

TYPES
CH, CH-S

RATED VOLTAGE
~690V

Technical data:

Standards:
IEC 60269-4-1

Breaking capacity:
~200 kA
Rated voltage:
~600V, ~690V

Characteristic:
aR

Application:

Fuse-links of system C are applied in fuse disconnectors VLC.

CH10



CH22



Size	In (A)	Type without indicator	Code No. ETI	Operating I ² t-value (A ² s)	Power dissipation (W)	Type with striker	Code No. ETI	Char.	Pack. (pcs.)	Weight (g)
10x38	6	CH10UQ/6A/600V	002625005	30	1,5	-		aR	10	10
	8	CH10UQ/8A/600V	002625006	50	2	-		aR	10	10
	10	CH10UQ/10A/600V	002625007	70	2,5	-		aR	10	10
	12	CH10UQ/12A/600V	002625008	120	3	-		aR	10	10
	16	CH10UQ/16A/600V	002625009	150	3,5	-		aR	10	10
	20	CH10UQ/20A/600V	002625011	260	4,8	-		aR	10	10
	25	CH10UQ/25A/600V	002625013	290	6	-		aR	10	10
	32	CH10UQ/32A/600V	002625015	600	7,5	-		aR	10	10
14x51	10	CH14UQ/10A/690V	002635007	22	4	CH-S14UQ/10A/690V	002635107	aR	10	22,5
	12	CH14UQ/12A/690V	002635008	50	5	CH-S14UQ/12A/690V	002635108	aR	10	22,5
	16	CH14UQ/16A/690V	002635009	75	5,5	CH-S14UQ/16A/690V	002635109	aR	10	22,5
	20	CH14UQ/20A/690V	002635011	180	6	CH-S14UQ/20A/690V	002635111	aR	10	22,5
	25	CH14UQ/25A/690V	002635013	320	7	CH-S14UQ/25A/690V	002635113	aR	10	22,5
	32	CH14UQ/32A/690V	002635015	600	7,6	CH-S14UQ/32A/690V	002635115	aR	10	22,5
	40	CH14UQ/40A/690V	002635017	750	8	CH-S14UQ/40A/690V	002635117	aR	10	22,5
	50	CH14UQ/50A/690V	002635019	1.800	9	CH-S14UQ/50A/690V	002635119	aR	10	22,5
22x58	20	CH22UQ/20A/690V	002645011	260	5,6	CH-S22UQ/20A/690V	002645111	aR	10	45
	25	CH22UQ/25A/690V	002645013	410	5,6	CH-S22UQ/25A/690V	002645113	aR	10	45
	32	CH22UQ/32A/690V	002645015	605	7	CH-S22UQ/32A/690V	002645115	aR	10	45
	40	CH22UQ/40A/690V	002645017	750	8,5	CH-S22UQ/40A/690V	002645117	aR	10	45
	50	CH22UQ/50A/690V	002645019	1.600	9,5	CH-S22UQ/50A/690V	002645119	aR	10	45
	63	CH22UQ/63A/690V	002645021	3.080	11	CH-S22UQ/63A/690V	002645121	aR	10	45
	80	CH22UQ/80A/690V	002645023	6.600	13,5	CH-S22UQ/80A/690V	002645123	aR	10	45
	100	CH22UQ/100A/500V	002645025	12.500	16	CH-S22UQ/100A/500V	002645125	aR	10	45

CH10

6-25A (700V DC/breaking capacity ~ 50kA)
32A (400V DC/breaking capacity ~ 50kA)

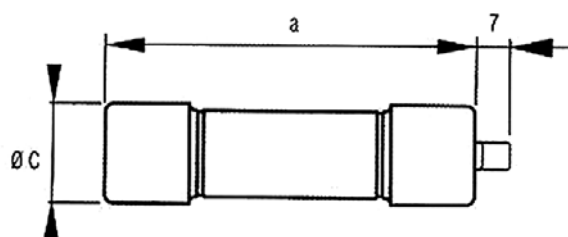
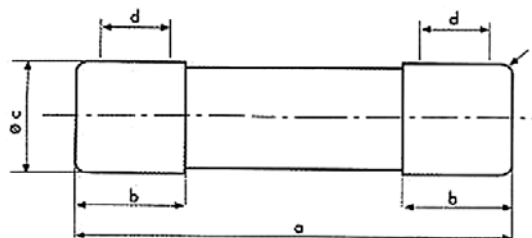
CH14, CH-S 14

700V DC/breaking capacity ~ 50kA

CH22, CH-S 22

500V DC/breaking capacity ~ 50kA

Dimensions: CH, CH-S and AQS-F



Size	a	b	c	d
10x38	38	10,5	10,3	6
14x51	51	13,8	14,3	7,5
22x58	58	16,2	22,3	11

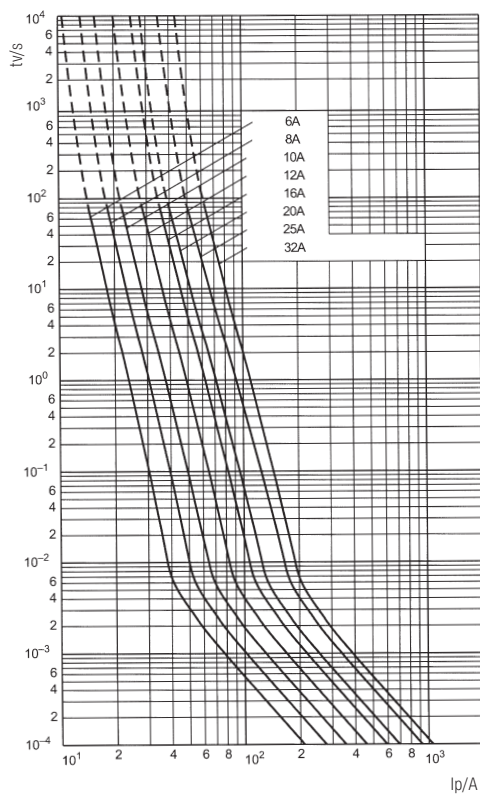
CHARACTERISTICS

SYSTEM **C**

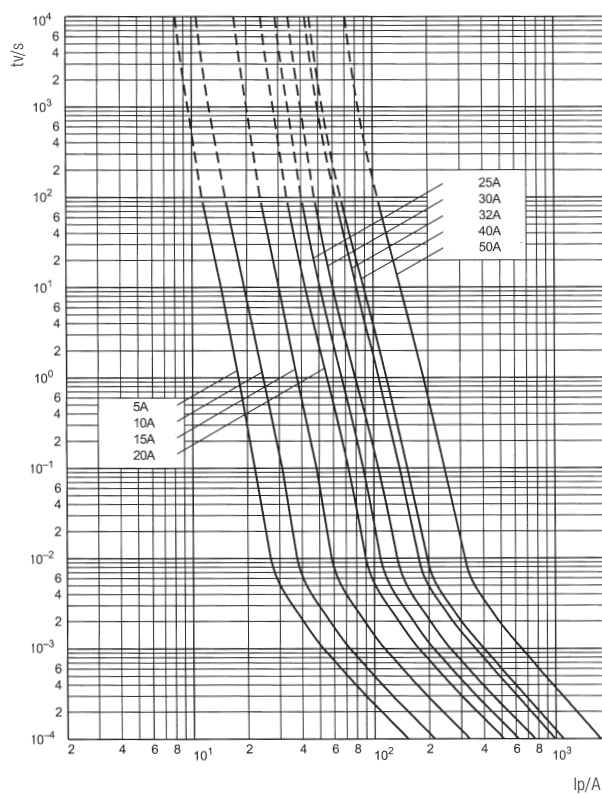
SERIES
CH, CH-S

RATED VOLTAGE
~600/690V

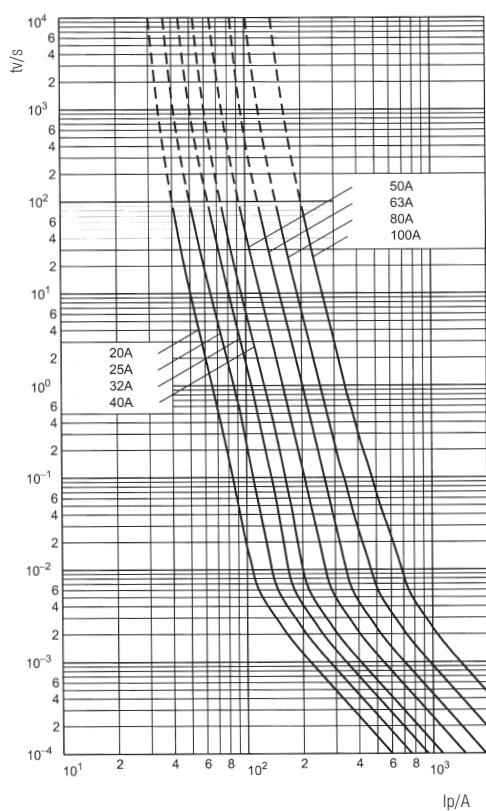
Time/current characteristics of fuse links Ultra quick CH-size 10 x 38



Time/current characteristics of fuse links Ultra quick CH, CH-S-size 14 x 51



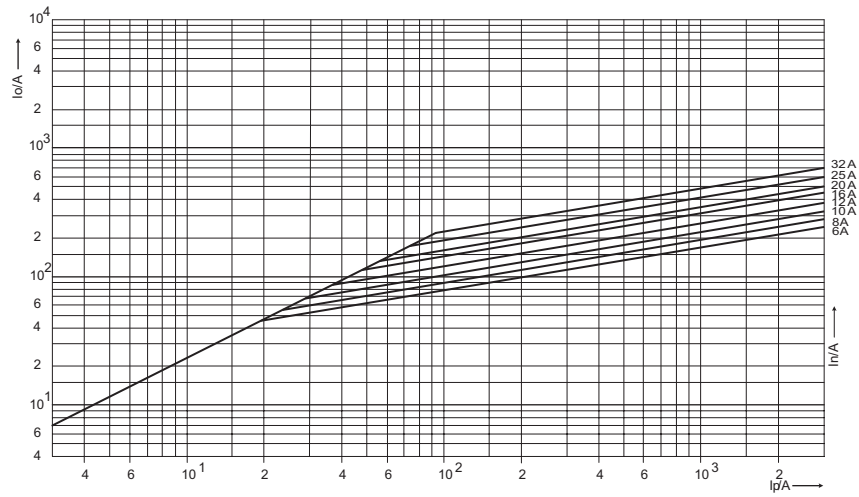
Time/current characteristics of fuse links Ultra quick CH, CH-S-size 22 x 58



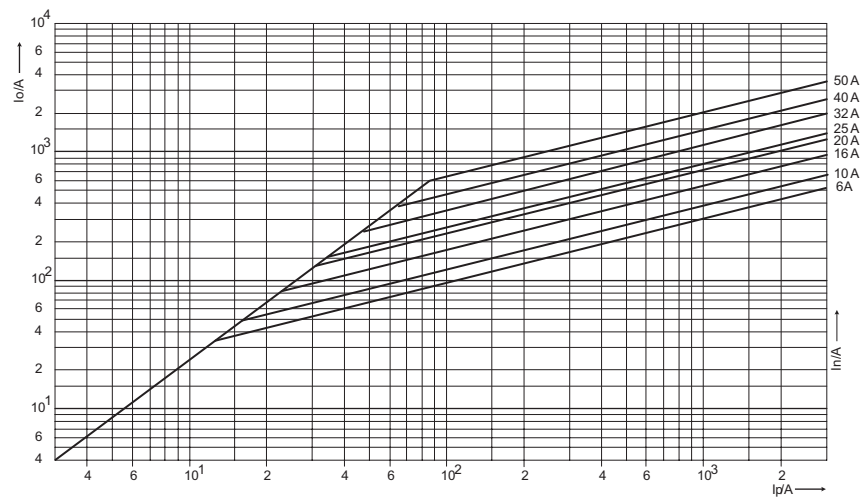
SERIES
CH, CH-S

RATED VOLTAGE
~600/690V

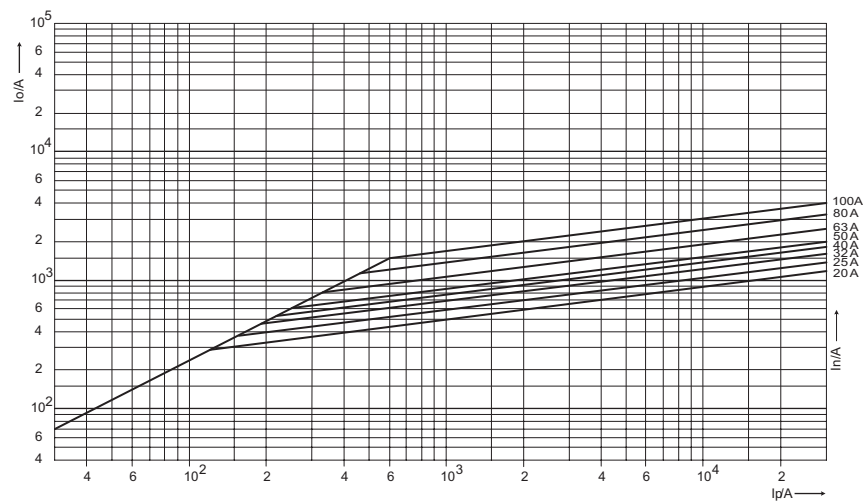
Cut-off characteristics of fuse-links Ultra Quick CH - size 10 x 38



Cut-off characteristics of fuse-links Ultra Quick CH, CH-S - size 14 x 51



Cut-off characteristics of fuse-links Ultra Quick CH, CH-S - size 22 x 58



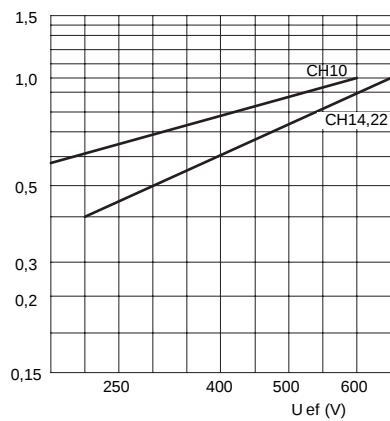
CHARACTERISTICS

SYSTEM **C**

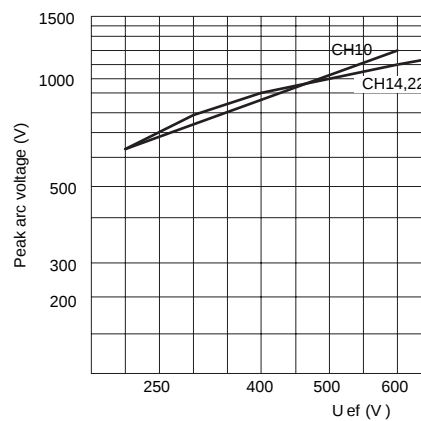
SERIES
CH, CH-S

RATED VOLTAGE
~ 600/690V

Conversion factor for total Joule integral



Maximum arc voltage accuring



Correction factor for converting the power dissipation for percentage load

Load(%)	Correction factor
10	0,005
20	0,025
30	0,063
40	0,122
50	0,204
60	0,31
70	0,442
80	0,6
90	0,785
100	1

SERIES
CH, CH-S

RATED VOLTAGE
~ 600/690V

Power dissipation, pre-arcing Joule integral and Operating Joule integral for Ultra Quick

Size	In	Power dissipation	Pre-arcing Joule integral I^2t (1ms)	Operating Joule Integral $I^2t \sim 180V$	Operating Joule Integral $I^2t \sim 330V$	Operating Joule Integral $I^2t \sim 600/690V$
	A	W	A ² s	A ² s	A ² s	A ² s
CH10	6	1,5	4	17	21	30
	8	2	6	29	35	50
	10	2,5	9	40	48	70
	12	3	15	68	83	120
	16	3,5	25	86	104	150
	20	4,8	34	148	179	260
	25	6	60	165	200	290
	32	7,5	95	342	414	600
CH-S 14 CH14	10	4	4	9	10	22
	12	5	6	20	24	50
	16	5,5	10	30	35	75
	20	6	26	72	85	180
	25	7	44	128	150	320
	32	7,6	68	240	282	600
	40	8	84	300	353	750
	50	9	200	720	846	1.800
CH-S 22 CH22	20	5,6	23	104	122	260
	25	5,6	37	164	193	410
	32	7	55	242	284	605
	40	8,5	68	300	353	750
	50	9,5	155	640	752	1.600
	63	11	280	1.232	1.448	3.080
	80	13,5	600	2.640	3.102	6.600
	100	16	1.100	5.000	5.875	12.500

Technical data on page 105

TYPES
AQS-FRATED VOLTAGE
~690V

Technical data:

Standards:
IEC 60269-4-1Breaking capacity:
~200 kA
Rated voltage:
~690VCharacteristic:
gR

Application:

Fuse-links of system C are applied in fuse disconnectors VLC.



certificate for 700V.

Size	In (A)	Type without indicator	Code No. ETI	Operating I ² t-value (A ² s)	Power dissipation (W)	Char.	Pack. (pcs.)	Weight (g)
10x38	1	AQS10 UQ/1A/690V	002645126	1,6	1	gR	10	10
	2	AQS10 UQ/2A/690V	002645127	8	1,8	gR	10	10
	4	AQS10 UQ/4A/690V	002645128	8	1,1	gR	10	10
	6	AQS10 UQ/6A/690V	002645129	25	1,6	gR	10	10
	8	AQS10 UQ/8A/690V	002645130	39	1,8	gR	10	10
	10	AQS10 UQ/10A/690V	002645131	66	2,1	gR	10	10
	12	AQS10 UQ/12A/690V	002645132	87	3,1	gR	10	10
	16	AQS10 UQ/16A/690V	002645133	166	4,4	gR	10	10
	20	AQS10 UQ/20A/690V	002645134	280	5,8	gR	10	10
	25	AQS10 UQ/25A/690V	002645135	580	6,8	gR	10	10
	30	AQS10 UQ/30A/690V	002645136	1.010	8,2	gR	10	10
14x51	6	AQS14 UQ/6A/690V	002645137	18	1,3	gR	10	22,5
	8	AQS14 UQ/8A/690V	002645138	28	1,7	gR	10	22,5
	10	AQS14 UQ/10A/690V	002645139	39	2,6	gR	10	22,5
	12	AQS14 UQ/12A/690V	002645140	75	3,1	gR	10	22,5
	16	AQS14 UQ/16A/690V	002645141	115	4,7	gR	10	22,5
	20	AQS14 UQ/20A/690V	002645142	190	6	gR	10	22,5
	25	AQS14 UQ/25A/690V	002645143	340	7,6	gR	10	22,5
	32	AQS14 UQ/32A/690V	002645144	620	9,5	gR	10	22,5
	40	AQS14 UQ/40A/690V	002645145	1.050	10	gR	10	22,5
22x58	50	AQS14 UQ/50A/690V	002645146	1.900	12	gR	10	22,5
	20	AQS22 UQ/20A/690V	002645147	91	6	gR	10	45
	25	AQS22 UQ/25A/690V	002645148	140	7,2	gR	10	45
	32	AQS22 UQ/32A/690V	002645149	315	9,6	gR	10	45
	40	AQS22 UQ/40A/690V	002645150	610	12	gR	10	45
	50	AQS22 UQ/50A/690V	002645151	910	15	gR	10	45
	63	AQS22 UQ/63A/690V	002645152	2.260	16	gR	10	45
	80	AQS22 UQ/80A/690V	002645153	4.400	18	gR	10	45
	100	AQS22 UQ/100A/690V	002645154	8.900	19	gR	10	45

AQS10



ULTRA QUICK

remember

Key words associated to semiconductor protection:

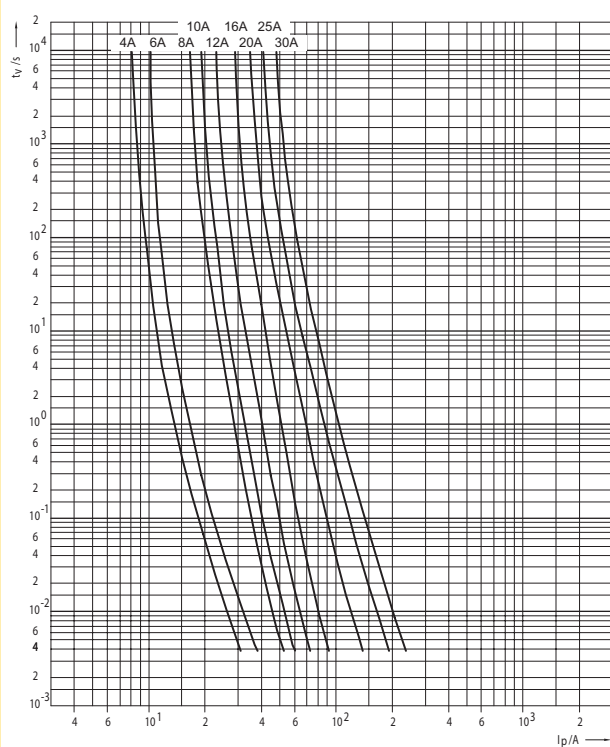
- Drives
- Softstarters
- Rectifiers
- UPS (computer, telecom)
- Power supply
- Converters
- Inverters
- Wind energy
- Solar energy
- Motors
- Pumps
- Fans
- Lift, crane, elevator
- Electrolysis
- DC power
- SCR, GTO
- Thyristor, diode, IGBT transistor

For more information visit: www.eti.si/Electrotechnical_products/Semiconductor_protection

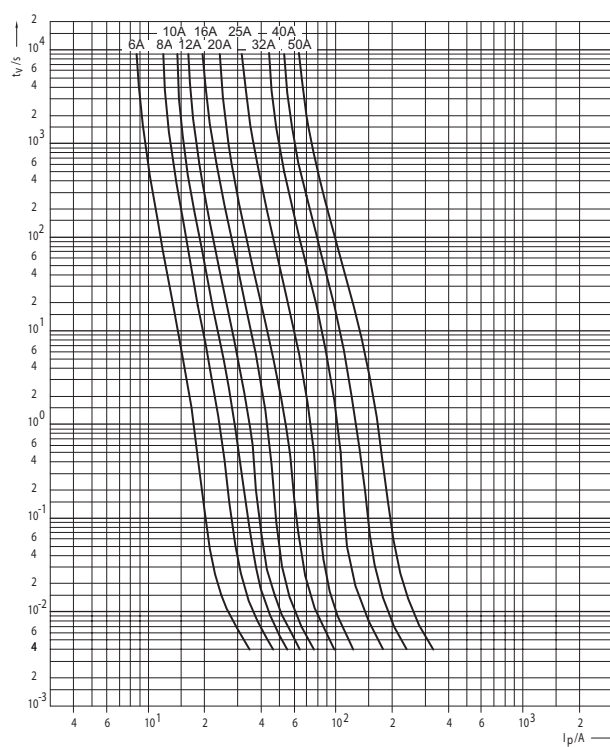
CHARACTERISTICS

SYSTEM **C**SERIES
AQS-FRATED VOLTAGE
~ 690V

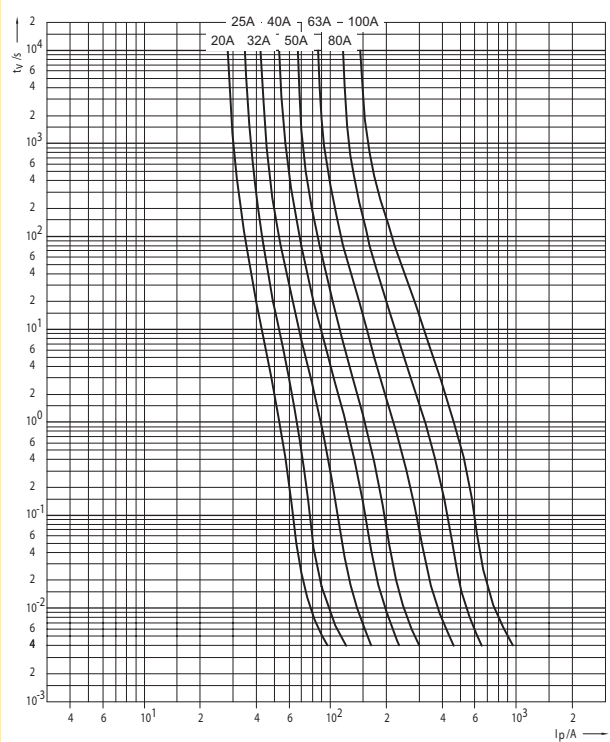
Time/current characteristics of fuse-links Ultra Quick AQS - size 10 x 38



Time/current characteristics of fuse-links Ultra Quick AQS - size 14 x 51



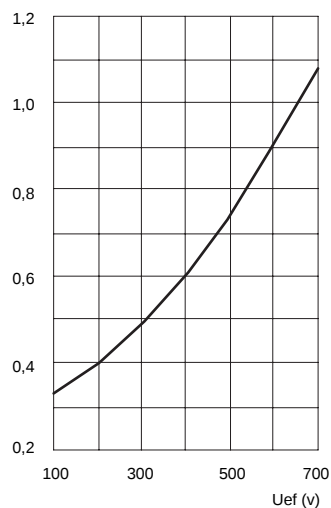
Time/current characteristics of fuse-links Ultra Quick AQS - size 22 x 58



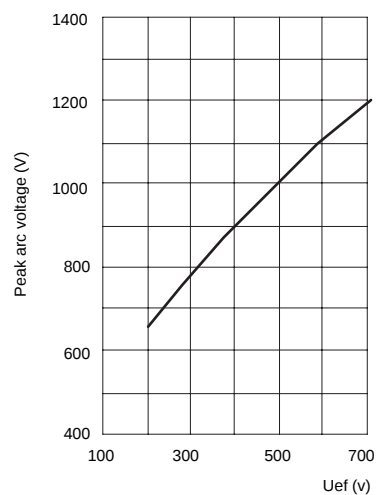
SERIES
AQS-F

RATED VOLTAGE
~ 690V

Conversion factor for total Joule integral



Maximum arc voltage occurring



Correction factor for converting the power dissipation for percentage load

Load(%)	Correction factor
10	0,005
20	0,025
30	0,063
40	0,122
50	0,204
60	0,31
70	0,442
80	0,6
90	0,785
100	1

CHARACTERISTICS

SYSTEM C

SERIES
AQS-F

RATED VOLTAGE
~ 690V

Power dissipation, pre-arcing Joule integral and Operating Joule integral for Ultra Quick

Size	I_N	Power dissipation	Pre-arcing Joule integral I^2t (1ms)	Operating Joule Integral $I^2t \sim 180V$	Operating Joule Integral $I^2t \sim 330V$	Operating Joule Integral $I^2t \sim 690V$
	A	W	A ² s	A ² s	A ² s	A ² s
AQS10	1	1	0,93	1	1	2
	2	1,8	0,64	3	4	8
	4	1,1	0,70	3	4	8
	6	1,6	2	10	12	25
	8	1,8	5	16	18	39
	10	2,1	5	26	31	66
	12	3,1	7	35	41	87
	16	4,4	10	66	78	166
	20	5,8	17	112	132	280
	25	6,8	40	232	273	580
	30	8,2	60	404	475	1.010
AQS14	6	1,3	3	7	8	18
	8	1,7	5	11	13	28
	10	2,6	8	16	18	39
	12	3,1	8	30	35	75
	16	4,7	11	46	54	115
	20	6	21	76	89	190
	25	7,6	32	136	160	340
	32	9,5	63	248	291	620
	40	10	140	420	494	1.050
AQS22	50	12	250	760	893	1.900
	20	6	21	36	43	91
	25	7,2	32	56	66	140
	32	9,6	63	126	148	315
	40	12	140	244	287	610
	50	15	210	364	428	910
	63	16	510	904	1.062	2.260
	80	18	1.000	1.760	2.068	4.400
	100	19	2.050	3.560	4.183	8.900