $I_{cw}$   | kA                                                                                 | 65            | 65                         |
| Operating delays                                                      | Total opening delay                                                 |            | ms                                                                                 | 30            | 40                         |
|                                                                       | Closing delay                                                       |            | ms                                                                                 | 35            | 35                         |
|                                                                       | Closing delay electrical (via closing release)                      |            | ms                                                                                 | 40            | 40                         |
|                                                                       | Opening delay electrical (via shunt release / undervoltage release) |            | ms                                                                                 | 35/70         | 35/70                      |
| Lifespan                                                              | mechanical, without maintenance                                     | Operations |                                                                                    | 5000          | 5000                       |
|                                                                       | mechanical, with maintenance                                        | Operations |                                                                                    | 8000          | 8000                       |
|                                                                       | electrical, without maintenance                                     | Operations |                                                                                    | 3000          | 3000                       |
|                                                                       | electrical, with maintenance                                        | Operations |                                                                                    | 3000          | 3000                       |
| Maximum operating frequency                                           |                                                                     |            | Operations/h                                                                       | 60            | 60                         |
| Heat dissipation at rated current $I_n$ with 3-phase symmetrical load | Fixed mounting                                                      | W          | 560                                                                                | 560           | 380                        |
|                                                                       | Withdrawable units                                                  | W          | 1100                                                                               | 1100          | 750                        |
| Weight                                                                |                                                                     |            |                                                                                    |               |                            |
| Fixed mounting                                                        | 3-pole                                                              | kg         | 83.00                                                                              | 83.00         | 107.50                     |
|                                                                       | 4-pole                                                              | kg         | 105.00                                                                             | 105.00        | 144.70                     |
| Withdrawable units                                                    | 3-pole                                                              | kg         | 98.00                                                                              | 98.00         | 138.80                     |
|                                                                       | 4-pole                                                              | kg         | 121.00                                                                             | 121.00        | 166.00                     |

Notes

<sup>1)</sup> Permissible continuous current for circuit-breakers operating in switchboards at various internal ambient temperatures. The switchboard's internal ambient temperature should be estimated using the calculation methods of IEC regulation.

| http://catalog.moeller.net                                                          |               | Moeller NK1230-1187en |               | IN...         |
|-------------------------------------------------------------------------------------|---------------|-----------------------|---------------|---------------|
| IN63N...50...                                                                       | IN63N...63... | IN63H...40...         | IN63H...50... | IN63H...63... |
|                                                                                     |               |                       |               |               |
| IEC/EN 60947                                                                        |               |                       |               |               |
| -40 - +70                                                                           |               |                       |               |               |
| -25 - +70                                                                           |               |                       |               |               |
|  |               |                       |               |               |
| B                                                                                   |               |                       |               |               |
| IP20, IP54 with protective cover                                                    |               |                       |               |               |
| as required                                                                         |               |                       |               |               |
| 5000                                                                                | 6300          | 4000                  | 5000          | 6300          |
| 5000                                                                                | 6200          | 4000                  | 5000          | 6200          |
| 5000                                                                                | 5600          | 4000                  | 5000          | 5600          |
| 5000                                                                                | 5100          | 4000                  | 5000          | 5100          |
| 12000                                                                               | 12000         | 12000                 | 12000         | 12000         |
| 690                                                                                 | 690           | 690                   | 690           | 690           |
| —                                                                                   | —             | —                     | —             | —             |
| —                                                                                   | —             | —                     | —             | —             |
| III/3                                                                               | III/3         | III/3                 | III/3         | III/3         |
| 1000                                                                                | 1000          | 1000                  | 1000          | 1000          |
| 187.0                                                                               | 187.0         | 220.0                 | 220.0         | 220.0         |
| 187.0                                                                               | 187.0         | 220.0                 | 220.0         | 220.0         |
| 85                                                                                  | 85            | 100                   | 100           | 100           |
| 65                                                                                  | 65            | 65                    | 65            | 65            |
| 40                                                                                  | 40            | 40                    | 40            | 40            |
| 35                                                                                  | 35            | 35                    | 35            | 35            |
| 40                                                                                  | 40            | 40                    | 40            | 40            |
| 35/70                                                                               | 35/70         | 35/70                 | 35/70         | 35/70         |
| 5000                                                                                | 5000          | 5000                  | 5000          | 5000          |
| 8000                                                                                | 8000          | 8000                  | 8000          | 8000          |
| 3000                                                                                | 3000          | 3000                  | 3000          | 3000          |
| 3000                                                                                | 3000          | 3000                  | 3000          | 3000          |
| 60                                                                                  | 60            | 60                    | 60            | 60            |
| 400                                                                                 | 620           | 380                   | 400           | 620           |
| 1000                                                                                | 1550          | 750                   | 1000          | 1550          |
| 125.20                                                                              | 125.20        | 107.50                | 125.20        | 125.20        |
| 163.30                                                                              | 163.30        | 144.70                | 163.30        | 163.30        |
| 157.40                                                                              | 157.40        | 138.80                | 157.40        | 157.40        |
| 200.00                                                                              | 200.00        | 166.00                | 200.00        | 200.00        |

### Auxiliary switches, overcurrent trip switches, and cell switches

IZM-AS...

IZM-OTS

IZM-CS...

#### Rated breaking capacity

Inductive load

250 V AC

A

10

10

10

125 V DC

A

0.5

0.5

0.5

250 V DC

A

0.25

0.25

0.25

#### Shunt trips

IZM-ST24DC

IZM-ST524DC

IZM-ST48DC

IZM-ST548DC

IZM-ST110AD

IZM-ST5110AD

IZM-ST230AD

IZM-ST5230AD

#### Rated control voltage

AC 50/60 Hz

 $U_s$ 

V

–

–

110 - 127

208 - 240

DC

 $U_s$ 

V

24

48

110 - 125

220 - 250

#### Power consumption

AC

VA

–

–

(pick-up 450)

(pick-up 450)

DC

W

(pick-up 250)

(pick-up 250)

(pick-up 450)

(pick-up 450)

#### Circuit-breaker response time at $U_s$

ms

35

35

35

35

#### Operating range

Drop-out voltage

 $\times U_c$ 

–

Pick-up voltage

 $\times U_c$ 

According to the IEC standard

#### Spring releases

IZM-SR24DC

IZM-SR48DC

IZM-SR110AD

IZM-SR230AD

#### Rated control voltage

AC 50/60 Hz

 $U_s$ 

V

–

–

110 - 127

208 - 240

DC

 $U_s$ 

V

24

48

110 - 125

220 - 250

#### Power consumption

AC

VA

–

–

(pick-up 450)

(pick-up 450)

DC

W

(pick-up 250)

(pick-up 250)

(pick-up 450)

(pick-up 450)

#### Circuit-breaker response time at $U_s$

ms

40

40

40

40

#### Operating range

Drop-out voltage

 $\times U_c$ 

–

Pick-up voltage

 $\times U_c$ 

According to the IEC standard

|                                                          |              |    | Undervoltage releases         |                  |                  |                  |                  |
|----------------------------------------------------------|--------------|----|-------------------------------|------------------|------------------|------------------|------------------|
|                                                          |              |    | IZM-UVR24DC                   | IZM-UVR32DC      | IZM-UVR48DC      | IZM-UVR110AC     | IZM-UVR110DC     |
| <b>Rated control voltage</b>                             |              |    |                               |                  |                  |                  |                  |
| AC 50/60 Hz                                              | $U_s$        | V  | –                             | –                | –                | 110 - 127        | –                |
| DC                                                       | $U_s$        | V  | 24                            | 32               | 48               | –                | 110 - 125        |
| <b>Power consumption</b>                                 |              |    |                               |                  |                  |                  |                  |
| AC                                                       |              | VA | –                             | –                | –                | 10 (pick-up 450) | –                |
| DC                                                       |              | W  | 18 (pick-up 250)              | 15 (pick-up 275) | 18 (pick-up 275) | –                | 10 (pick-up 450) |
| <b>Circuit-breaker response time at <math>U_s</math></b> |              |    | ms                            | 70               | 70               | 70               | 70               |
| <b>Operating range</b>                                   |              |    |                               |                  |                  |                  |                  |
| Drop-out voltage                                         | $\times U_c$ |    | According to the IEC standard |                  |                  |                  |                  |
| Pick-up voltage                                          | $\times U_c$ |    | According to the IEC standard |                  |                  |                  |                  |

|                                                          |              |    | Undervoltage releases         |                  |                  |                  |                  |
|----------------------------------------------------------|--------------|----|-------------------------------|------------------|------------------|------------------|------------------|
|                                                          |              |    | IZM-UVR220DC                  | IZM-UVR230AC     | IZM-UVR400AC     | IZM-UVR480AC     | IZM-UVR600AC     |
| <b>Rated control voltage</b>                             |              |    |                               |                  |                  |                  |                  |
| AC 50/60 Hz                                              | $U_s$        | V  | –                             | 208 - 240        | 380 - 415        | 480              | 600              |
| DC                                                       | $U_s$        | V  | 220 - 250                     | –                | –                | –                | –                |
| <b>Power consumption</b>                                 |              |    |                               |                  |                  |                  |                  |
| AC                                                       |              | VA | –                             | 10 (pick-up 400) | 10 (pick-up 480) | 10 (pick-up 400) | 10 (pick-up 400) |
| DC                                                       |              | W  | 10 (pick-up 450)              | –                | –                | –                | –                |
| <b>Circuit-breaker response time at <math>U_s</math></b> |              |    | ms                            | 70               | 70               | 70               | 70               |
| <b>Operating range</b>                                   |              |    |                               |                  |                  |                  |                  |
| Drop-out voltage                                         | $\times U_c$ |    | According to the IEC standard |                  |                  |                  |                  |
| Pick-up voltage                                          | $\times U_c$ |    | According to the IEC standard |                  |                  |                  |                  |

|                                                                                                                              |       |    | Motor operators |           |            |            |            |            |
|------------------------------------------------------------------------------------------------------------------------------|-------|----|-----------------|-----------|------------|------------|------------|------------|
|                                                                                                                              |       |    | IZM-M24DC       | IZM-M48DC | IZM-M110DC | IZM-M220DC | IZM-M110AC | IZM-M230AC |
| <b>Rated control voltage</b>                                                                                                 |       |    |                 |           |            |            |            |            |
| AC 50/60 Hz                                                                                                                  | $U_s$ | V  | –               | –         | –          | –          | 110 - 127  | 208 - 240  |
| DC                                                                                                                           | $U_s$ | V  | 24              | 48        | 110 - 125  | 220 - 250  | –          | –          |
| <b>Necessary time requirement for charging of the spring-operated stored energy mechanism with <math>1 \times U_s</math></b> |       |    | s               | 5         | 5          | 5          | 5          | 5          |
| <b>Rated current</b>                                                                                                         |       |    | $I_n$           | A         | 12         | 5          | 2          | 1          |
| <b>Starting current</b>                                                                                                      |       |    | A               | 3         | 5          | 6          | 6          | 6          |
| <b>Power consumption</b>                                                                                                     |       |    |                 |           |            |            |            |            |
| AC 50/60 Hz                                                                                                                  |       | VA | 300             | 250       | 250        | 250        | 250        | 250        |
| DC                                                                                                                           |       | W  | 300             | 250       | 250        | 250        | 250        | 250        |

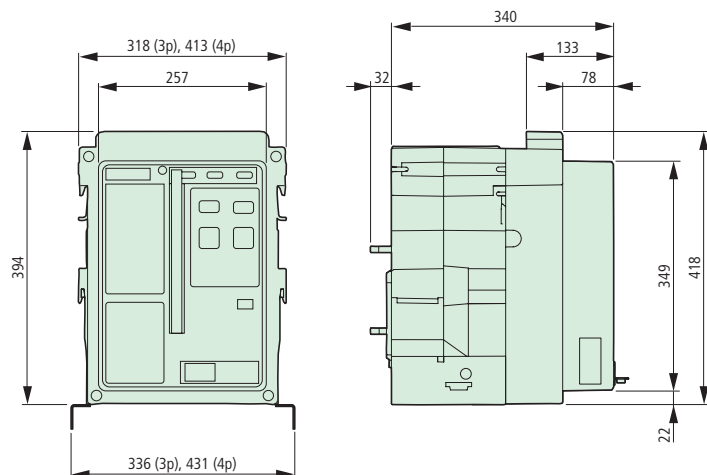
### IZM26, IN26

Moeller NK1230-1187en

<http://catalog.moeller.net>

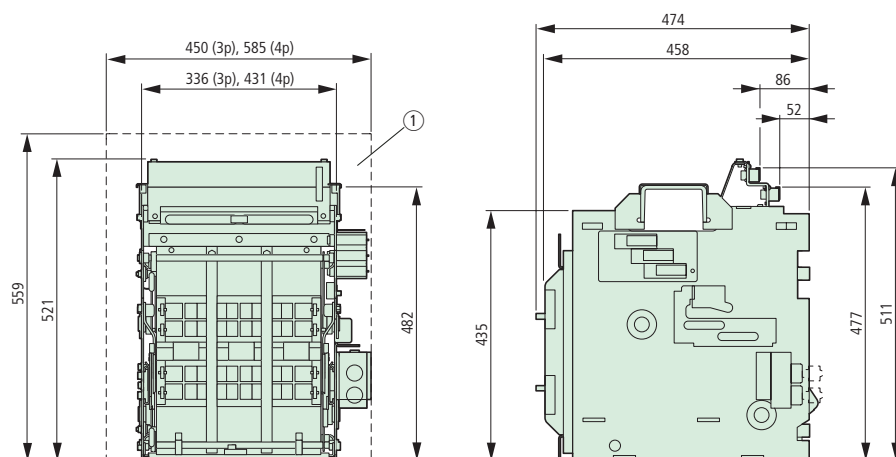
#### IN20, IZM20 fixed

IN20...F, IZM20...F



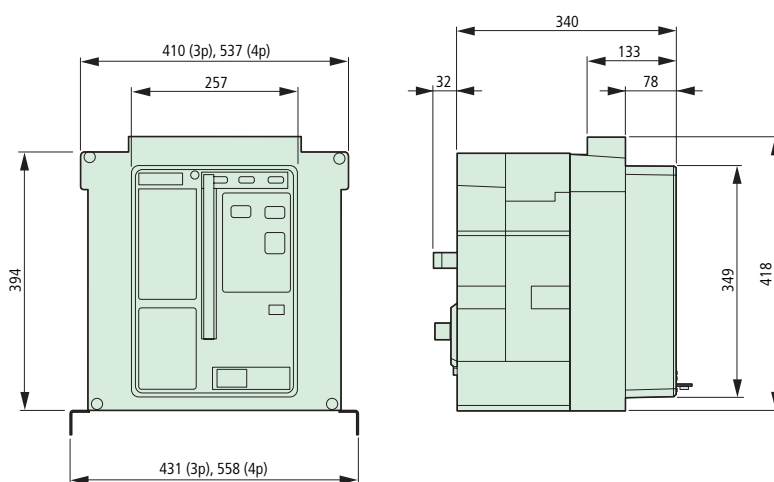
#### IN20, IZM20 withdrawable

IN20...W, IZM20...W



#### IN32, IZM32 fixed

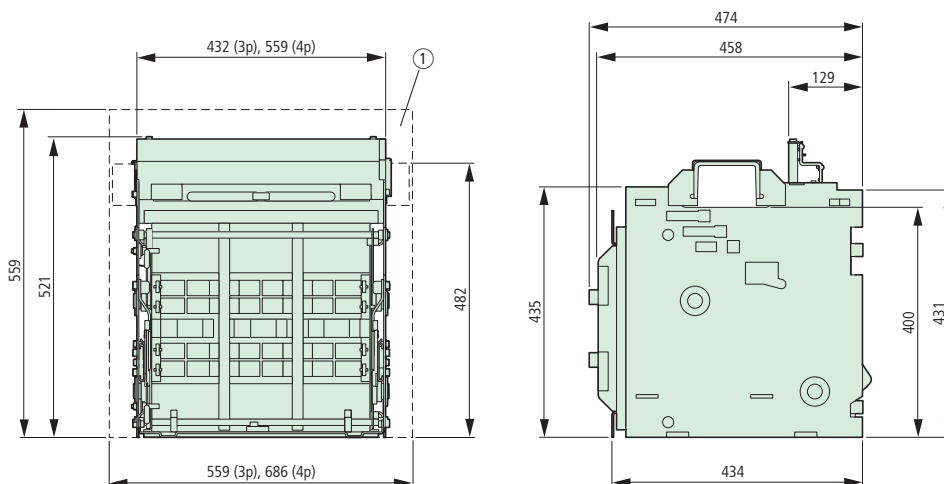
IN32...F, IZM32...F...



① Recommended minimum enclosure size (not to scale)

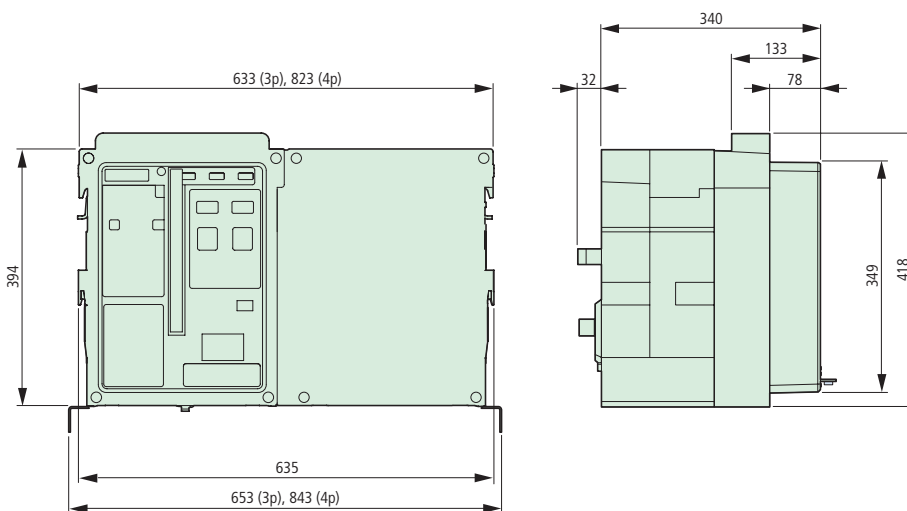
### IN32, IZM32 withdrawable

IN32...W, IZM32...W...



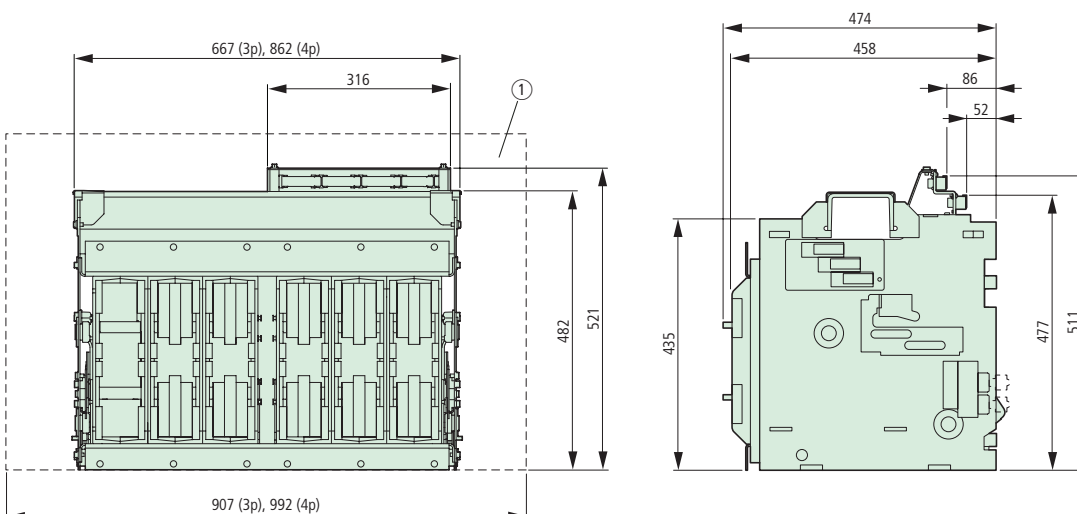
### IN40, IZM40 fixed

IN40...F, IZM40...F



### IN40, IZM40 withdrawable

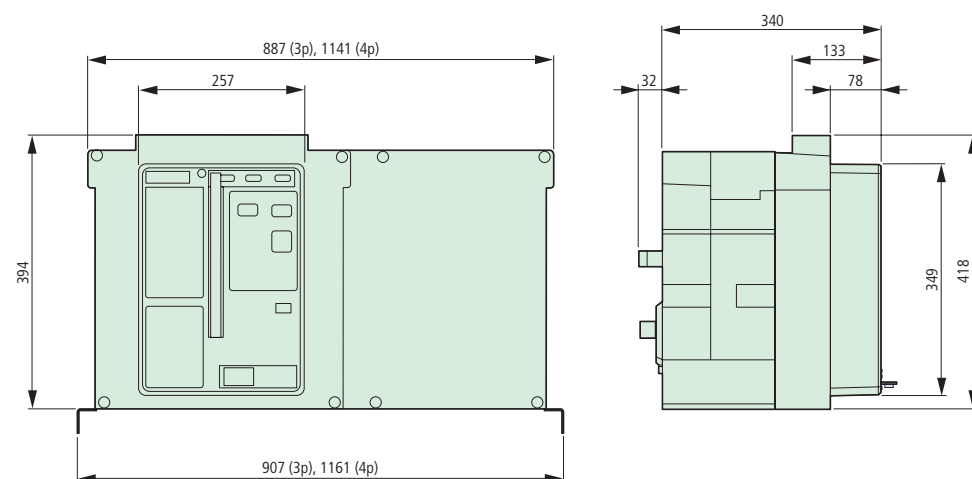
IN40...W, IZM40...W



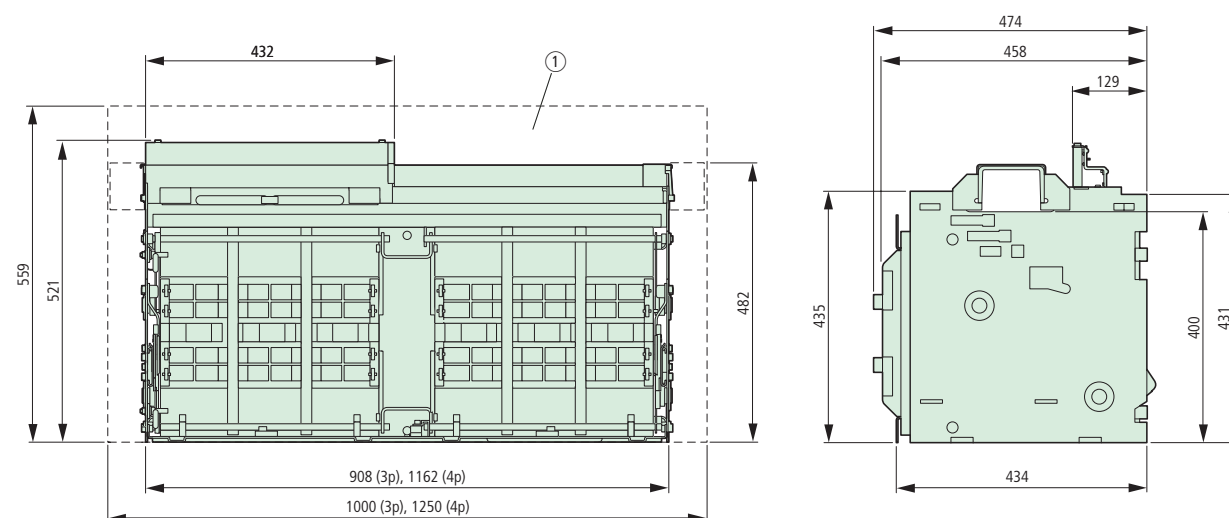
① Recommended minimum enclosure size (not to scale)

**IN63, IZM63 fixed**

IN63...F, IZM63...F

**IN63, IZM63 withdrawable**

IN63...W, IZM63...W



① Recommended minimum enclosure size (not to scale)

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