

SERIES
UQU-N QUICK ACTING

TYPES
M

RATED VOLTAGE
~ 690V

Technical data:

Standards:
DIN 43620
VDE 0636-201

Breaking capacity:
~ 50kA / $\approx$ 25kA
Rated voltage:
~ 690V / $\approx$ 440V

Characteristic:
gR/aR

Application:

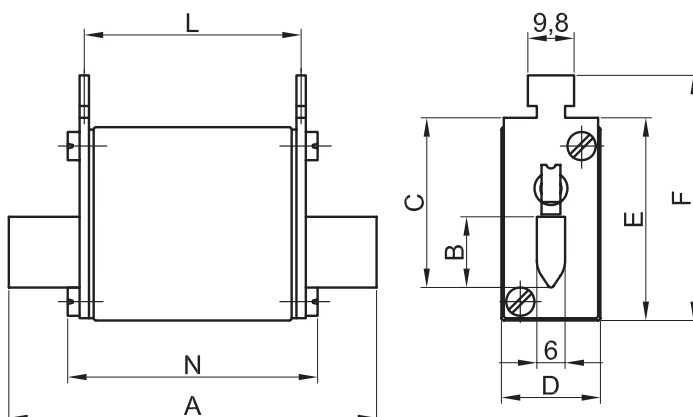
Fuse-links type M are applied in fuse base
(for example) PK.

M00UQ U-N/6A/690V



Size	In (A)	Type (visual indicator with grip for microswitch NVS 5)	Code No.	Operating I ² t-value (A ² s)	Power dissipation (W)	Char.	Packaging (pcs)	Weight (g)
00C	6	M00CUQU-N/6A/690V	004331018	19	2,8	gR	3/120	180
	10	M00CUQU-N/10A/690V	004331019	62	3,3	gR	3/120	180
	16	M00CUQU-N/16A/690V	004331020	154	4,1	gR	3/120	180
	20	M00CUQU-N/20A/690V	004331021	290	5	gR	3/120	180
	25	M00CUQU-N/25A/690V	004331022	590	5,8	gR	3/120	180
	35	M00CUQU-N/35A/690V	004331023	1.160	8	gR	3/120	180
	40	M00CUQU-N/40A/690V	004331024	1.500	11	gR	3/120	180
	50	M00CUQU-N/50A/690V	004331025	2.370	16	gR	3/120	180
	63	M00CUQU-N/63A/690V	004331026	4.650	20	gR	3/120	180
	80	M00CUQU-N/80A/690V	004331027	5.350	25	gR	3/120	180
	100	M00CUQU-N/100A/690V	004331028	10.500	32	gR	3/120	180
	125	M00CUQU-N/125A/690V	004331029	21.300	40	gR	3/120	180
00	6	M00UQU-N/6A/690V	004331201	18	2,8	gR	3/90	180
	10	M00UQU-N/10A/690V	004331202	60	3,3	gR	3/90	180
	16	M00UQU-N/16A/690V	004331203	170	4,1	gR	3/90	180
	20	M00UQU-N/20A/690V	004331204	250	5	gR	3/90	180
	25	M00UQU-N/25A/690V	004331205	460	5,8	gR	3/90	180
	35	M00UQU-N/35A/690V	004331214	1.000	8	gR	3/90	180
	40	M00UQU-N/40A/690V	004331208	1.300	11	gR	3/90	180
	50	M00UQU-N/50A/690V	004331209	1.500	16	gR	3/90	180
	63	M00UQU-N/63A/690V	004331210	3.000	20	gR	3/90	180
	80	M00UQU-N/80A/690V	004331211	5.300	25	gR	3/90	180
	100	M00UQU-N/100A/690V	004331212	9.000	32	gR	3/90	180
	125	M00UQU-N/125A/690V	004331213	16.000	40	gR	3/90	180
0	6	M0UQU-N/6A/690V	004332201	18	2,8	gR	3/45	320
	10	M0UQU-N/10A/690V	004332202	60	3,3	gR	3/45	320
	16	M0UQU-N/16A/690V	004332203	170	4,1	gR	3/45	320
	20	M0UQU-N/20A/690V	004332204	250	5	gR	3/45	320
	25	M0UQU-N/25A/690V	004332205	460	5,8	gR	3/45	320
	35	M0UQU-N/35A/690V	004332216	1.000	8	gR	3/45	320
	40	M0UQU-N/40A/690V	004332208	1.300	11	gR	3/45	320
	50	M0UQU-N/50A/690V	004332209	1.500	16	gR	3/45	320
	63	M0UQU-N/63A/690V	004332210	3.000	20	gR	3/45	320
	80	M0UQU-N/80A/690V	004332211	5.300	25	gR	3/45	320
	100	M0UQU-N/100A/690V	004332212	9.000	32	gR	3/45	320
	125	M0UQU-N/125A/690V	004332213	16.000	40	gR	3/45	320
	160	M0UQU-N/160A/690V	004332214	24.000	44	aR	3/45	320

Dimensions:



Size	A	B	C	D	E	F	L	N
00C	80	15	35	21	40	50,5	47	54
00	80	15	35	28	40	50,5	47	54
0	125	15	35	28	47	56,5	66	66

Technical data on page 62

SERIES

UQU-N QUICK ACTING

TYPES

M

RATED VOLTAGE

~690V

Technical data:

Standards:

DIN 43620**VDE 0636-201**

Breaking capacity:

~50kA/ --- 25kA

Rated voltage:

~690V/ --- 440V

Characteristic:

gR/aR

Application:

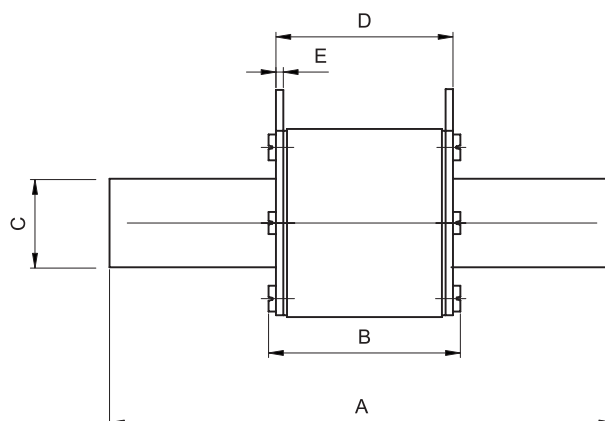
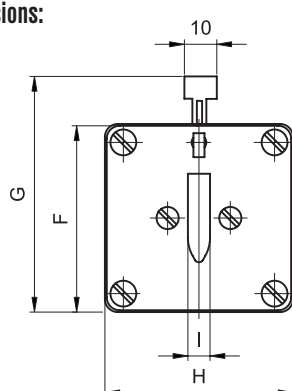
Fuse-links type M are applied in fuse base
(for example) PK.

Size	In (A)	Type (visual indicator with grip for microswitch NVS 5)	Code No.	Operating I ² t-value (A ² s)	Power dissipation (W)	Char.	Packaging (pcs)	Weight (g)
1	35	M1UQU-N/35A/690V	004333217	1.000	8	gR	3/24	450
	50	M1UQU-N/50A/690V	004333208	1.500	16	gR	3/24	450
	63	M1UQU-N/63A/690V	004333209	3.000	20	gR	3/24	450
	80	M1UQU-N/80A/690V	004333210	5.300	25	gR	3/24	450
	100	M1UQU-N/100A/690V	004333211	9.000	32	gR	3/24	450
	125	M1UQU-N/125A/690V	004333212	16.000	40	gR	3/24	450
	160	M1UQU-N/160A/690V	004333213	24.000	44	aR	3/24	450
	200	M1UQU-N/200A/690V	004333214	40.000	58	aR	3/24	450
	224	M1UQU-N/224A/690V	004333215	52.000	60	aR	3/24	450
	250	M1UQU-N/250A/690V	004333216	65.000	63	aR	3/24	450
2	80	M2UQU-N/80A/690V	004334209	5.300	25	gR	3/15	680
	100	M2UQU-N/100A/690V	004334210	9.000	32	gR	3/15	680
	125	M2UQU-N/125A/690V	004334211	16.000	40	gR	3/15	680
	160	M2UQU-N/160A/690V	004334213	24.000	44	aR	3/15	680
	200	M2UQU-N/200A/690V	004334214	40.000	58	aR	3/15	680
	250	M2UQU-N/250A/690V	004334216	60.000	63	aR	3/15	680
	280	M2UQU-N/280A/690V	004334218	100.000	75	aR	3/15	680
	300	M2UQU-N/300A/690V	004334219	140.000	85	aR	3/15	680
	315	M2UQU-N/315A/690V	004334220	175.000	95	aR	3/15	680
	355	M2UQU-N/355A/690V	004334221	220.000	100	aR	3/15	680
3	400	M2UQU-N/400A/690V	004334222	270.000	105	aR	3/15	680
	250	M3UQU-N/250A/690V	004335207	60.000	63	aR	3/12	880
	280	M3UQU-N/280A/690V	004335208	100.000	75	aR	3/12	880
	315	M3UQU-N/315A/690V	004335209	175.000	95	aR	3/12	880
	355	M3UQU-N/355A/690V	004335210	300.000	100	aR	3/12	880
	400	M3UQU-N/400A/690V	004335211	441.700	105	aR	3/12	880
	450	M3UQU-N/450A/690V	004335213	530.000	115	aR	3/12	880
	500	M3UQU-N/500A/690V	004335214	620.000	130	aR	3/12	880
	560	M3UQU-N/560A/690V	004335215	730.000	135	aR	3/12	880
	630	M3UQU-N/630A/690V	004335216	850.000	140	aR	3/12	880

M2UQU-N/80A/690V



Dimensions:



Size	A	B	C	D	E	F	G	H	I
1	135	75	20	68	2	40	61,5	46	6
2	150	75	26	68	2	48	71,5	57	6
3	150	75	36	68	2	60	81,5	69	6

SERIES
UQU QUICK ACTING

TYPES
S80mm/97mm

RATED VOLTAGE
~690V

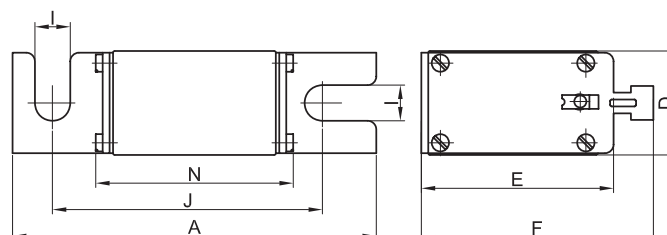
Technical data:			Application:
Standards: DIN 43653 IEC 60269-4-1	Breaking capacity: ~50kA / $\approx$ 25kA Rated voltage: ~690V / $\approx$ 440V	Characteristic: gR/aR	Fuse-links type S of size 00C, 00 and 0 are applied in fuse base US00-1/80 and mounted by screws to busbars.

S00UQU/80/6A/690V



Size	In (A)	Type (visual indicator with grip for microswitch NVS 5)	Code No.	Operating I ² t-value (A ² s)	Power dissipation (W)	Char.	Packaging (pcs)	Weight (g)
00C	6	S00CUQU/80/6A/690V	004331003	19	2,8	aR	3/120	180
	10	S00CUQU/80/10A/690V	004331004	62	3,3	aR	3/120	180
	16	S00CUQU/80/16A/690V	004331005	154	4,1	aR	3/120	180
	20	S00CUQU/80/20A/690V	004331006	290	5	aR	3/120	180
	25	S00CUQU/80/25A/690V	004331007	590	5,8	aR	3/120	180
	35	S00CUQU/80/35A/690V	004331008	1.160	8	aR	3/120	180
	40	S00CUQU/80/40A/690V	004331009	1.500	11	aR	3/120	180
	50	S00CUQU/80/50A/690V	004331010	2.370	16	aR	3/120	180
	63	S00CUQU/80/63A/690V	004331011	4.650	20	aR	3/120	180
	80	S00CUQU/80/80A/690V	004331012	5.350	25	aR	3/120	180
	100	S00CUQU/80/100A/690V	004331013	10.500	32	aR	3/120	180
	125	S00CUQU/80/125A/690V	004331014	21.300	40	aR	3/120	180
00	6	S00UQU/80/6A/690V	004331102	18	2,8	gR	3/90	180
	10	S00UQU/80/10A/690V	004331103	60	3,3	gR	3/90	180
	16	S00UQU/80/16A/690V	004331104	170	4,1	gR	3/90	180
	20	S00UQU/80/20A/690V	004331105	250	5	gR	3/90	180
	25	S00UQU/80/25A/690V	004331106	460	5,8	gR	3/90	180
	35	S00UQU/80/35A/690V	004331116	1.000	8	gR	3/90	180
	40	S00UQU/80/40A/690V	004331110	1.300	11	gR	3/90	180
	50	S00UQU/80/50A/690V	004331111	1.500	16	gR	3/90	180
	63	S00UQU/80/63A/690V	004331112	3.000	20	gR	3/90	180
	80	S00UQU/80/80A/690V	004331113	5.300	25	gR	3/90	180
	100	S00UQU/80/100A/690V	004331114	9.000	32	gR	3/90	180
	125	S00UQU/80/125A/690V	004331115	16.000	40	gR	3/90	180
0	6	S0UQU/97/6A/690V	004332101	18	2,8	gR	3/45	320
	10	S0UQU/97/10A/690V	004332102	60	3,3	gR	3/45	320
	16	S0UQU/97/16A/690V	004332103	170	4,1	gR	3/45	320
	20	S0UQU/97/20A/690V	004332104	250	5	gR	3/45	320
	25	S0UQU/97/25A/690V	004332105	460	5,8	gR	3/45	320
	35	S0UQU/97/35A/690V	004332116	1.000	8	gR	3/45	320
	40	S0UQU/97/40A/690V	004332108	1.300	11	gR	3/45	320
	50	S0UQU/97/50A/690V	004332109	1.500	16	gR	3/45	320
	63	S0UQU/97/63A/690V	004332110	3.000	20	gR	3/45	320
	80	S0UQU/97/80A/690V	004332111	5.300	25	gR	3/45	320
	100	S0UQU/97/100A/690V	004332112	9.000	32	gR	3/45	320
	125	S0UQU/97/125A/690V	004332113	16.000	40	gR	3/45	320
	160	S0UQU/97/160A/690V	004332114	24.000	44	aR	3/45	320

Dimensions:



Size	A	D	E	F	I	J	N
00C	105	21	48	58	11,5	80	54
00	105	27	48	58	11,5	80	54
0	121	27	48	58	11,5	97	69

Technical data on page 62

SERIES

UQU QUICK ACTING

TYPES

S110mm

RATED VOLTAGE

~690V

Technical data:

Standards:

DIN 43653**IEC 60269-4-1**

Breaking capacity:

~50kA / ≈ 25kA

Rated voltage:

~690V / ≈ 440V

Characteristic:

gR/aR

Application:

Fuse-links type S 110mm of size 1, 2, 3 are applied in universal fuse base US1..3-1/80-110 and mounted by screws to busbars.

Size	In (A)	Type (visual indicator with grip for microswitch NVS 5)	Code No.	Operating I ² t-value (A ² s)	Power dissipation (W)	Char.	Packaging (pcs)	Weight (g)
1	35	S1UQU/110/35A/690V	004333117	1.000	8	gR	3/24	450
	50	S1UQU/110/50A/690V	004333108	1.500	16	gR	3/24	450
	63	S1UQU/110/63A/690V	004333109	3.000	20	gR	3/24	450
	80	S1UQU/110/80A/690V	004333110	5.300	25	gR	3/24	450
	100	S1UQU/110/100A/690V	004333111	9.000	32	gR	3/24	450
	125	S1UQU/110/125A/690V	004333112	16.000	40	gR	3/24	450
	160	S1UQU/110/160A/690V	004333113	24.000	44	aR	3/24	450
	200	S1UQU/110/200A/690V	004333114	40.000	58	aR	3/24	450
	224	S1UQU/110/224A/690V	004333115	52.000	60	aR	3/24	450
	250	S1UQU/110/250A/690V	004333116	65.000	63	aR	3/24	450
2	80	S2UQU/110/80A/690V	004334109	5.300	25	gR	3/15	680
	100	S2UQU/110/100A/690V	004334110	9.000	32	gR	3/15	680
	125	S2UQU/110/125A/690V	004334111	16.000	40	gR	3/15	680
	160	S2UQU/110/160A/690V	004334112	24.000	44	aR	3/15	680
	200	S2UQU/110/200A/690V	004334113	40.000	58	aR	3/15	680
	250	S2UQU/110/250A/690V	004334115	60.000	63	aR	3/15	680
	280	S2UQU/110/280A/690V	004334116	100.000	75	aR	3/15	680
	300	S2UQU/110/300A/690V	004334121	140.000	85	aR	3/15	680
	315	S2UQU/110/315A/690V	004334117	175.000	95	aR	3/15	680
	355	S2UQU/110/355A/690V	004334118	220.000	100	aR	3/15	680
3	400	S2UQU/110/400A/690V	004334119	270.000	105	aR	3/15	680
	250	S3UQU/110/250A/690V	004335117	60.000	63	aR	3/12	880
	280	S3UQU/110/280A/690V	004335108	100.000	75	aR	3/12	880
	315	S3UQU/110/315A/690V	004335109	175.000	95	aR	3/12	880
	355	S3UQU/110/355A/690V	004335110	300.000	100	aR	3/12	880
	400	S3UQU/110/400A/690V	004335111	441.700	105	aR	3/12	880
	450	S3UQU/110/450A/690V	004335113	530.000	115	aR	3/12	880
	500	S3UQU/110/500A/690V	004335114	620.000	130	aR	3/12	880
	560	S3UQU/110/560A/690V	004335115	730.000	135	aR	3/12	880
	630	S3UQU/110/630A/690V	004335116	850.000	140	aR	3/12	880

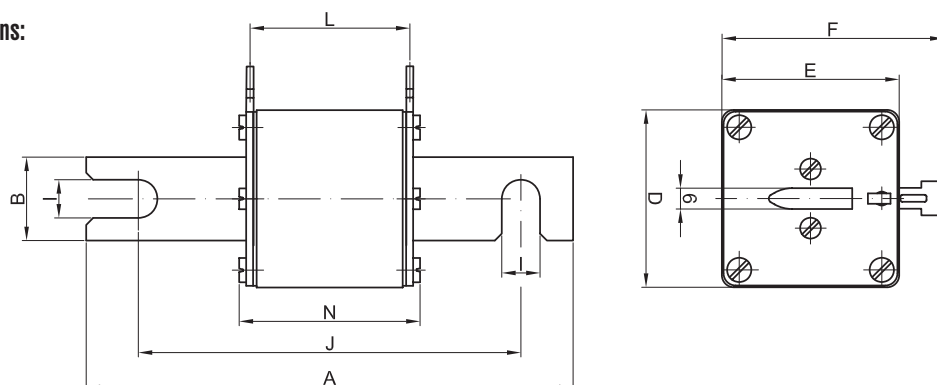
S2UQU/110/80A/690V



ULTRA QUICK

Not possible for mounting NVS5 for size 1.

Dimensions:



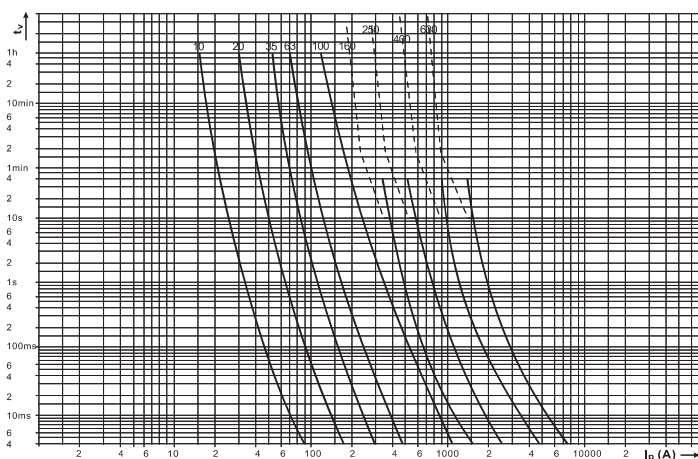
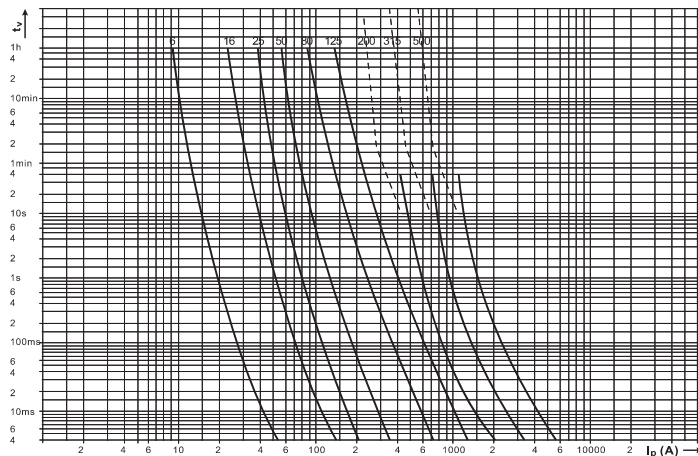
Size	A	B	D	E	F	I	J	L	N
1	140	26	46	46	57,5	11,5	110	66	75
2	140	26	57	57	71,5	11,5	110	66	75
3	140	36	69	69	81,5	11,5	110	66	75

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

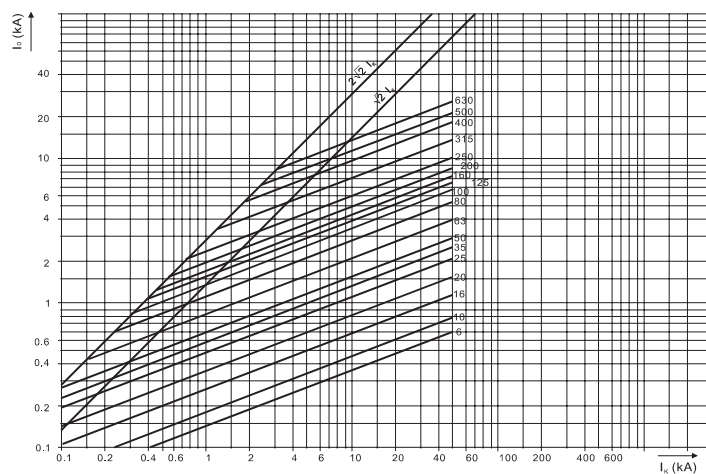
SERIES
UQ U/U-N

RATED VOLTAGE
~690V

Time/current characteristics of fuse-links Ultra Quick MUQ U-N, SUQ U

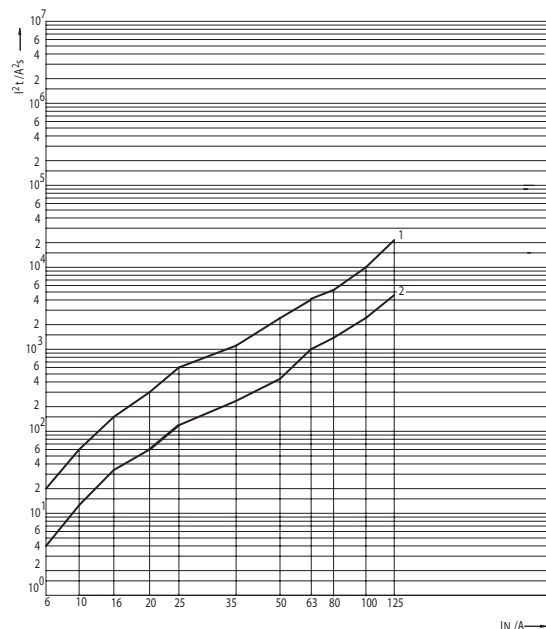
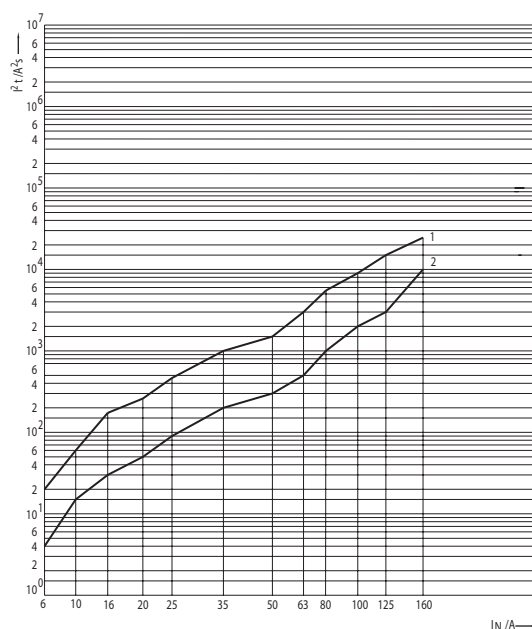
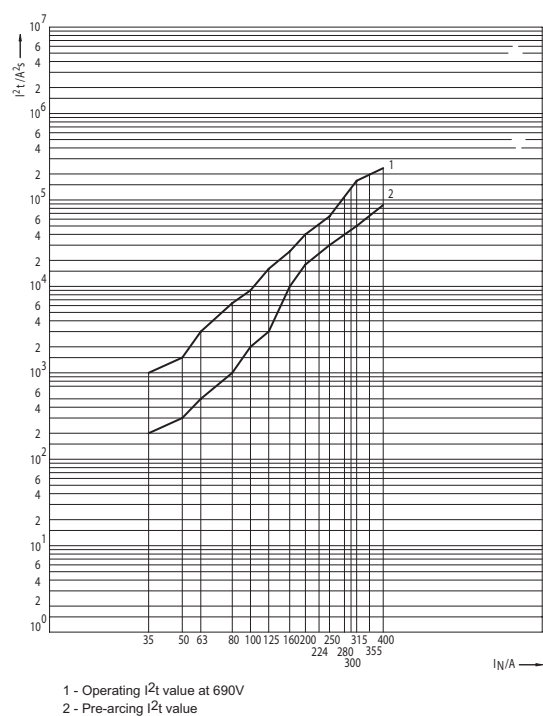
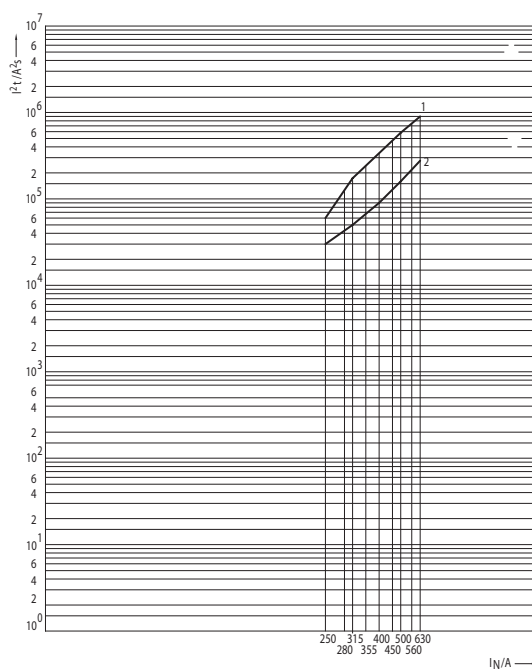


Cut-off characteristics of fuse-links Ultra Quick MUQ U-N, SUQ U



Prospective fault current →

CHARACTERISTICS

SYSTEM **NV/NH**SERIES
UQ U/U-NRATED VOLTAGE
~690VJoule Integral (I^2t) for Ultra Quick MUQ U-N, SUQ U - size 00CJoule Integral (I^2t) for Ultra Quick MUQ U-N, SUQ U - size 00 and 0Joule Integral (I^2t) for Ultra Quick MUQ U-N, SUQ U - size 1, 2Joule Integral (I^2t) for Ultra Quick MUQ U-N, SUQ U - size 3

SYSTEM **NV/NH**

SERIES
UQ U/U-N

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
MOOC, SOOC	6	2,8	4	7	10	19
	10	3,3	13	22	31	62
	16	4,1	32	54	77	154
	20	5	60	103	145	290
	25	5,8	123	209	296	590
	35	8	242	410	580	1.160
	40	11	313	530	750	1.500
	50	16	490	840	1.180	2.370
	63	20	960	1.650	2.300	4.650
	80	25	1.100	1.890	2.660	5.350
	100	32	2.180	3.690	5.200	10.500
	125	40	4.450	7.550	10.600	21.300
MOO, SOO, MO, SO	6	2,8	4	7	10	18
	10	3,3	13	20	35	60
	16	4,1	32	56	90	170
	20	5	52	94	140	250
	25	5,8	85	160	240	460
	35	8	190	310	500	1.000
	40	11	247	403	650	1.300
	50	16	290	520	760	1.500
	63	20	500	750	1.050	3.000
	80	25	1.000	1.550	2.200	5.300
	100	32	2.000	2.800	3.900	9.000
	125	40	3.100	4.300	6.000	16.000
	160	44	10.000	12.000	18.000	24.000
M1, S1	35	8	190	300	500	1.000
	50	16	290	520	750	1.500
	63	20	500	750	1.050	3.000
	80	25	1.000	1.500	2.200	5.300
	100	32	2.000	2.800	3.900	9.000
	125	40	3.100	4.300	6.000	16.000
	160	44	10.000	12.000	18.000	24.000
	200	58	17.000	22.000	31.000	40.000
	224	60	23.000	29.000	38.000	52.000
M2, S2	250	63	29.000	37.000	44.500	65.000
	80	25	1.000	1.500	2.200	5.300
	100	32	2.000	2.800	3.900	9.000
	125	40	3.100	4.300	6.000	16.000
	160	44	10.000	12.000	18.000	24.000
	200	58	17.000	22.000	31.000	40.000
	250	63	31.000	35.500	47.600	60.000
	280	75	51.600	59.100	79.300	100.000
	300	85	45.000	50.000	65.000	140.000
	315	95	48.000	55.000	75.000	175.000
	355	100	60.300	69.100	94.200	220.000
M3, S3	400	105	85.000	101.000	140.000	270.000
	250	63	31.000	35.000	47.000	60.000
	280	75	51.600	59.100	79.300	100.000
	315	95	48.000	55.000	75.000	175.000
	355	100	60.300	69.100	94.200	300.000
	400	105	90.000	115.000	160.000	441.700
	450	115	136.000	170.000	256.000	530.000
	500	130	160.000	200.000	300.000	620.000
	560	135	231.000	300.000	395.000	730.000
	630	140	270.000	348.000	460.000	850.000

SERIES
UQ1 VERY QUICK ACTING

TYPES
M

RATED VOLTAGE
~ 690V

Technical data:

Standards:
DIN 43620
VDE 0636-201

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

Characteristic:
aR

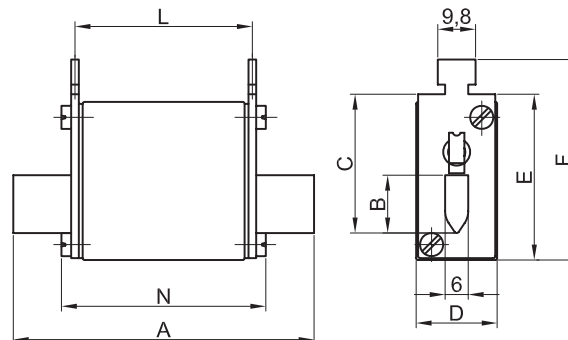
Application:

Fuse-links type M are applied in fuse base (for example) PK.

M00CUQ1/50A/690V



Size	In (A)	Type (visual indicator with grip for microswitch NVS 5)	Code No.	Operating I ² t-value (A ² s)	Power dissipation (W)	Char.	Packaging (pcs)	Weight (g)
00C	10	M00CUQ1/10A/690V	004341204	80	5,5	aR	3/60	150
	16	M00CUQ1/16A/690V	004341205	140	6	aR	3/60	150
	20	M00CUQ1/20A/690V	004341206	230	7	aR	3/60	150
	25	M00CUQ1/25A/690V	004341207	400	8	aR	3/60	150
	32	M00CUQ1/32A/690V	004341208	650	9	aR	3/60	150
	35	M00CUQ1/35A/690V	004341209	835	10	aR	3/60	150
	40	M00CUQ1/40A/690V	004341210	1.030	11	aR	3/60	150
	50	M00CUQ1/50A/690V	004341211	1.820	12	aR	3/60	150
	63	M00CUQ1/63A/690V	004341212	2.680	14,2	aR	3/60	150
	80	M00CUQ1/80A/690V	004341213	5.550	20,2	aR	3/60	150
	100	M00CUQ1/100A/690V	004341214	8.350	23,4	aR	3/60	150
	125	M00CUQ1/125A/690V	004341215	11.800	28	aR	3/60	150
	160	M00CUQ1/160A/690V	004341216	19.300	35	aR	3/60	150

Dimensions:

Size	A	B	C	D	E	F	L	N
00C	78	15	35	21	42	52	46	53

remember

Motor drives: soft starters



Soft starter for 3phase AC motor (Bucket wheel excavator (ROTO-bager))

Technical data on page 65

SERIES

UQ1 VERY QUICK ACTING

TYPES

M

RATED VOLTAGE

~690V

Technical data:

Standards:

DIN 43620**VDE 0636-201**

Breaking capacity:

~200kA

Rated voltage:

~690V

Characteristic:

aR

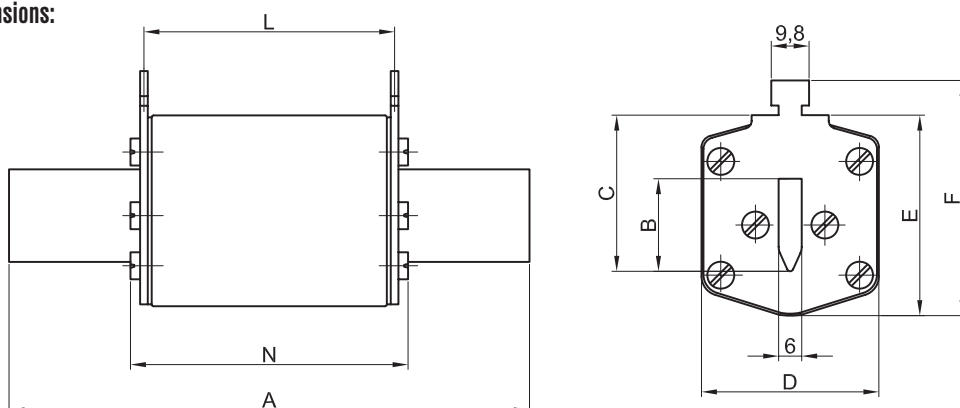
Application:

Fuse-links type M are applied in fuse base (for example PK).

Size	In (A)	Type (visual indicator with grip for microswitch NVS 5)	Code No.	Operating I ² t-value (A ² s)	Power dissipation (W)	Char.	Packaging (pcs)	Weight (g)
1	32	M1UQ1/32A/690V	004343208	650	7,3	aR	3	500
	40	M1UQ1/40A/690V	004343210	1.030	8,4	aR	3	500
	50	M1UQ1/50A/690V	004343211	1.820	10,6	aR	3	500
	63	M1UQ1/63A/690V	004343212	2.680	13	aR	3	500
	80	M1UQ1/80A/690V	004343213	5.550	15,2	aR	3	500
	100	M1UQ1/100A/690V	004343214	8.350	19,3	aR	3	500
	125	M1UQ1/125A/690V	004343215	11.800	22,3	aR	3	500
	160	M1UQ1/160A/690V	004343216	19.300	27,8	aR	3	500
	200	M1UQ1/200A/690V	004343217	27.800	36	aR	3	500
2	250	M1UQ1/250A/690V	004343219	45.000	41,4	aR	3	500
	160	M2UQ1/160A/690V	004344216	19.300	26,7	aR	3	650
	200	M2UQ1/200A/690V	004344217	27.800	31,3	aR	3	650
	250	M2UQ1/250A/690V	004344219	45.000	39,8	aR	3	650
	315	M2UQ1/315A/690V	004344221	85.600	42,8	aR	3	650
3	400	M2UQ1/400A/690V	004344223	160.000	80,2	aR	3	650
	315	M3UQ1/315A/690V	004345221	85.600	39,8	aR	3	850
	400	M3UQ1/400A/690V	004345223	160.000	50,6	aR	3	850
	500	M3UQ1/500A/690V	004345226	257.000	61,8	aR	3	850
	630	M3UQ1/630A/690V	004345228	407.000	78,6	aR	3	850

Note: for size 1,2 -modify hand of NVS5

Dimensions:



Size	A	B	C	D	E	F	L	N
1	135	24	40	46	52	62	65	72
2	150	30	48	54	61	71	65	72
3	150	37	60	64	74	84	65	72

M2UQ1/400A/690V



ULTRA QUICK

SERIES UQ1 VERY QUICK ACTING	TYPES S80mm	RATED VOLTAGE ~ 690V
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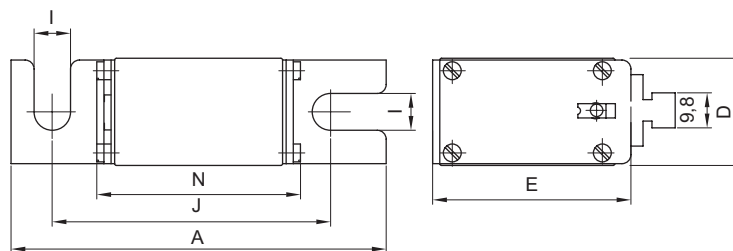
Technical data:			Application:
Standards: DIN 43653 IEC 60269-4-1	Breaking capacity: ~ 200kA Rated voltage: ~ 690V	Characteristic: aR	Fuse-links type S of size 00C and 00 are applied in fuse base US00-1/80 and mounted by screws to busbars.

S00CUQ1/80/50A/690V



Size	In (A)	Type (visual indicator with grip for microswitch NVS 5)	Code No.	Operating I ² t-value (A ² s)	Power dissipation (W)	Char.	Packaging (pcs)	Weight (g)
00C	10	S00CUQ1/80/10A/690V	004341104	80	5,5	aR	3	150
	16	S00CUQ1/80/16A/690V	004341105	140	6	aR	3	150
	20	S00CUQ1/80/20A/690V	004341106	230	7	aR	3	150
	25	S00CUQ1/80/25A/690V	004341107	400	8	aR	3	150
	32	S00CUQ1/80/32A/690V	004341108	650	9	aR	3	150
	35	S00CUQ1/80/35A/690V	004341109	835	10	aR	3	150
	40	S00CUQ1/80/40A/690V	004341110	1.030	11	aR	3	150
	50	S00CUQ1/80/50A/690V	004341111	1.820	12	aR	3	150
	63	S00CUQ1/80/63A/690V	004341112	2.680	14,2	aR	3	150
	80	S00CUQ1/80/80A/690V	004341113	5.550	20,2	aR	3	150
	100	S00CUQ1/80/100A/690V	004341114	8.350	23,4	aR	3	150
	125	S00CUQ1/80/125A/690V	004341115	11.800	28	aR	3	150
	160	S00CUQ1/80/160A/690V	004341116	19.300	35	aR	3	150
00	200	S00UQ1/80/200A/690V	004341117	27.800	40	aR	3	150
	250	S00UQ1/80/250A/690V	004341119	45.000	49,7	aR	3	150
	315	S00UQ1/80/315A/690V	004341121	85.600	59,1	aR	3	150
	350	S00UQ1/80/350A/690V	004341122	118.000	65,4	aR	3	150
	400*	S00UQ1/80/400A/690V	004341123	160.000	80	aR	3	150

Dimensions:



Size	A	D	E	I	J	N
00C	101	21	40	8,5	78	54
00	105	30	51	10,3	78	56

remember

Motor drives: DC drives



DC drives for DC motor (cable railway)

Technical data on page 65

SERIES

UQ1 VERY QUICK ACTING

TYPES

S80mm

RATED VOLTAGE

~690V

Technical data:

Standards:

DIN 43653**IEC 60269-4-1**

Breaking capacity:

~200kA

Rated voltage:

~690V

Characteristic:

aR

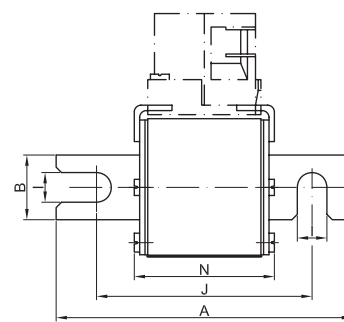
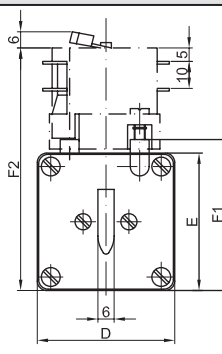
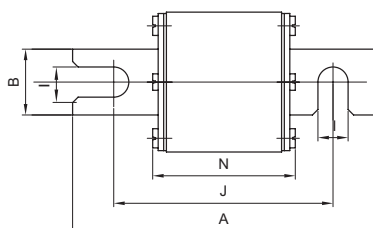
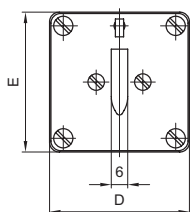
Application:

Fuse-links type S 80mm of size 1, 2, 3 are applied in universal fuse base US1..3-1/80-110 and mounted by screws to busbars.

Size	Type with In (A) visual indicator	Code No.	Operating I ² t-value (A ² s)	Power dissipation (W)	Type with centre trip indicator for microswitch MK	Code No.	Char.	Pack. (pcs)	Weight (g)
1	32 S1UQ1/80/32A/690V	004343108	650	7,3	S1MUQ1/80/32A/690V	004343708	aR	1	500
	35 S1UQ1/80/35A/690V	004343109	835	7,7	S1MUQ1/80/35A/690V	004343709	aR	1	500
	40 S1UQ1/80/40A/690V	004343110	1.030	8,4	S1MUQ1/80/40A/690V	004343710	aR	1	500
	50 S1UQ1/80/50A/690V	004343111	1.820	10,6	S1MUQ1/80/50A/690V	004343711	aR	1	500
	63 S1UQ1/80/63A/690V	004343112	2.680	13	S1MUQ1/80/63A/690V	004343712	aR	1	500
	80 S1UQ1/80/80A/690V	004343113	5.550	15,2	S1MUQ1/80/80A/690V	004343713	aR	1	500
	100 S1UQ1/80/100A/690V	004343114	8.350	19,3	S1MUQ1/80/100A/690V	004343714	aR	1	500
	125 S1UQ1/80/125A/690V	004343115	11.800	22,3	S1MUQ1/80/125A/690V	004343715	aR	1	500
	160 S1UQ1/80/160A/690V	004343116	19.300	27,8	S1MUQ1/80/160A/690V	004343716	aR	1	500
	200 S1UQ1/80/200A/690V	004343117	27.800	36	S1MUQ1/80/200A/690V	004343717	aR	1	500
	250 S1UQ1/80/250A/690V	004343119	45.000	41,4	S1MUQ1/80/250A/690V	004343719	aR	1	500
	315 S1UQ1/80/315A/690V	004343121	85.600	45,6	S1MUQ1/80/315A/690V	004343721	aR	1	500
2	350 S1UQ1/80/350A/690V	004343122	118.000	48,4	S1MUQ1/80/350A/690V	004343722	aR	1	500
	400 S1UQ1/80/400A/690V	004343123	160.000	53,7	S1MUQ1/80/400A/690V	004343723	aR	1	500
	160 S2UQ1/80/160A/690V	004344116	19.300	26,7	S2MUQ1/80/160A/690V	004344716	aR	1	650
	200 S2UQ1/80/200A/690V	004344117	27.800	31,3	S2MUQ1/80/200A/690V	004344717	aR	1	650
	250 S2UQ1/80/250A/690V	004344119	45.000	39,8	S2MUQ1/80/250A/690V	004344719	aR	1	650
	315 S2UQ1/80/315A/690V	004344121	85.600	42,8	S2MUQ1/80/315A/690V	004344721	aR	1	650
	350 S2UQ1/80/350A/690V	004344122	118.000	47,5	S2MUQ1/80/350A/690V	004344722	aR	1	650
	400 S2UQ1/80/400A/690V	004344123	160.000	52	S2MUQ1/80/400A/690V	004344723	aR	1	650
3	450 S2UQ1/80/450A/690V	004344125	200.000	59,6	S2MUQ1/80/450A/690V	004344725	aR	1	650
	500 S2UQ1/80/500A/690V	004344126	257.000	66,5	S2MUQ1/80/500A/690V	004344726	aR	1	650
	630 S2UQ1/80/630A/690V	004344128	407.000	83,5	S2MUQ1/80/630A/690V	004344728	aR	1	650
	315 S3UQ1/80/315A/690V	004345121	85.600	39,8	S3MUQ1/80/315A/690V	004345721	aR	1	850
	350 S3UQ1/80/350A/690V	004345122	118.000	44,9	S3MUQ1/80/350A/690V	004345722	aR	1	850
	400 S3UQ1/80/400A/690V	004345123	160.000	50,6	S3MUQ1/80/400A/690V	004345723	aR	1	850
	450 S3UQ1/80/450A/690V	004345125	200.000	57,5	S3MUQ1/80/450A/690V	004345725	aR	1	850
	500 S3UQ1/80/500A/690V	004345126	257.000	61,8	S3MUQ1/80/500A/690V	004345726	aR	1	850
	630 S3UQ1/80/630A/690V	004345128	407.000	78,6	S3MUQ1/80/630A/690V	004345728	aR	1	850
	710 S3UQ1/80/710A/690V	004345129	653.000	91,6	S3MUQ1/80/710A/690V	004345729	aR	1	850
	800 S3UQ1/80/800A/690V	004345130	835.000	104	S3MUQ1/80/800A/690V	004345730	aR	1	850
	1000 S3UQ1/80/1000A/690V	004345132	1.060.000	127	S3MUQ1/80/1000A/690V	004345732	aR	1	850
	1250* S3UQ1/80/1250A/500V	004345133	1.500.000	165,3	S3MUQ1/80/1250A/500V	004345733	aR	1	850

* 500V

Dimensions:



Size	A	B	D	E	F1	F2	I	J	N
1	110	24	51	51	56	90	11	80	52
2	110	30	60	60	65	99	11	80	52
3	110	37	75	75	80	114	11	80	52

S1UQ1/80/100A/690V



S1MUQ1/80/100A/690V



ULTRA QUICK

SERIES
UQ1 VERY QUICK ACTING

TYPES
S110mm

RATED VOLTAGE
~ 690V

Technical data:

Standards:
DIN 43653
IEC 60269-4-1

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

Characteristic:
aR

Application:

Fuse-links type S 110mm of size 1, 2, 3 are applied in universal fuse base US1.3-1/80-110 and mounted by screws to busbars.

S2UQ1/110/630A/690V



S1MUQ1/110/100A/690V

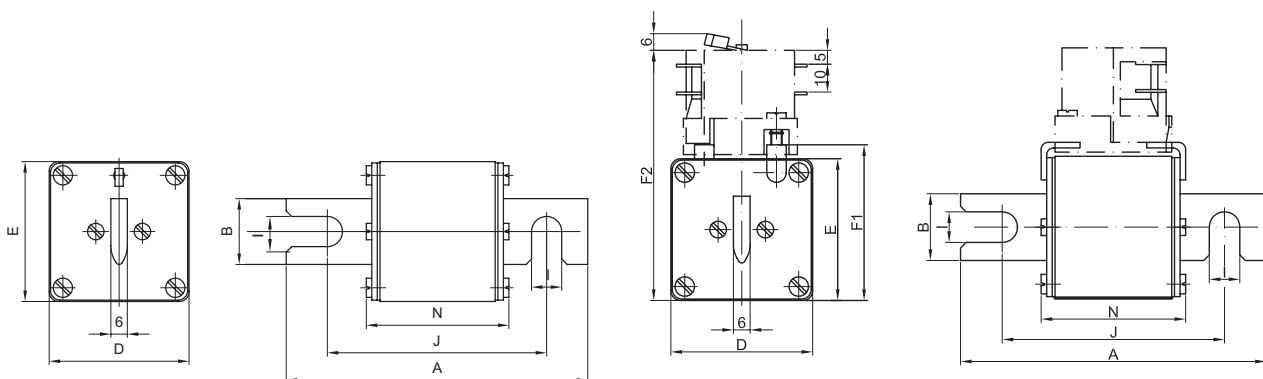


Size	Type with visual indicator	Code No.	Operating I ² t-value (A ² s)	Power dissipation (W)	Type with centre trip indicator for microswitch MK	Code No.	Char.	Pack. (pcs)	Weight (g)
1	32 S1UQ1/110/32A/690V	004353108	650	7,3	S1MUQ1/110/32A/690V	004353708	aR	1	500
	35 S1UQ1/110/35A/690V	004353109	835	7,7	S1MUQ1/110/35A/690V	004353709	aR	1	500
	40 S1UQ1/110/40A/690V	004353110	1.030	8,4	S1MUQ1/110/40A/690V	004353710	aR	1	500
	50 S1UQ1/110/50A/690V	004353111	1.820	10,6	S1MUQ1/110/50A/690V	004353711	aR	1	500
	63 S1UQ1/110/63A/690V	004353112	2.680	13	S1MUQ1/110/63A/690V	004353712	aR	1	500
	80 S1UQ1/110/80A/690V	004353113	5.550	15,2	S1MUQ1/110/80A/690V	004353713	aR	1	500
	100 S1UQ1/110/100A/690V	004353114	8.350	19,3	S1MUQ1/110/100A/690V	004353714	aR	1	500
	125 S1UQ1/110/125A/690V	004353115	11.800	22,3	S1MUQ1/110/125A/690V	004353715	aR	1	500
	160 S1UQ1/110/160A/690V	004353116	19.300	27,8	S1MUQ1/110/160A/690V	004353716	aR	1	500
	200 S1UQ1/110/200A/690V	004353117	27.800	36	S1MUQ1/110/200A/690V	004353717	aR	1	500
	250 S1UQ1/110/250A/690V	004353119	45.000	41,4	S1MUQ1/110/250A/690V	004353719	aR	1	500
	315 S1UQ1/110/315A/690V	004353121	85.600	45,6	S1MUQ1/110/315A/690V	004353721	aR	1	500
2	350 S1UQ1/110/350A/690V	004353122	118.000	48,4	S1MUQ1/110/350A/690V	004353722	aR	1	500
	400 S1UQ1/110/400A/690V	004353123	160.000	53,7	S1MUQ1/110/400A/690V	004353723	aR	1	500
	160 S2UQ1/110/160A/690V	004354116	19.300	26,7	S2MUQ1/110/160A/690V	004354716	aR	1	650
	200 S2UQ1/110/200A/690V	004354117	27.800	31,3	S2MUQ1/110/200A/690V	004354717	aR	1	650
	250 S2UQ1/110/250A/690V	004354119	45.000	39,8	S2MUQ1/110/250A/690V	004354719	aR	1	650
	315 S2UQ1/110/315A/690V	004354121	85.600	42,8	S2MUQ1/110/315A/690V	004354721	aR	1	650
	350 S2UQ1/110/350A/690V	004354122	118.000	47,5	S2MUQ1/110/350A/690V	004354722	aR	1	650
	400 S2UQ1/110/400A/690V	004354123	160.000	52	S2MUQ1/110/400A/690V	004354723	aR	1	650
	450 S2UQ1/110/450A/690V	004354125	200.000	59,6	S2MUQ1/110/450A/690V	004354725	aR	1	650
	500 S2UQ1/110/500A/690V	004354126	257.000	66,5	S2MUQ1/110/500A/690V	004354726	aR	1	650
	630 S2UQ1/110/630A/690V	004354128	407.000	83,5	S2MUQ1/110/630A/690V	004354728	aR	1	650
	315 S3UQ1/110/315A/690V	004355121	85.600	39,8	S3MUQ1/110/315A/690V	004355721	aR	3	850
3	350 S3UQ1/110/350A/690V	004355122	118.000	44,9	S3MUQ1/110/350A/690V	004355722	aR	3	850
	400 S3UQ1/110/400A/690V	004355123	160.000	50,6	S3MUQ1/110/400A/690V	004355723	aR	3	850
	450 S3UQ1/110/450A/690V	004355125	200.000	57,5	S3MUQ1/110/450A/690V	004355725	aR	3	850
	500 S3UQ1/110/500A/690V	004355126	257.000	61,8	S3MUQ1/110/500A/690V	004355726	aR	3	850
	630 S3UQ1/110/630A/690V	004355128	407.000	78,6	S3MUQ1/110/630A/690V	004355728	aR	3	850
	710 S3UQ1/110/710A/690V	004355129	653.000	91,6	S3MUQ1/110/710A/690V	004355729	aR	3	850
	800 S3UQ1/110/800A/690V	004355130	835.000	104	S3MUQ1/110/800A/690V	004355730	aR	3	850
	1000 S3UQ1/110/1000A/690V	004355132	1.060.000	127	S3MUQ1/110/1000A/690V	004355732	aR	3	850
	1250* S3UQ1/110/1250A/500V	004355133	1.500.000	165,6	S3MUQ1/110/1250A/500V	004355733	aR	3	850

* 500V

Dimensions:

Size	A	B	D	E	F1	F2	I	J	N
1	140	24	51	51	56	90	11	110	52
2	140	30	60	60	65	99	11	110	52
3	140	37	75	75	80	114	11	110	52



Technical data on page 65

SERIES

UQ1 VERY QUICK ACTING

TYPES

G

RATED VOLTAGE

~690V

Technical data:

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

Application:

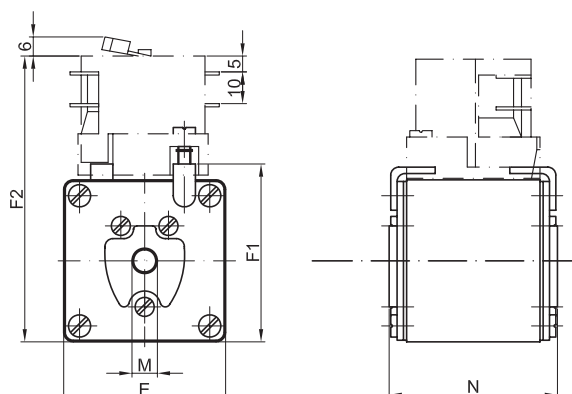
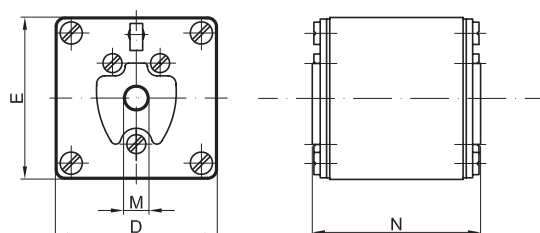
Fuse-links type G has threaded studs so fuses are mounted by special screws to busbars.

Size	Type In (A) with visual indicator	Code No.	Operating I ² t- value (A ² s)	Power dissipa- tion (W)	Type with centre trip indicator for microswitch MK	Code No.	Char.	Pack. (pcs)	Weight (g)
1	32 G1UQ1/32A/690V	004343508	650	7,3	G1MUQ1/32A/690V	004343608	aR	2	500
	35 G1UQ1/35A/690V	004343509	835	7,7	G1MUQ1/35A/690V	004343609	aR	2	500
	40 G1UQ1/40A/690V	004343510	1.030	8,4	G1MUQ1/40A/690V	004343610	aR	2	500
	50 G1UQ1/50A/690V	004343511	1.820	10,6	G1MUQ1/50A/690V	004343611	aR	2	500
	63 G1UQ1/63A/690V	004343512	2.680	13	G1MUQ1/63A/690V	004343612	aR	2	500
	80 G1UQ1/80A/690V	004343513	5.550	15,2	G1MUQ1/80A/690V	004343613	aR	2	500
	100 G1UQ1/100A/690V	004343514	8.350	19,3	G1MUQ1/100A/690V	004343614	aR	2	500
	125 G1UQ1/125A/690V	004343515	11.800	22,3	G1MUQ1/125A/690V	004343615	aR	2	500
	160 G1UQ1/160A/690V	004343516	19.300	27,8	G1MUQ1/160A/690V	004343616	aR	2	500
	200 G1UQ1/200A/690V	004343517	27.800	36	G1MUQ1/200A/690V	004343617	aR	2	500
	250 G1UQ1/250A/690V	004343519	45.000	41,4	G1MUQ1/250A/690V	004343619	aR	2	500
	315 G1UQ1/315A/690V	004343521	85.600	45,6	G1MUQ1/315A/690V	004343621	aR	2	500
2	350 G1UQ1/350A/690V	004343522	118.000	48,4	G1MUQ1/350A/690V	004343622	aR	2	500
	400 G1UQ1/400A/690V	004343523	160.000	53,7	G1MUQ1/400A/690V	004343623	aR	2	500
	160 G2UQ1/160A/690V	004344516	19.300	26,7	G2MUQ1/160A/690V	004344616	aR	2	650
	200 G2UQ1/200A/690V	004344517	27.800	31,3	G2MUQ1/200A/690V	004344617	aR	2	650
	250 G2UQ1/250A/690V	004344519	45.000	39,8	G2MUQ1/250A/690V	004344619	aR	2	650
	315 G2UQ1/315A/690V	004344521	85.600	42,8	G2MUQ1/315A/690V	004344621	aR	2	650
	350 G2UQ1/350A/690V	004344522	118.000	47,5	G2MUQ1/350A/690V	004344622	aR	2	650
	400 G2UQ1/400A/690V	004344523	160.000	52	G2MUQ1/400A/690V	004344623	aR	2	650
	450 G2UQ1/450A/690V	004344525	200.000	59,6	G2MUQ1/450A/690V	004344625	aR	2	650
	500 G2UQ1/500A/690V	004344526	257.000	66,5	G2MUQ1/500A/690V	004344626	aR	2	650
	630 G2UQ1/630A/690V	004344528	407.000	83,5	G2MUQ1/630A/690V	004344628	aR	2	650
	315 G3UQ1/315A/690V	004345521	85.600	39,8	G3MUQ1/315A/690V	004345621	aR	2	850
3	350 G3UQ1/350A/690V	004345522	118.000	44,9	G3MUQ1/350A/690V	004345622	aR	2	850
	400 G3UQ1/400A/690V	004345523	160.000	50,6	G3MUQ1/400A/690V	004345623	aR	2	850
	450 G3UQ1/450A/690V	004345525	200.000	57,5	G3MUQ1/450A/690V	004345625	aR	2	850
	500 G3UQ1/500A/690V	004345526	257.000	61,8	G3MUQ1/500A/690V	004345626	aR	2	850
	630 G3UQ1/630A/690V	004345528	407.000	78,6	G3MUQ1/630A/690V	004345628	aR	2	850
	710 G3UQ1/710A/690V	004345529	653.000	91,6	G3MUQ1/710A/690V	004345629	aR	2	850
	800 G3UQ1/800A/690V	004345530	835.000	104	G3MUQ1/800A/690V	004345630	aR	2	850
	1000 G3UQ1/1000A/690V	004345532	1.060.000	127	G3MUQ1/1000A/690V	004345632	aR	2	850
	1250* G3UQ1/1250A/500V	004345533	1.500.000	165,6	G3MUQ1/1250A/500V	004345633	aR	2	850

* 500V

Dimensions:

Size	D	E	F1	F2	M	N
1	51	51	56	90	M8	53
2	60	60	65	99	M10	53
3	75	75	80	114	M12	53



G1UQ1/400A/690V



G3MUQ1/1000A/690V



ULTRA QUICK

CHARACTERISTICS

SYSTEM **NV/NH**

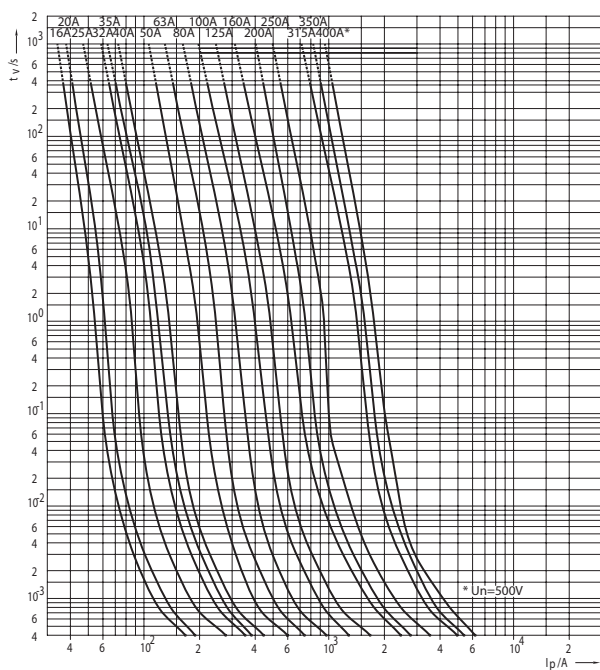
SERIES

UQ1

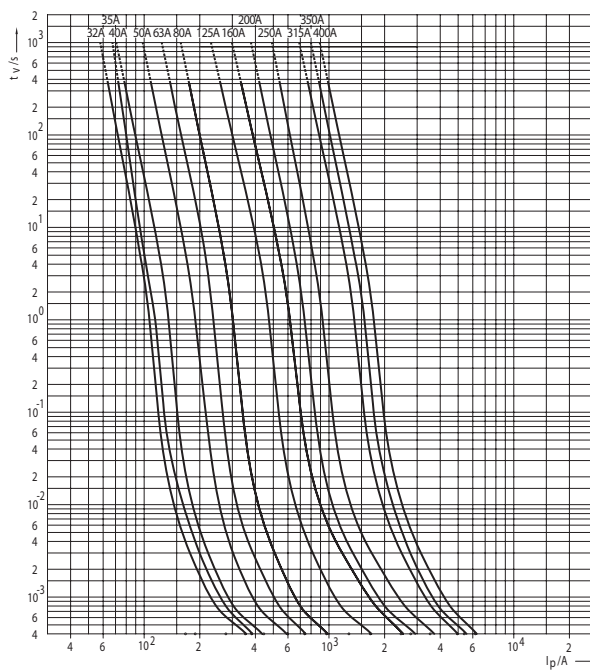
RATED VOLTAGE

~690V

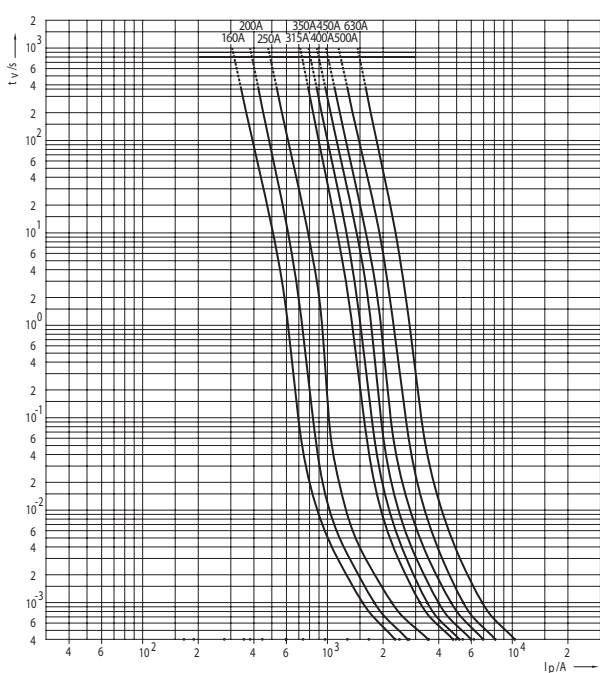
Time/current characteristics of fuse-links Ultra Quick MUQ1, SUQ1 - size 00C and 00



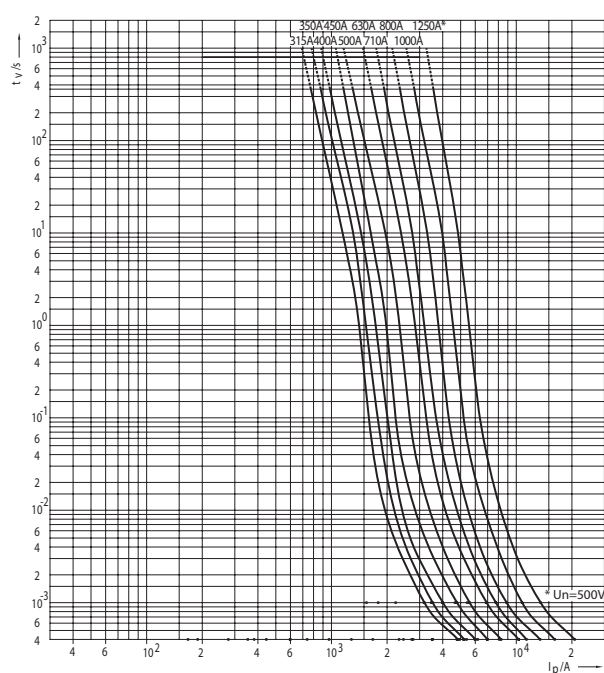
Time/current characteristics of fuse-links Ultra Quick MUQ1, SUQ1, GUQ1 - size 1



Time/current characteristics of fuse-links Ultra Quick MUQ1, SUQ1, GUQ1 - size 2



Time/current characteristics of fuse-links Ultra Quick MUQ1, SUQ1, GUQ1 - size 3



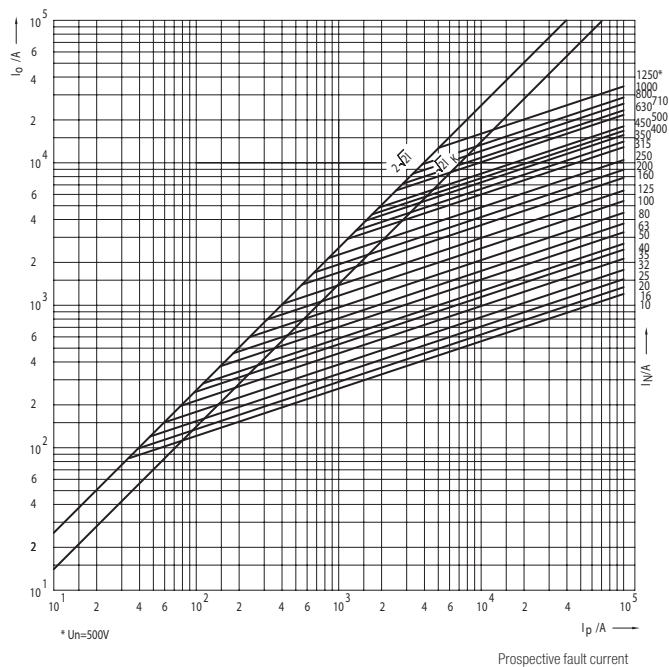
SERIES

UQ1

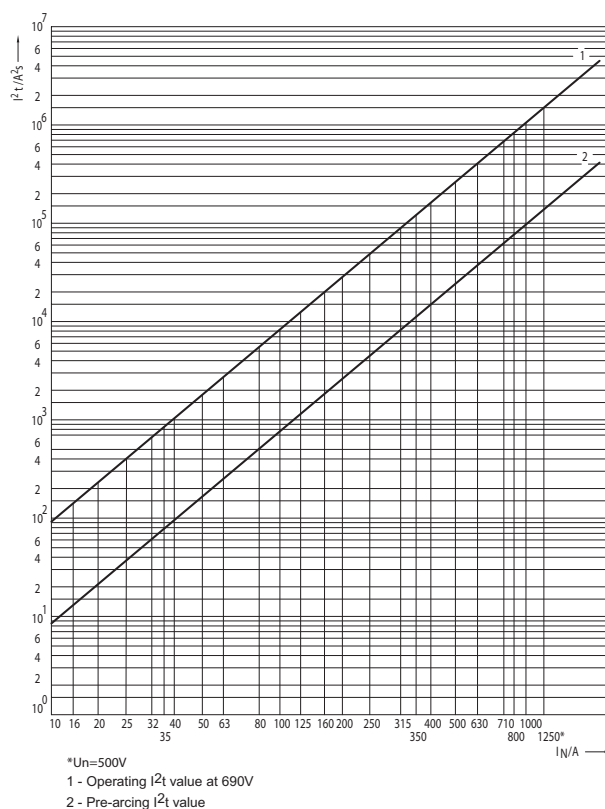
RATED VOLTAGE

~690V

Cut-off characteristics of fuse-links Ultra Quick MUQ1, SUQ1, GUQ1 - size 00C, 00, 1, 2, 3



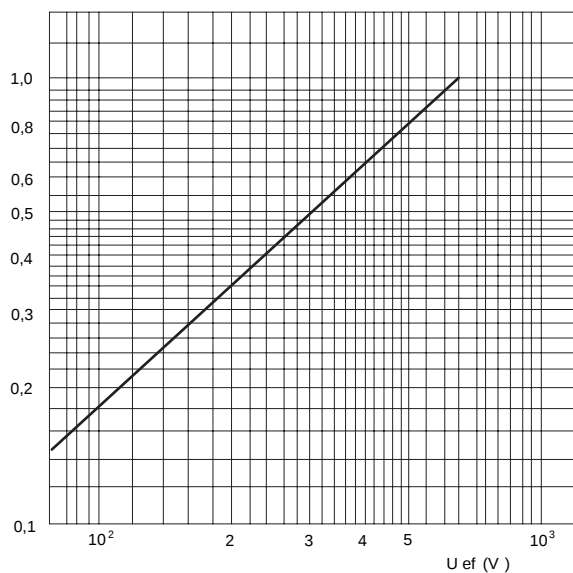
Joule Integral (I^2t) for Ultra Quick MUQ1, SUQ1, GUQ1 - size 00C, 00, 1, 2, 3



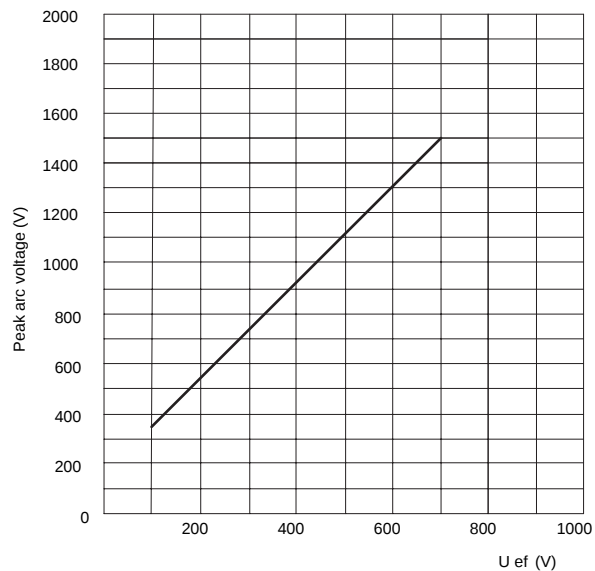
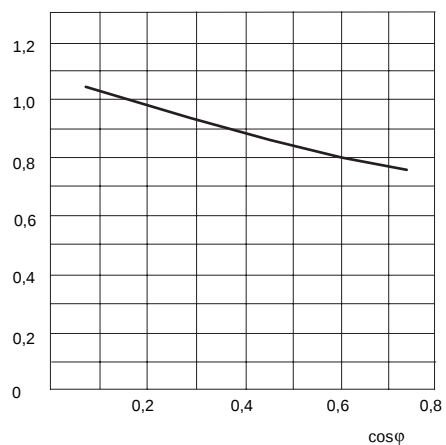
CHARACTERISTICS

SYSTEM **NV/NH**SERIES
UQ1RATED VOLTAGE
~ 690V

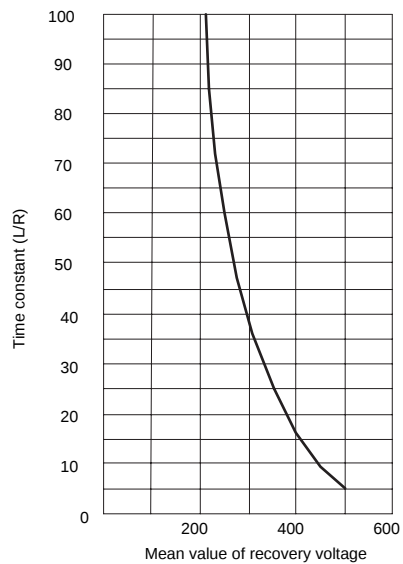
Conversion factor for total Joule integral



Maximum arc voltage occurring

Correction factor for performance factor $\cos\varphi \neq 0,15$ for operating I^2t values

DC voltage regarding L/R time constant



SERIES UQ1	RATED VOLTAGE ~ 690V
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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 **NV/NH**

SERIES

UQ1

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 $I^2t \sim 230V$	Operating Joule Integral $I^2t \sim 400V$	Operating Joule Integral $I^2t \sim 500V$	Operating Joule Integral $I^2t \sim 690V$
	A	W	A ² s	A ² s	A ² s	A ² s	A ² s
MOOC, SOOC, S00	10	5,50	8	32	48	57	80
	16	5,98	13	56	84	100	140
	20	6,99	22	92	138	170	230
	25	7,95	38	160	240	290	400
	32	8,94	61	260	390	480	650
	35	9,89	78	340	500	610	835
	40	11,06	96	415	615	760	1.030
	50	12,03	170	730	1.090	1.340	1.820
	63	14,22	250	1.080	1.600	1.970	2.680
	80	20,22	520	2.230	3.320	4.080	5.550
	100	23,38	780	3.350	5.000	6.140	8.350
	125	27,96	1.100	4.740	7.060	8.680	11.800
	160	34,97	1.800	7.760	11.500	14.200	19.300
	200	39,99	2.600	11.200	16.600	20.400	27.800
	250	49,73	4.200	18.100	27.000	33.100	45.000
	315	59,14	8.000	34.400	51.200	62.900	85.600
	350	65,39	11.000	47.400	70.600	86.800	118.000
	400*	79,97	15.000	64.300	95.700	117.600	160.000
M1, S1, G1	32	7,26	61	260	390	480	650
	35	7,71	78	340	500	610	835
	40	8,42	96	415	615	760	1.030
	50	10,62	170	730	1.090	1.340	1.820
	63	12,97	250	1.080	1.600	1.970	2.680
	80	15,23	520	2.230	3.320	4.080	5.550
	100	19,28	780	3.350	5.000	6.140	8.350
	125	22,28	1.100	4.740	7.060	8.680	11.800
	160	27,76	1.800	7.760	11.500	14.200	19.300
	200	36,02	2.600	11.200	16.600	20.400	27.800
	250	41,44	4.200	18.100	27.000	33.100	45.000
	315	45,62	8.000	34.400	51.200	62.900	85.600
	350	48,44	11.000	47.400	70.600	86.800	118.000
	400	53,76	15.000	64.300	95.700	117.600	160.000
M2, S2, G2	160	26,67	1.800	7.760	11.500	14.200	19.300
	200	31,31	2.600	11.200	16.600	20.400	27.800
	250	39,81	4.200	18.100	27.000	33.100	45.000
	315	42,79	8.000	34.400	51.200	62.900	85.600
	350	47,48	11.000	47.400	70.600	86.800	118.000
	400	80,23	15.000	64.300	95.700	117.600	160.000
	450	59,66	20.000	80.300	119.600	147.000	200.000
	500	66,47	24.000	103.300	153.700	189.000	257.000
	630	83,51	38.000	163.600	243.400	299.300	407.000
M3, S3, G3	315	39,81	8.000	34.400	51.200	62.900	85.600
	350	44,89	11.000	47.400	70.600	86.800	118.000
	400	50,62	15.000	64.300	95.700	117.600	160.000
	450	57,54	20.000	80.300	119.600	147.000	200.000
	500	61,84	24.000	103.300	153.700	189.000	257.000
	630	78,64	38.000	163.600	243.400	299.300	407.000
	710	91,57	61.000	262.000	390.000	480.000	653.000
	800	104,09	78.000	336.000	500.000	614.000	835.000
	1000	127,16	99.000	426.000	634.000	779.000	1.060.000
	1250*	165,63	140.000	603.000	897.000	1.100.000	1.500.000

*Un=500V

SERIES UQ1 VERY QUICK ACTING	TYPES M	RATED VOLTAGE ~ 1000V
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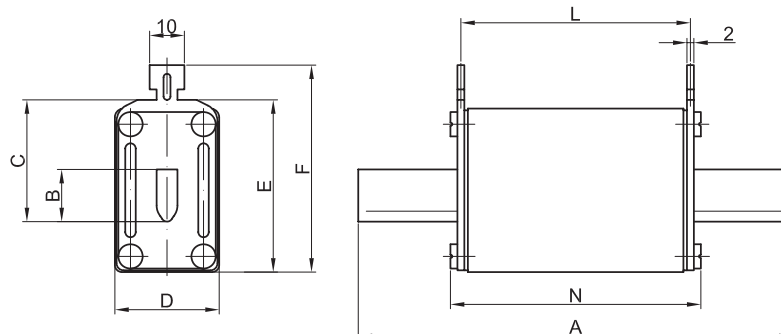
Technical data:			Application:
Standards: DIN 43620 VDE 0636-201	Breaking capacity: ~ 200kA Rated voltage: ~ 1000V	Characteristic: aR	Fuse-links type M are applied in fuse base (for example PK).

MOUQ1/100A/1000V



Size	In (A)	Type (visual indicator with grip for microswitch NVS 5)	Code No.	Operating I ² t-value (A ² s)	Power dissipation (W)	Char.	Packaging (pcs)	Weight (g)
0	32	MOUQ1/32A/1000V	004362208	480	12,5	aR	3	250
	40	MOUQ1/40A/1000V	004362210	840	14,4	aR	3	250
	50	MOUQ1/50A/1000V	004362211	1.300	19,3	aR	3	250
	63	MOUQ1/63A/1000V	004362212	2.320	22,3	aR	3	250
	80	MOUQ1/80A/1000V	004362213	3.900	28,8	aR	3	250
	100	MOUQ1/100A/1000V	004362214	8.000	31,5	aR	3	250
	125	MOUQ1/125A/1000V	004362215	18.300	34,3	aR	3	250
	160	MOUQ1/160A/1000V	004362216	35.300	40,5	aR	3	250

Dimensions:



Size	A	B	C	D	E	F	L	N
0	125	15	35	30	50	59,5	66	72

remember

Motor drives: Frequency inverter



Frequency inverter for 3 phase AC motor (lift-elevator)

Technical data on page 70

SERIES

UQ1 VERY QUICK ACTING

TYPES

S110mm

RATED VOLTAGE

~ 1000V

Technical data:

Standards:

DIN 43653

IEC 60269-4-1

Breaking capacity:

~200kA

Rated voltage:

~1000V

Characteristic:

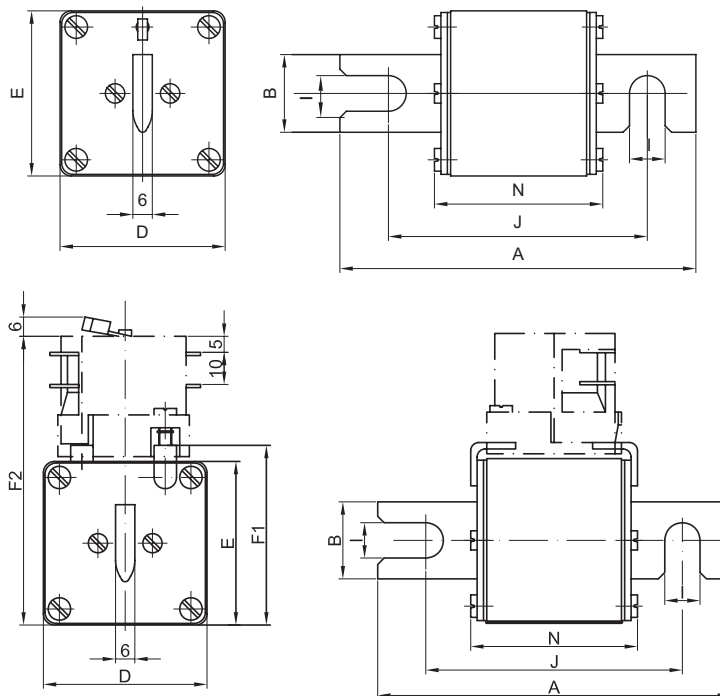
aR

Application:

Fuse-links type S 110mm of size 1, 2, 3 are applied in universal fuse base US1.3-1/80-110 and mounted by screws to busbars.

Size	In (A)	Type with visual indicator	Code No.	Operating I ² t-value (A ² s)	Power dissipation (W)	Type with centre trip indicator for microswitch MK	Code No.	Char.	Pack. (pcs)	Weight (g)
1	100	S1UQ1/110/100A/1000V	004363114	6.600	26,7	S1MUQ1/110/100A/1000V	004363714	aR	1	500
	125	S1UQ1/110/125A/1000V	004363115	12.600	32,6	S1MUQ1/110/125A/1000V	004363715	aR	1	500
	160	S1UQ1/110/160A/1000V	004363116	21.100	37,5	S1MUQ1/110/160A/1000V	004363716	aR	1	500
	200	S1UQ1/110/200A/1000V	004363117	34.500	46,7	S1MUQ1/110/200A/1000V	004363717	aR	1	500
	250	S1UQ1/110/250A/1000V	004363119	55.700	57,1	S1MUQ1/110/250A/1000V	004363719	aR	1	500
	315	S1UQ1/110/315A/1000V	004363121	106.000	63,1	S1MUQ1/110/315A/1000V	004363721	aR	1	500
2	315	S2UQ1/110/315A/1000V	004364121	106.000	67	S2MUQ1/110/315A/1000V	004364721	aR	1	650
	350	S2UQ1/110/350A/1000V	004364122	132.000	74,9	S2MUQ1/110/350A/1000V	004364722	aR	1	650
	400	S2UQ1/110/400A/1000V	004364123	193.000	84,9	S2MUQ1/110/400A/1000V	004364723	aR	1	650
	450	S2UQ1/110/450A/1000V	004364125	262.000	89,8	S2MUQ1/110/450A/1000V	004364725	aR	1	650
	500	S2UQ1/110/500A/1000V	004364126	345.000	96,1	S2MUQ1/110/500A/1000V	004364726	aR	1	650
3	500	S3UQ1/110/500A/1000V	004365126	345.000	108	S3MUQ1/110/500A/1000V	004365726	aR	3	850
	630	S3UQ1/110/630A/1000V	004365128	497.000	117	S3MUQ1/110/630A/1000V	004365728	aR	3	850
	710	S3UQ1/110/710A/1000V	004365129	795.000	136	S3MUQ1/110/710A/1000V	004365729	aR	3	850
	800	S3UQ1/110/800A/1000V	004365130	928.000	150	S3MUQ1/110/800A/1000V	004365730	aR	3	850

Dimensions:



Size	A	B	D	E	F1	F2	I	J	N
1	140	24	51	51	56	90	11	110	74
2	140	30	60	60	65	99	11	110	74
3	140	37	75	75	80	114	11	110	74

S1UQ1/110/100A/1000V



S3MUQ1/110/800A/1000V



ULTRA QUICK

SERIES UQ1 VERY QUICK ACTING	TYPES G	RATED VOLTAGE ~ 1000V
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Technical data:			Application:
Standards: IEC 60269-4-1	Breaking capacity: ~ 200kA Rated voltage: ~ 1000V	Characteristic: aR	Fuse-links type G has threaded studs so fuses are mounted by special screws to busbars.

G1UQ1/100A/1000V

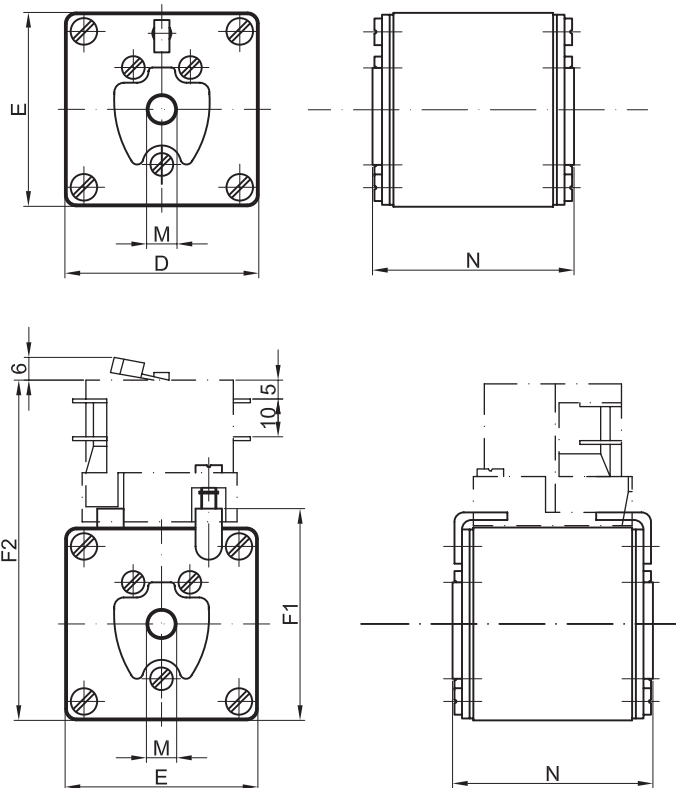


G1MUQ1/100A/1000V



Size	In (A)	Type with visual indicator	Code No.	Operating I ² t-value (A ² s)	Power dissipation (W)	Type with centre trip indicator for microswitch MK	Code No.	Char.	Pack. (pcs)	Weight (g)
1	100	G1UQ1/100A/1000V	004363514	6.600	26,7	G1MUQ1/100A/1000V	004363614	aR	1	500
	125	G1UQ1/125A/1000V	004363515	12.600	32,6	G1MUQ1/125A/1000V	004363615	aR	1	500
	160	G1UQ1/160A/1000V	004363516	21.100	37,5	G1MUQ1/160A/1000V	004363616	aR	1	500
	200	G1UQ1/200A/1000V	004363517	34.500	46,7	G1MUQ1/200A/1000V	004363617	aR	1	500
	250	G1UQ1/250A/1000V	004363519	55.700	57,1	G1MUQ1/250A/1000V	004363619	aR	1	500
	315	G1UQ1/315A/1000V	004363521	106.000	63,1	G1MUQ1/315A/1000V	004363621	aR	1	500
2	315	G2UQ1/315A/1000V	004364521	106.000	67	G2MUQ1/315A/1000V	004364621	aR	2	650
	350	G2UQ1/350A/1000V	004364522	132.000	74,9	G2MUQ1/350A/1000V	004364622	aR	2	650
	400	G2UQ1/400A/1000V	004364523	193.000	84,9	G2MUQ1/400A/1000V	004364623	aR	2	650
	450	G2UQ1/450A/1000V	004364525	262.000	89,8	G2MUQ1/450A/1000V	004364625	aR	2	650
	500	G2UQ1/500A/1000V	004364526	345.000	96,1	G2MUQ1/500A/1000V	004364626	aR	2	650
	500	G3UQ1/500A/1000V	004365526	345.000	108	G3MUQ1/500A/1000V	004365626	aR	2	850
3	630	G3UQ1/630A/1000V	004365528	497.000	117	G3MUQ1/630A/1000V	004365628	aR	2	850
	710	G3UQ1/710A/1000V	004365529	795.000	136	G3MUQ1/710A/1000V	004365629	aR	2	850
	800	G3UQ1/800A/1000V	004365530	928.000	150	G3MUQ1/800A/1000V	004365630	aR	2	850

Dimensions:

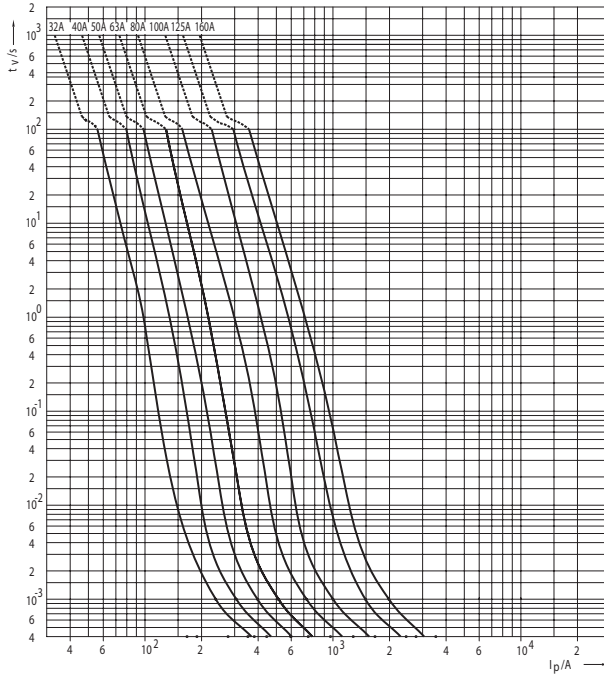


Size	D	E	F1	F2	M	N
1	51	51	56	90	M8	75
2	60	60	65	99	M10	75
3	75	75	80	114	M12	75

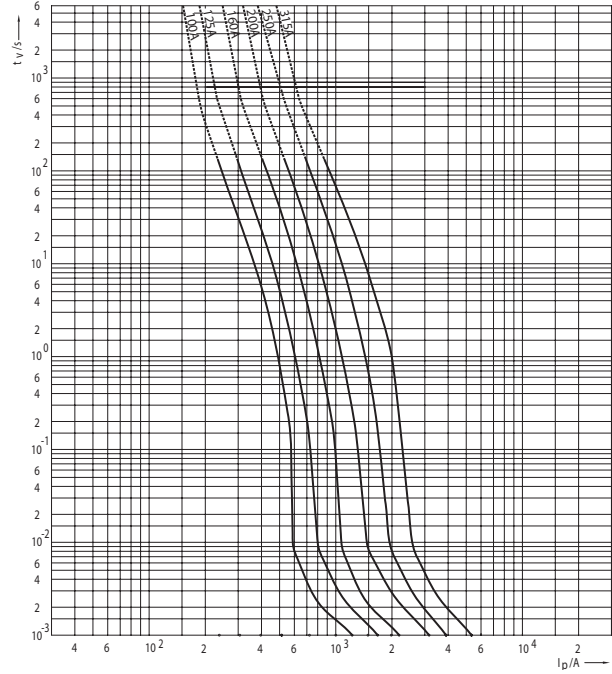
SERIES
UQ1

RATED VOLTAGE
~ 1000V

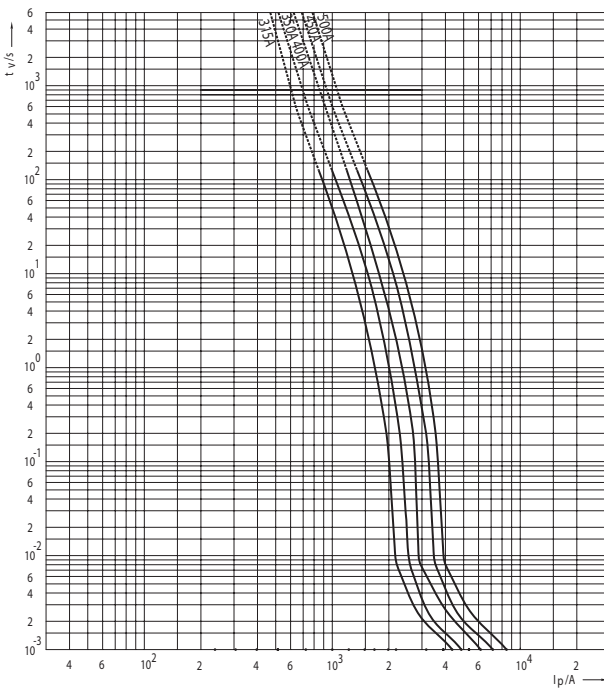
Time/current characteristics of fuse-links Ultra Quick MUQ1 - size 0



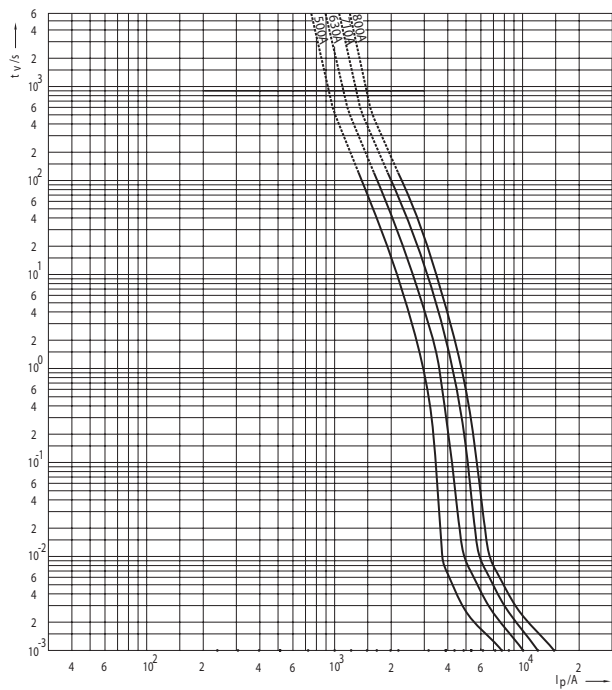
Time/current characteristics of fuse-links Ultra Quick SUQ1, GUQ1 - size 1



Time/current characteristics of fuse-links Ultra Quick SUQ1, GUQ1 - size 2



Time/current characteristics of fuse-links Ultra Quick SUQ1, GUQ1 - size 3



CHARACTERISTICS

SYSTEM **NV/NH**

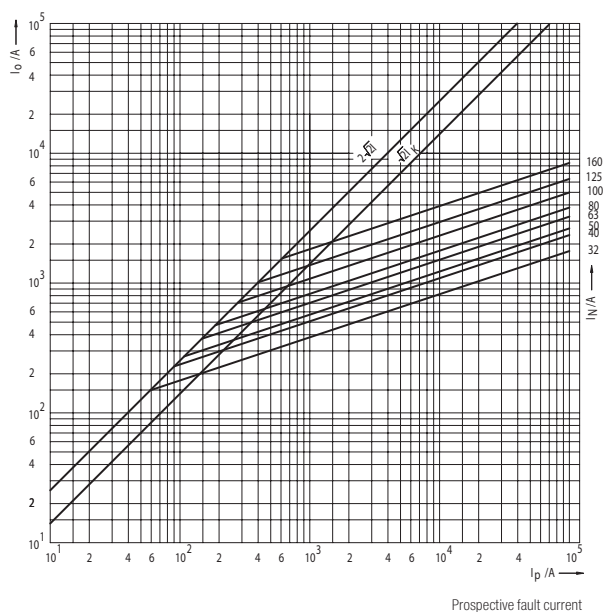
SERIES

UQ1

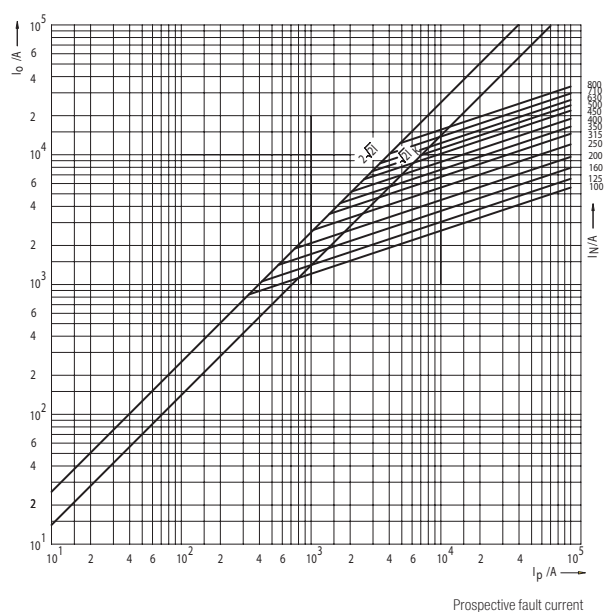
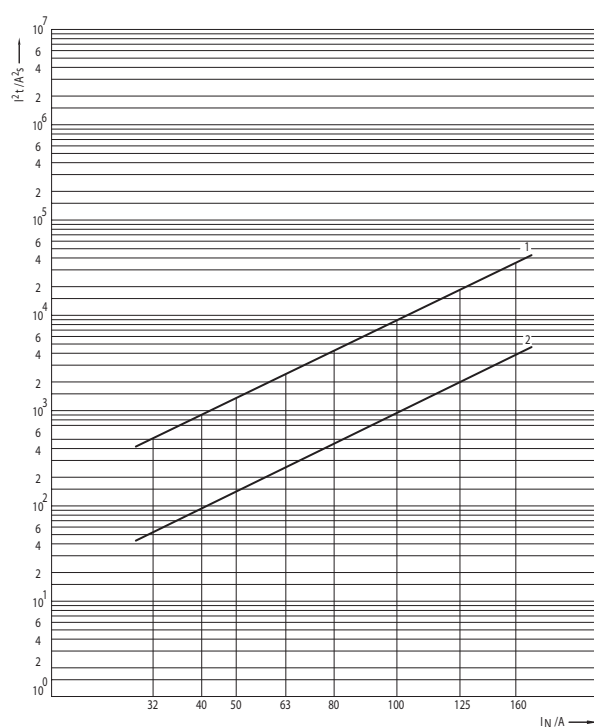
RATED VOLTAGE

~ 1000V

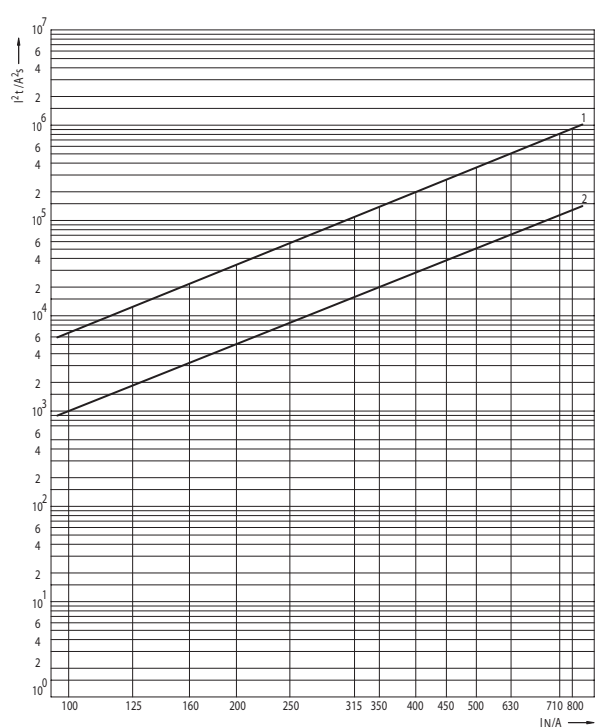
Cut-off characteristics of fuse-links Ultra Quick MUQ1 - size 0



Cut-off characteristics of fuse-links Ultra Quick SUQ1, GUQ1 - size 1, 2, 3

Joule Integral (I^2t) for Ultra Quick MUQ1 - size 0

1 - Operating I^2t value at 1000V
2 - Pre-arcing I^2t value

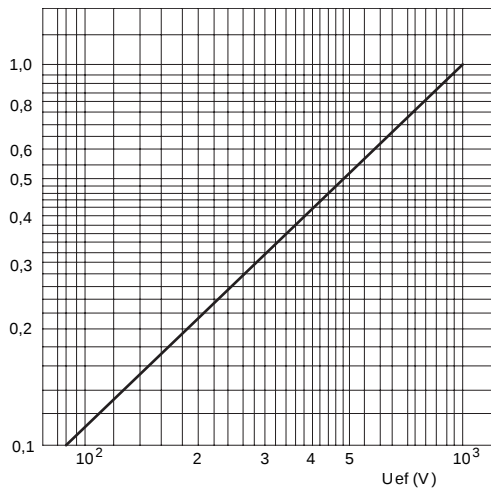
Joule Integral (I^2t) for Ultra Quick SUQ1, GUQ1 - size 1, 2, 3

1 - Operating I^2t value at 1000V
2 - Pre-arcing I^2t value

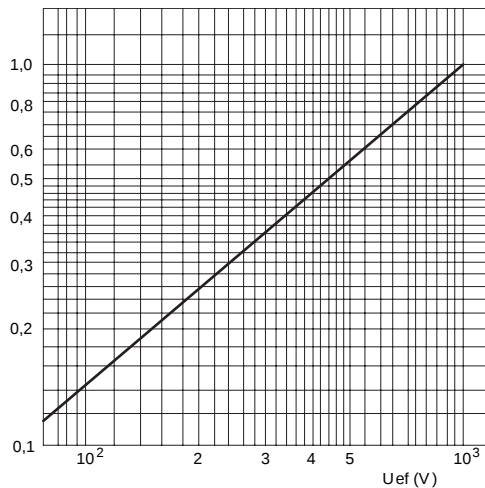
SERIES
UQ1

RATED VOLTAGE
~ 1000V

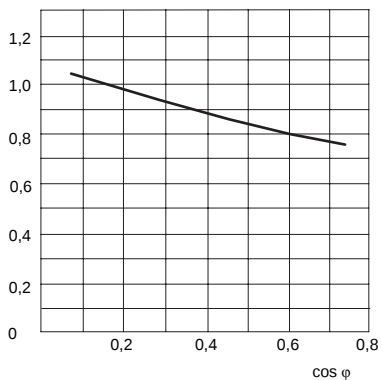
Conversion factor for total Joule integral Size 0



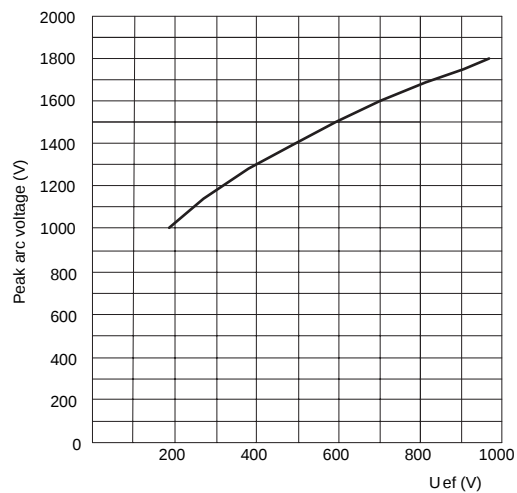
Conversion factor for total Joule integral Size 1,2,3



Correction factor for performance factor $\cos\varphi \approx 0,15$ for operating I^2t values



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 **NV/NH**

SERIES

UQ1

RATED VOLTAGE

~ 1000V

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 $I^2t \sim 230V$	Operating Joule Integral $I^2t \sim 400V$	Operating Joule Integral $I^2t \sim 500V$	Operating Joule Integral $I^2t \sim 690V$	Operating Joule Integral $I^2t \sim 1000V$
	A	W	A ² s	A ² s	A ² s	A ² s	A ² s	A ² s
M0	32	12,5	51	140	210	255	350	480
	40	14,4	90	250	370	450	610	840
	50	19,3	140	380	570	700	950	1.300
	63	22,3	250	680	1.000	1.250	1.700	2.320
	80	28,8	420	1.150	1.700	2.100	2.850	3.900
	100	31,5	860	2.350	3.500	4.300	5.850	8.000
	125	34,3	1.970	5.380	8.000	9.800	13.400	18.300
S1, G1	160	40,5	3.800	10.380	15.400	18.900	25.800	35.300
	100	26,7	1.000	1.940	2.880	3.540	4.820	6.600
	125	32,6	1.900	3.700	5.500	6.800	9.200	12.600
	160	37,5	3.200	6.200	9.200	11.300	15.400	21.100
	200	46,7	5.200	10.100	15.000	18.500	25.200	34.500
	250	57,1	8.400	16.400	24.300	29.900	40.700	55.700
S2, G2	315	63,1	16.000	31.200	46.200	56.900	77.400	106.000
	315	67,0	16.000	31.200	46.200	56.900	77.400	106.000
	350	74,9	20.000	38.800	57.500	70.800	96.400	132.000
	400	84,9	29.100	56.700	84.100	103.500	141.000	193.000
	450	89,8	39.500	77.000	114.100	140.500	191.300	262.000
S3, G3	500	96,1	52.000	101.400	150.300	185.000	252.000	345.000
	500	108	52.000	101.400	150.300	185.000	252.000	345.000
	630	117	75.000	146.000	216.000	266.000	363.000	497.000
	710	136	120.000	233.000	346.000	426.000	581.000	795.000
	800	150	140.000	273.000	404.000	498.000	678.000	928.000

Technical data on page 74

SERIES

UQ01 SUPER QUICK ACTING

TYPES

M

RATED VOLTAGE

~690V**Technical data:**

Standards:

DIN 43620**VDE 0636-201**

Breaking capacity:

~200kA

Rated voltage:

~690V

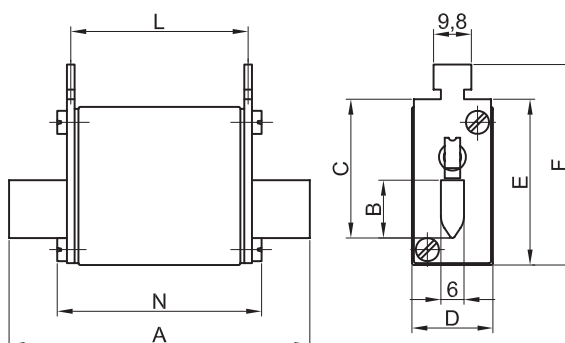
Characteristic:

aR**Application:**

Fuse-links type M are applied in fuse base (for example PK).

Size	In (A)	Type (visual indicator with grip for microswitch NVS 5)	Code No.	Operating I ² t-value (A ² s)	Power dissipation (W)	Char.	Packaging (pcs)	Weight (g)
00	10	M00UQ01/10A/690V	004371204	23	3	aR	3	140
	16	M00UQ01/16A/690V	004371205	46	4	aR	3	140
	20	M00UQ01/20A/690V	004371206	95	5	aR	3	140
	25	M00UQ01/25A/690V	004371207	165	6	aR	3	140
	32	M00UQ01/32A/690V	004371208	290	7	aR	3	140
	35	M00UQ01/35A/690V	004371209	400	8	aR	3	140
	40	M00UQ01/40A/690V	004371210	640	9	aR	3	140
	50	M00UQ01/50A/690V	004371211	1.000	10	aR	3	140
	63	M00UQ01/63A/690V	004371212	1.800	12,3	aR	3	140
	80	M00UQ01/80A/690V	004371213	2.800	16,3	aR	3	140
	100	M00UQ01/100A/690V	004371214	4.600	20	aR	3	140
	125	M00UQ01/125A/690V	004371215	8.000	26,9	aR	3	140
	160	M00UQ01/160A/690V	004371216	16.500	31,6	aR	3	140

M00UQ01/160A/690V

**Dimensions:**

Size	A	B	C	D	E	F	L	N
00	78	15	35	30	42	51	48	52

remember**Motor drives:** Servo drive

Servo drive for AC servo motor (CNC machine)

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

SERIES
UQ01 SUPER QUICK ACTING

TYPES
S80mm

RATED VOLTAGE
~ 690V

Technical data:

Standards:
DIN 43653
IEC 60269-4-1

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

Characteristic:
aR

Application:

Fuse-links type S of size 00C and 00 are applied in fuse base US00-1/80 and mounted by screws to busbars.

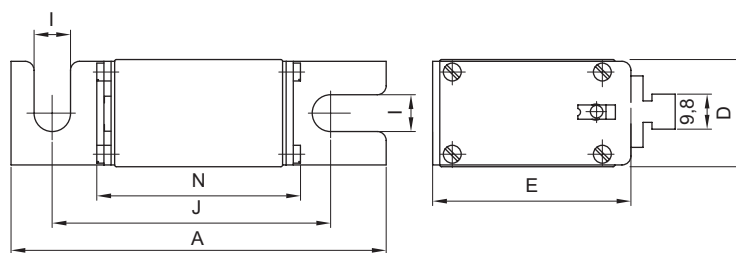
S00UQ01/80/350A/690V



Size	In (A)	Type (visual indicator with grip for microswitch NVS 5)	Code No.	Operating I ² t-value (A ² s)	Power dissipation (W)	Char.	Packaging (pcs)	Weight (g)
00C	10	S00CUQ01/80/10A/690V	004371104	23	3	aR	3	150
	16	S00CUQ01/80/16A/690V	004371105	46	4	aR	3	150
	20	S00CUQ01/80/20A/690V	004371106	95	5	aR	3	150
	25	S00CUQ01/80/25A/690V	004371107	165	6	aR	3	150
	32	S00CUQ01/80/32A/690V	004371108	290	7	aR	3	150
	35	S00CUQ01/80/35A/690V	004371109	400	8	aR	3	150
	40	S00CUQ01/80/40A/690V	004371110	640	9	aR	3	150
	50	S00CUQ01/80/50A/690V	004371111	1.000	10	aR	3	150
	63	S00CUQ01/80/63A/690V	004371112	1.800	12,3	aR	3	150
	80	S00CUQ01/80/80A/690V	004371113	2.800	16,3	aR	3	150
	100	S00CUQ01/80/100A/690V	004371114	4.600	20	aR	3	150
	125	S00CUQ01/80/125A/690V	004371115	8.000	26,9	aR	3	150
	160	S00CUQ01/80/160A/690V	004371116	16.500	31,6	aR	3	150
	200	S00CUQ01/80/200A/690V	004371117	23.000	38,7	aR	3	150
	250	S00CUQ01/80/250A/690V	004371119	46.000	43,8	aR	3	150
00	315	S00CUQ01/80/315A/690V	004371121	80.000	54	aR	3	150
	350	S00UQ01/80/350A/690V	004371122	100.000	60	aR	3	150
	400*	S00UQ01/80/400A/500V	004371123	120.000	70	aR	3	150

*500V

Dimensions:



Size	A	D	E	I	J	N
00C	101	21	40	8,5	78	54
00	105	30	51	10,3	78	56

remember

»Only fuses for semiconductor protection give us reliable protection for motor drives« said designer with more than 20 years work experience!



Technical data on page 74

SERIES

UQ01 SUPER QUICK ACTING

TYPES

S80mm

RATED VOLTAGE

~690V

Technical data:

Standards:
DIN 43653
IEC 60269-4-1Breaking capacity:
~200kA
Rated voltage:
~690VCharacteristic:
aR

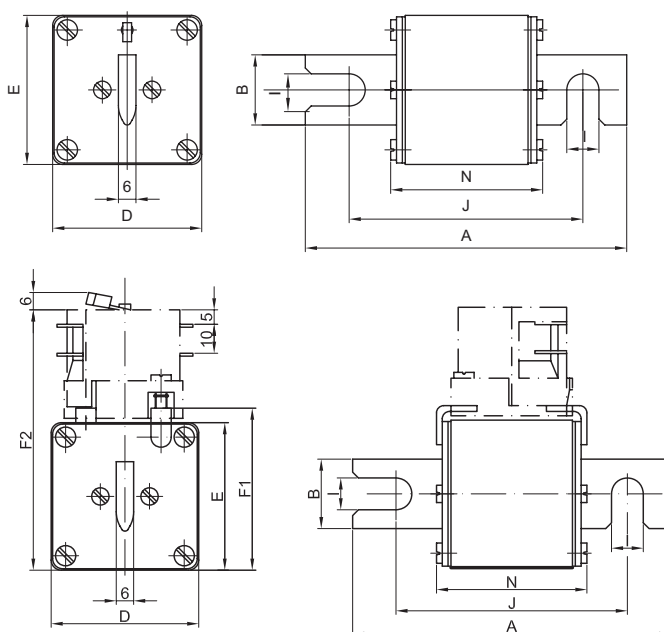
Application:

Fuse-links type S 80mm of size 1, 2, 3 are applied in universal fuse base US1..3-1/80-110 and mounted by screws to busbars.

Size	In (A)	Type with visual indicator	Code No.	Operating I ² t-value (A ² s)	Power dissipation (W)	Type with centre trip indicator for microswitch MK	Code No.	Char.	Pack. (pcs)	Weight (g)
1	80	S1UQ01/80/80A/690V	004383113	2.300	15,6	S1MUQ01/80/80A/690V	004383713	aR	1	500
	100	S1UQ01/80/100A/690V	004383114	4.600	20	S1MUQ01/80/100A/690V	004383714	aR	1	500
	125	S1UQ01/80/125A/690V	004383115	6.600	25	S1MUQ01/80/125A/690V	004383715	aR	1	500
	160	S1UQ01/80/160A/690V	004383116	10.000	32,2	S1MUQ01/80/160A/690V	004383716	aR	1	500
	200	S1UQ01/80/200A/690V	004383117	18.000	39,4	S1MUQ01/80/200A/690V	004383717	aR	1	500
	250	S1UQ01/80/250A/690V	004383119	32.000	49,4	S1MUQ01/80/250A/690V	004383719	aR	1	500
	315	S1UQ01/80/315A/690V	004383121	58.000	60	S1MUQ01/80/315A/690V	004383721	aR	1	500
	350	S1UQ01/80/350A/690V	004383122	78.000	63	S1MUQ01/80/350A/690V	004383722	aR	1	500
	400	S1UQ01/80/400A/690V	004383123	110.000	66	S1MUQ01/80/400A/690V	004383723	aR	1	500
	450	S1UQ01/80/450A/690V	004383125	155.000	72	S1MUQ01/80/450A/690V	004383725	aR	1	500
2	500	S1UQ01/80/500A/690V	004383126	200.000	73	S1MUQ01/80/500A/690V	004383726	aR	1	500
	630	S1UQ01/80/630A/690V	004383128	330.000	86	S1MUQ01/80/630A/690V	004383728	aR	1	500
	400	S2UQ01/80/400A/690V	004384123	85.000	70	S2MUQ01/80/400A/690V	004384723	aR	1	650
	450	S2UQ01/80/450A/690V	004384125	125.000	76	S2MUQ01/80/450A/690V	004384725	aR	1	650
	500	S2UQ01/80/500A/690V	004384126	165.000	80	S2MUQ01/80/500A/690V	004384726	aR	1	650
3	630	S2UQ01/80/630A/690V	004384128	310.000	85	S2MUQ01/80/630A/690V	004384728	aR	1	650
	710	S2UQ01/80/710A/690V	004384129	460.000	91	S2MUQ01/80/710A/690V	004384729	aR	1	650
	800	S2UQ01/80/800A/690V	004384130	720.000	95	S2MUQ01/80/800A/690V	004384730	aR	1	650
	630	S3UQ01/80/630A/690V	004385128	260.000	102	S3MUQ01/80/630A/690V	004385728	aR	1	850
	710	S3UQ01/80/710A/690V	004385129	330.000	109	S3MUQ01/80/710A/690V	004385729	aR	1	850
3	800	S3UQ01/80/800A/690V	004385130	500.000	117	S3MUQ01/80/800A/690V	004385730	aR	1	850
	1000	S3UQ01/80/1000A/690V	004385132	1.000.000	131	S3MUQ01/80/1000A/690V	004385732	aR	1	850
	1250*	S3UQ01/80/1250A/500V	004385133	2.300.000	152	S3MUQ01/80/1250A/500V	004385733	aR	1	850

* 500V

Dimensions:



Size	A	B	D	E	F1	F2	I	J	N
1	110	24	51	51	56	90	11	80	52
2	110	30	60	60	65	99	11	80	52
3	110	37	75	75	80	114	11	80	52

S1UQ01/80/350A/690V



S1MUQ01/80/350A/690V



ULTRA QUICK

SERIES
UQ01 SUPER QUICK ACTING

TYPES
S110mm

RATED VOLTAGE
~ 690V

Technical data:			Application:
Standards: DIN 43653 IEC 60269-4-1	Breaking capacity: ~ 200kA Rated voltage: ~ 690V	Characteristic: aR	Fuse-links type S 110mm of size 1, 2, 3 are applied in universal fuse base US1..3-1/80-110 and mounted by screws to busbars.

S1UQ01/110/450A/690V



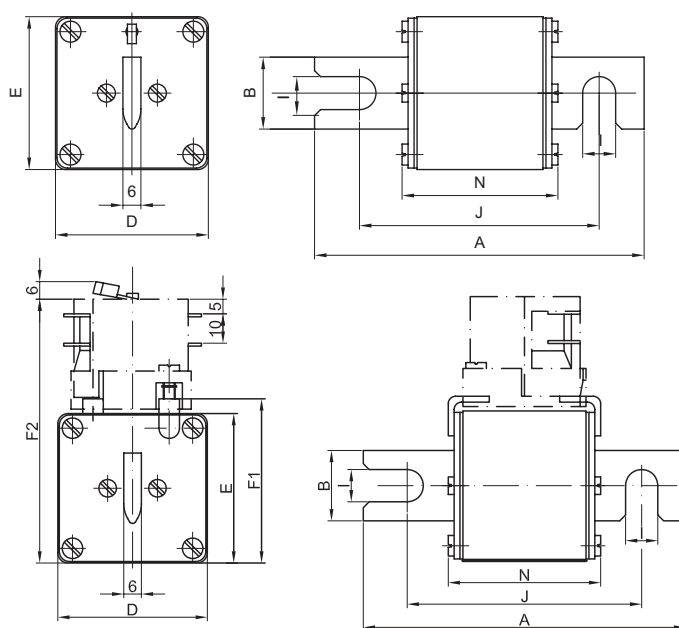
S1MUQ01/110/450A/690V



Size	In (A)	Type with visual indicator	Code No.	Operating I ² t-value (A ² s)	Power dissipation (W)	Type with centre trip indicator for microswitch MK	Code No.	Char.	Pack. (pcs)	Weight (g)
1	80	S1UQ01/110/80A/690V	004393113	2.300	15,6	S1MUQ01/110/80A/690V	004393713	aR	1	500
	100	S1UQ01/110/100A/690V	004393114	4.600	20	S1MUQ01/110/100A/690V	004393714	aR	1	500
	125	S1UQ01/110/125A/690V	004393115	6.600	25	S1MUQ01/110/125A/690V	004393715	aR	1	500
	160	S1UQ01/110/160A/690V	004393116	10.000	32,2	S1MUQ01/110/160A/690V	004393716	aR	1	500
	200	S1UQ01/110/200A/690V	004393117	18.000	39,4	S1MUQ01/110/200A/690V	004393717	aR	1	500
	250	S1UQ01/110/250A/690V	004393119	32.000	49,4	S1MUQ01/110/250A/690V	004393719	aR	1	500
	315	S1UQ01/110/315A/690V	004393121	58.000	60	S1MUQ01/110/315A/690V	004393721	aR	1	500
	350	S1UQ01/110/350A/690V	004393122	78.000	63	S1MUQ01/110/350A/690V	004393722	aR	1	500
	400	S1UQ01/110/400A/690V	004393123	110.000	66	S1MUQ01/110/400A/690V	004393723	aR	1	500
	450	S1UQ01/110/450A/690V	004393125	155.000	72	S1MUQ01/110/450A/690V	004393725	aR	1	500
2	500	S1UQ01/110/500A/690V	004393126	200.000	73	S1MUQ01/110/500A/690V	004393726	aR	1	500
	630	S1UQ01/110/630A/690V	004393128	330.000	86	S1MUQ01/110/630A/690V	004393728	aR	1	500
	400	S2UQ01/110/400A/690V	004394123	85.000	70	S2MUQ01/110/400A/690V	004394723	aR	1	650
	450	S2UQ01/110/450A/690V	004394125	125.000	76	S2MUQ01/110/450A/690V	004394725	aR	1	650
	500	S2UQ01/110/500A/690V	004394126	165.000	80	S2MUQ01/110/500A/690V	004394726	aR	1	650
	630	S2UQ01/110/630A/690V	004394128	310.000	85	S2MUQ01/110/630A/690V	004394728	aR	1	650
	710	S2UQ01/110/710A/690V	004394129	460.000	91	S2MUQ01/110/710A/690V	004394729	aR	1	650
	800	S2UQ01/110/800A/690V	004394130	720.000	95	S2MUQ01/110/800A/690V	004394730	aR	1	650
	630	S3UQ01/110/630A/690V	004395128	260.000	102	S3MUQ01/110/630A/690V	004395728	aR	3	850
	710	S3UQ01/110/710A/690V	004395129	330.000	109	S3MUQ01/110/710A/690V	004395729	aR	3	850
3	800	S3UQ01/110/800A/690V	004395130	500.000	117	S3MUQ01/110/800A/690V	004395730	aR	3	850
	1000	S3UQ01/110/1000A/690V	004395132	1.000.000	131	S3MUQ01/110/1000A/690V	004395732	aR	3	850
	1250*	S3UQ01/110/1250A/500V	004395133	2.300.000	152	S3MUQ01/110/1250A/500V	004395733	aR	3	850

* 500V

Dimensions:



Size	A	B	D	E	F1	F2	I	J	N
1	140	24	51	51	56	90	11	110	52
2	140	30	60	60	65	99	11	110	52
3	140	37	75	75	80	114	11	110	52

Technical data on page 74

SERIES
UQ01 SUPER QUICK ACTING

TYPES
G

RATED VOLTAGE
~690V

Technical data:

Standards:
IEC 60269-4-1

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

Characteristic:
aR

Application:

Fuse-links type G has threaded studs so fuses are mounted by special screws to busbars.

Size	In (A)	Type with visual indicator	Code No.	Operating I ² t-value (A ² s)	Power dissipation (W)	Type with centre trip indicator for microswitch MK	Code No.	Char.	Pack. (pcs)	Weight (g)
1	80	G1UQ01/80A/690V	004373513	2.300	15,6	G1MUQ01/80A/690V	004373613	aR	2	500
	100	G1UQ01/100A/690V	004373514	4.600	20	G1MUQ01/100A/690V	004373614	aR	2	500
	125	G1UQ01/125A/690V	004373515	6.600	25	G1MUQ01/125A/690V	004373615	aR	2	500
	160	G1UQ01/160A/690V	004373516	10.000	32,2	G1MUQ01/160A/690V	004373616	aR	2	500
	200	G1UQ01/200A/690V	004373517	18.000	39,4	G1MUQ01/200A/690V	004373617	aR	2	500
	250	G1UQ01/250A/690V	004373519	32.000	49,4	G1MUQ01/250A/690V	004373619	aR	2	500
	315	G1UQ01/315A/690V	004373521	58.000	60	G1MUQ01/315A/690V	004373621	aR	2	500
	350	G1UQ01/350A/690V	004373522	78.000	63	G1MUQ01/350A/690V	004373622	aR	2	500
	400	G1UQ01/400A/690V	004373523	110.000	66	G1MUQ01/400A/690V	004373623	aR	2	500
	450	G1UQ01/450A/690V	004373525	155.000	72	G1MUQ01/450A/690V	004373625	aR	2	500
2	500	G1UQ01/500A/690V	004373526	200.000	73	G1MUQ01/500A/690V	004373626	aR	2	500
	630	G1UQ01/630A/690V	004373528	330.000	86	G1MUQ01/630A/690V	004373628	aR	2	500
	400	G2UQ01/400A/690V	004374523	85.000	70	G2MUQ01/400A/690V	004374623	aR	2	650
	450	G2UQ01/450A/690V	004374525	125.000	76	G2MUQ01/450A/690V	004374625	aR	2	650
	500	G2UQ01/500A/690V	004374526	165.000	80	G2MUQ01/500A/690V	004374626	aR	2	650
	630	G2UQ01/630A/690V	004374528	310.000	85	G2MUQ01/630A/690V	004374628	aR	2	650
	710	G2UQ01/710A/690V	004374529	460.000	91	G2MUQ01/710A/690V	004374629	aR	2	650
	800	G2UQ01/800A/690V	004374530	720.000	95	G2MUQ01/800A/690V	004374630	aR	2	650
	630	G3UQ01/630A/690V	004375528	260.000	102	G3MUQ01/630A/690V	004375628	aR	2	850
	710	G3UQ01/710A/690V	004375529	330.000	109	G3MUQ01/710A/690V	004375629	aR	2	850
3	800	G3UQ01/800A/690V	004375530	500.000	117	G3MUQ01/800A/690V	004375630	aR	2	850
	1000	G3UQ01/1000A/690V	004375532	1.000.000	131	G3MUQ01/1000A/690V	004375632	aR	2	850
	1250*	G3UQ01/1250A/500V	004375533	2.300.000	152	G3MUQ01/1250A/500V	004375633	aR	2	850

* 500V

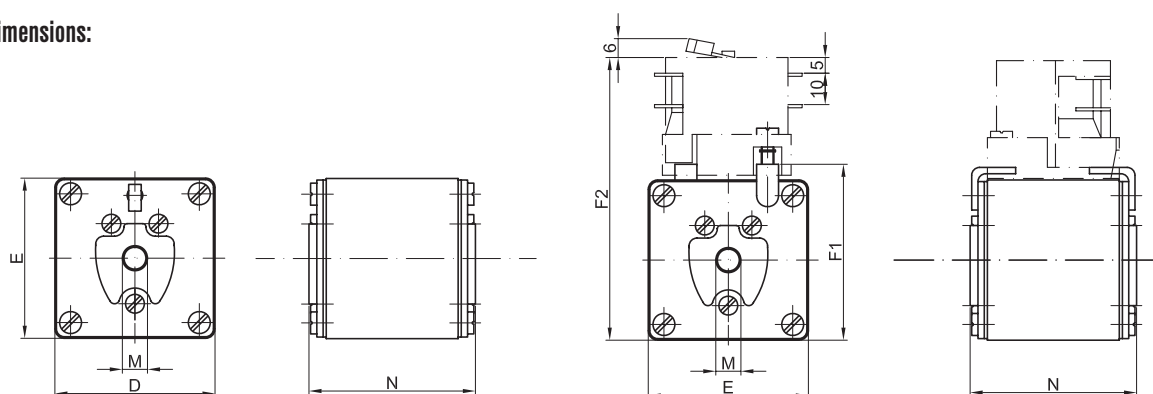
G1UQ01/630A/690V



G2MUQ01/630A/690V



Dimensions:

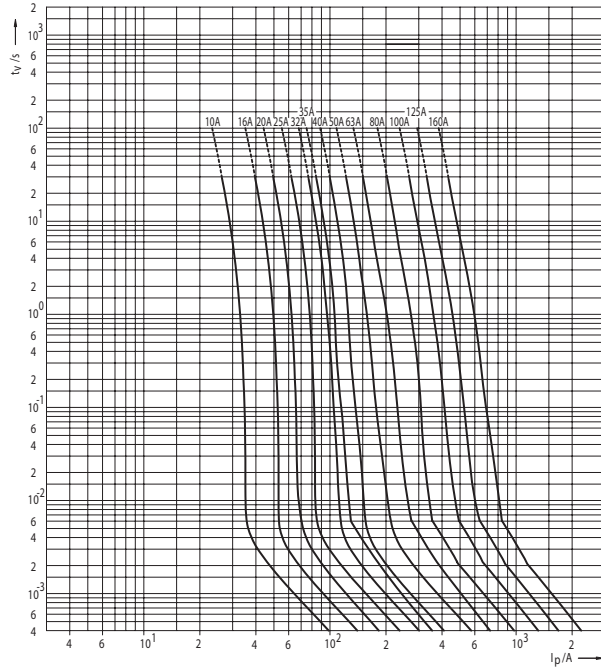


Size	D	E	F1	F2	M	N
1	51	51	56	90	M8	53
2	60	60	65	99	M10	53
3	75	75	80	114	M12	53

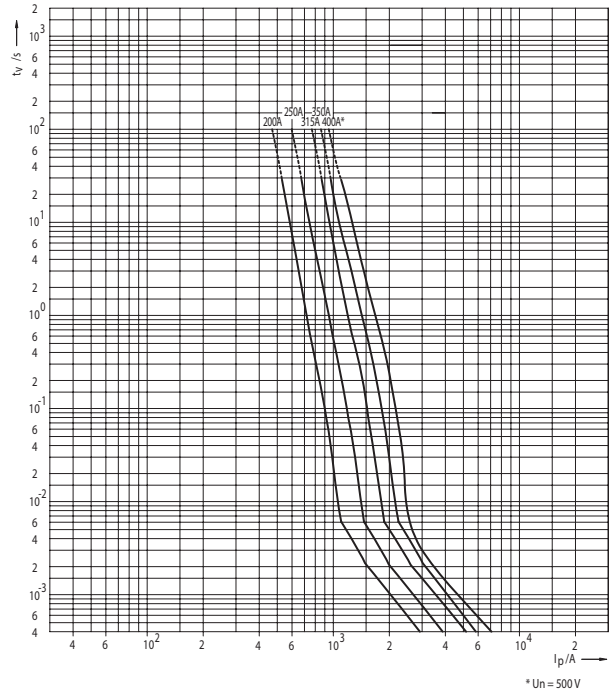
SERIES
UQ01

RATED VOLTAGE
~ 690V

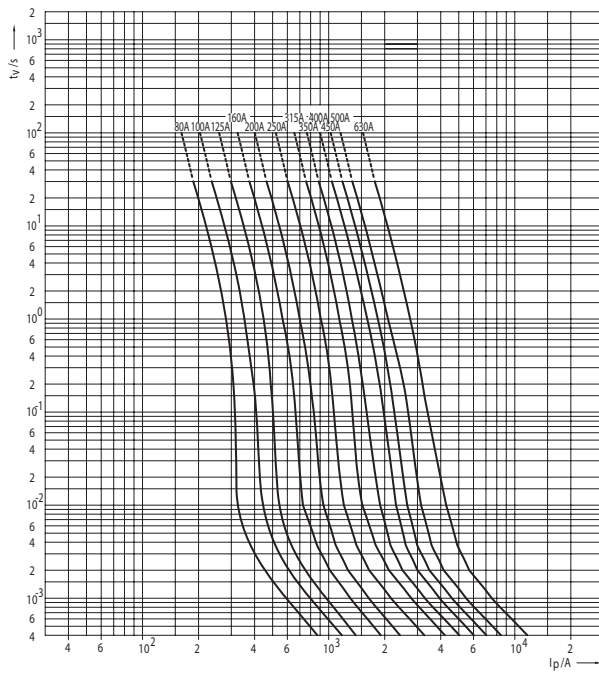
Time/current characteristics of fuse-links Ultra Quick MUQ01, SUQ01 - size 00C and 00, 10-160A



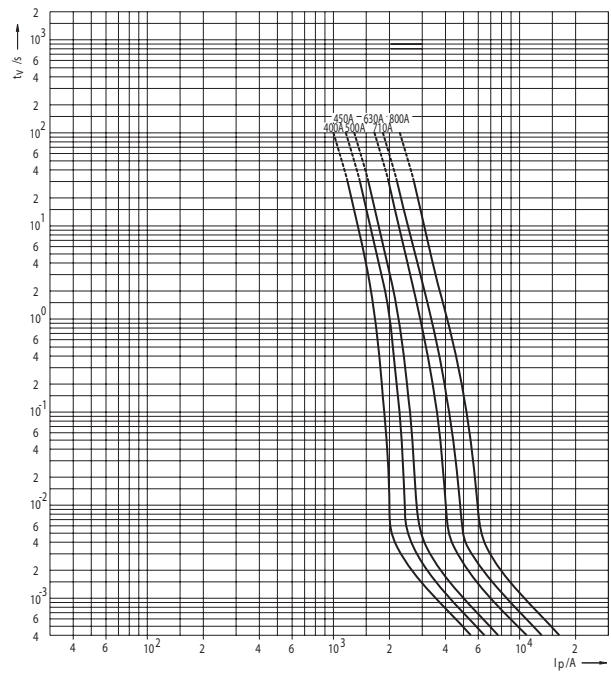
Time/current characteristics of fuse-links Ultra Quick SUQ01 - size 00C and 00, 200-400A



Time/current characteristics of fuse-links Ultra Quick SUQ01, GUQ01 - size 1



Time/current characteristics of fuse-links Ultra Quick SUQ01, GUQ01 - size 2



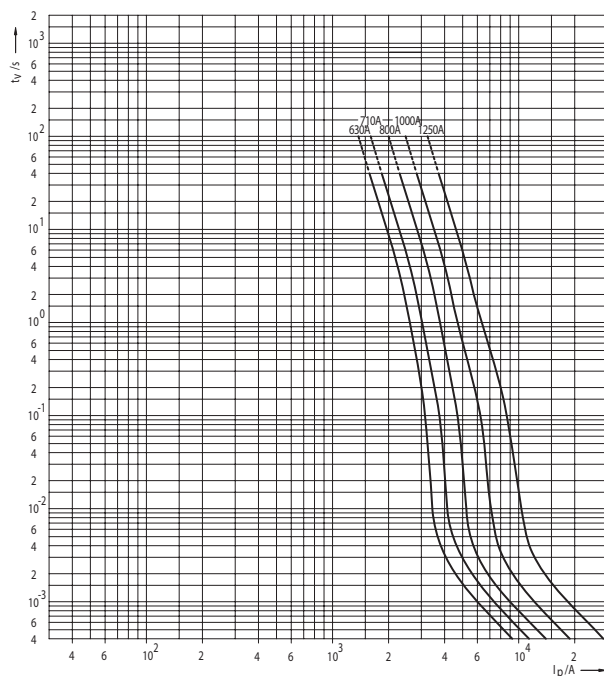
CHARACTERISTICS

SYSTEM NV/NH

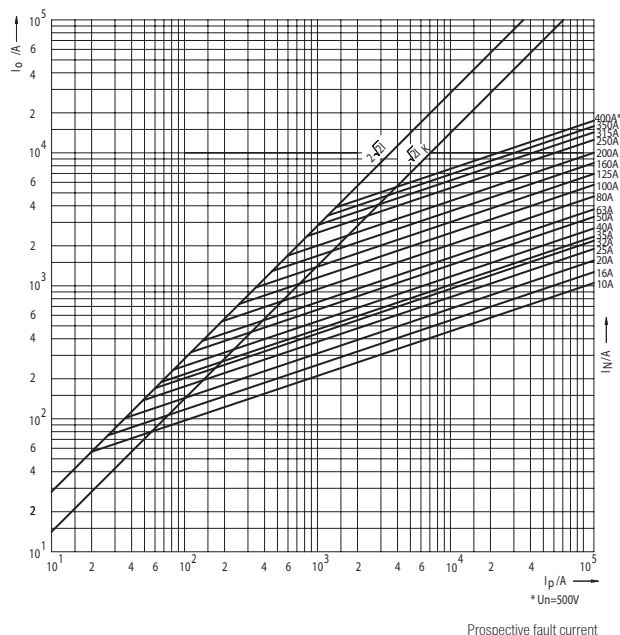
SERIES
UQ01

RATED VOLTAGE
~690V

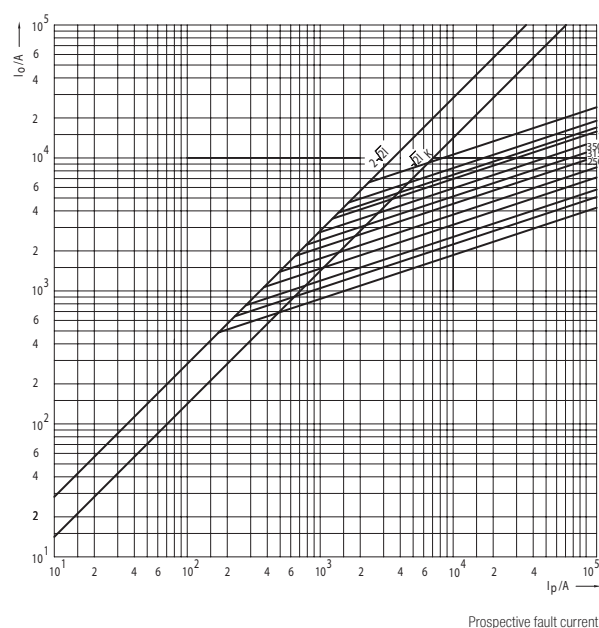
Time/current characteristics of fuse-links Ultra Quick SUQ01, GUQ01 - size 3



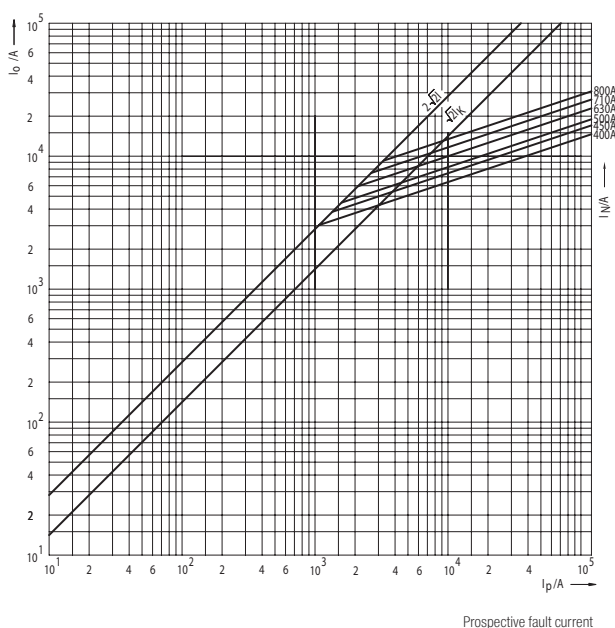
Cut-off characteristics of fuse-links Ultra Quick MUQ01 and SUQ01 - size 00C and 00



Cut-off characteristics of fuse-links Ultra Quick SUQ01, GUQ01 - size 1



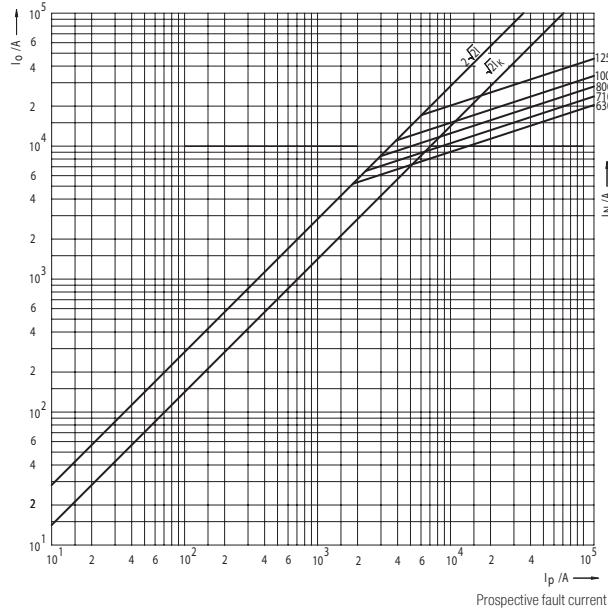
Cut-off characteristics of fuse-links Ultra Quick SUQ01, GUQ01 - size 2



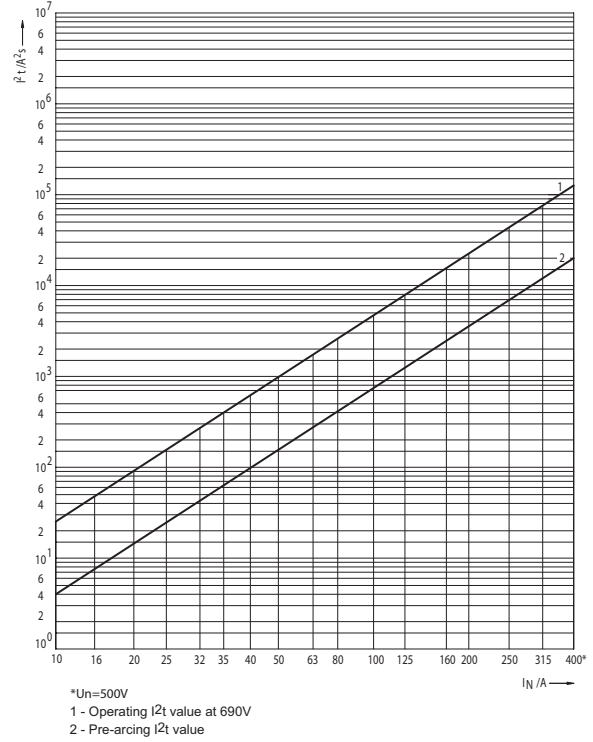
SERIES
UQ01

RATED VOLTAGE
~690V

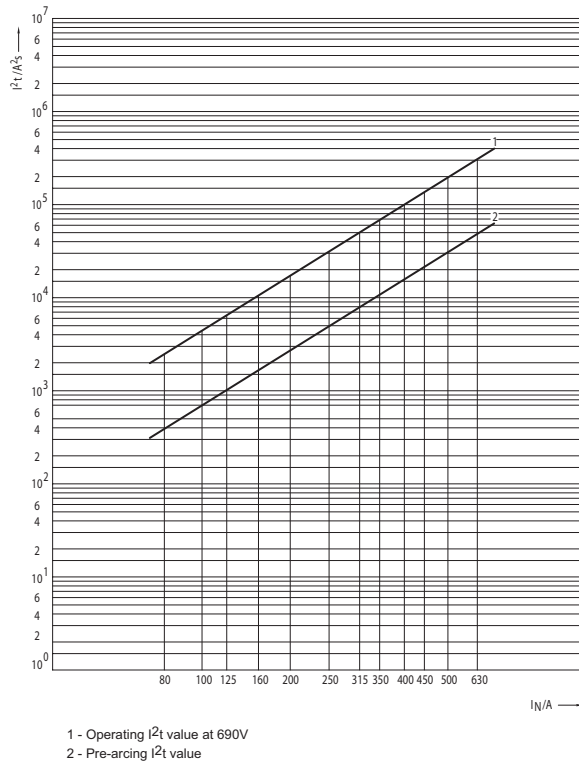
Time/current characteristics of fuse-links Ultra Quick SUQ01, GUQ01 - size 3



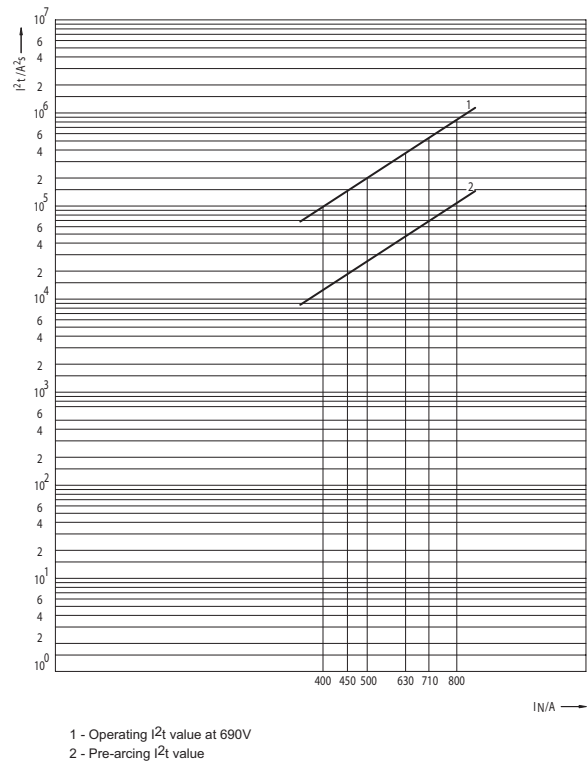
Joule Integral (I^2t) for Ultra Quick MUQ01 and SUQ01 - size 00C and 00



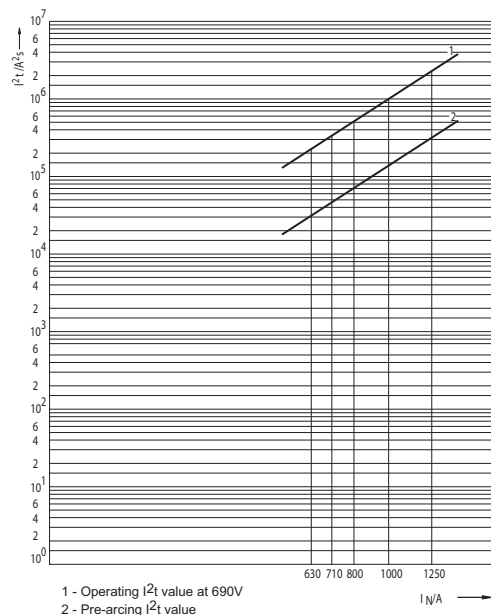
Joule Integral (I^2t) for Ultra Quick SUQ01, GUQ01 - size 1



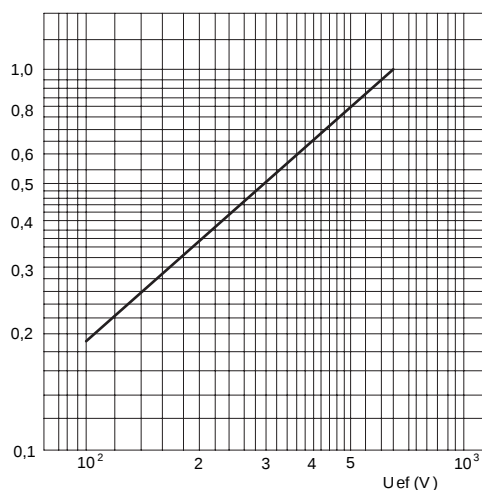
Joule Integral (I^2t) for Ultra Quick SUQ01, GUQ01 - size 2



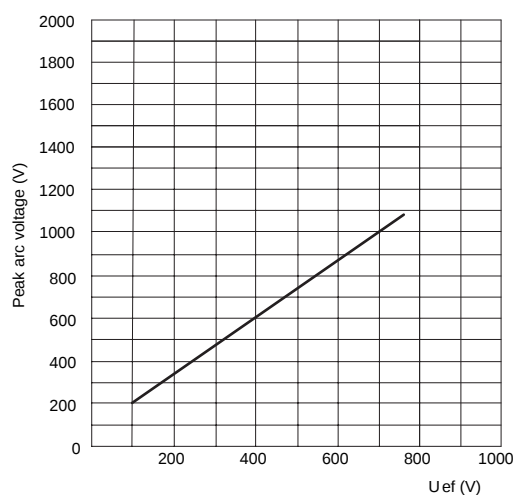
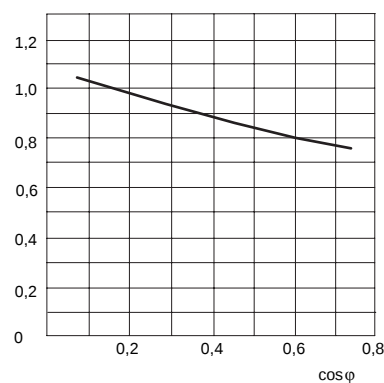
CHARACTERISTICS

SYSTEM **NV/NH**SERIES
UQ01RATED VOLTAGE
~ 690VJoule Integral (I^2t) for Ultra Quick SUQ01, GUQ01 - size 3

Conversion factor for total Joule integral



Maximum arc voltage accuring

Correction factor for performance factor $\cos\varphi \neq 0,15$ for operating I^2t values

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
UQ01

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 $I^2t \sim 230V$	Operating Joule Integral $I^2t \sim 400V$	Operating Joule Integral $I^2t \sim 500V$	Operating Joule Integral $I^2t \sim 690V$
	A	W	A ² s	A ² s	A ² s	A ² s	A ² s
M00, S00C and S00	10	3,00	3	4	9	14	23
	16	4,00	8	18	28	37	46
	20	5,00	16	38	57	76	95
	25	6,00	26	66	99	132	165
	32	7,00	46	116	174	232	290
	35	8,00	64	160	240	320	400
	40	9,00	110	256	384	512	640
	50	10,00	165	400	600	800	1.000
	63	12,3	300	720	1.080	1.440	1.800
	80	16,3	440	1.120	1.680	2.240	2.800
	100	20,0	800	1.840	2.760	3.680	4.600
	125	26,9	1.400	3.200	4.800	6.400	8.000
	160	31,6	2.500	6.600	9.900	13.200	16.500
	200	38,7	4.000	9.200	13.800	18.400	23.000
	250	43,8	8.000	18.400	27.600	36.800	46.000
	315	54	14.000	32.000	48.000	64.000	80.000
	350	60	15.000	40.000	60.000	80.000	100.000
	400*	70	20.000	65.000	104.000	130.000	120.000
S1, G1	80	15,6	400	920	1.380	1.840	2.300
	100	20,0	660	1.840	2.760	3.680	4.600
	125	25,0	1.000	2.640	3.960	5.280	6.600
	160	32,2	1.650	4.000	6.000	8.000	10.000
	200	39,4	2.800	7.200	10.800	14.400	18.000
	250	49,4	4.600	12.800	19.200	25.600	32.000
	315	60	8.000	23.200	34.800	46.400	58.000
	350	63	11.000	31.200	46.800	62.400	78.000
	400	66	16.000	44.000	66.000	88.000	110.000
	450	72	22.000	62.000	93.000	124.000	155.000
S2, G2	500	73	32.000	80.000	120.000	160.000	200.000
	630	86	52.000	132.000	198.000	264.000	330.000
	400	70	11.000	34.000	51.000	68.000	85.000
	450	76	16.500	50.000	75.000	100.000	125.000
	500	80	22.000	66.000	99.000	132.000	165.000
	630	85	44.000	124.000	186.000	248.000	310.000
	710	91	64.000	184.000	276.000	368.000	460.000
	800	95	100.000	288.000	432.000	576.000	720.000
S3, G3	630	102	33.000	104.000	156.000	208.000	260.000
	710	109	46.000	132.000	198.000	264.000	330.000
	800	117	78.000	200.000	300.000	400.000	500.000
	1000	131	150.000	400.000	600.000	800.000	1.000.000
	1250	152	320.000	920.000	1.380.000	1.840.000	2.300.000

* Un = 500V

SERIES UQ01 SUPER QUICK ACTING	TYPES S80mm	RATED VOLTAGE ~ 1000V
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Technical data:			Application:
Standards: DIN 43653 IEC 60269-4-1	Breaking capacity: ~ 200kA Rated voltage: ~ 1000V	Characteristic: aR	Fuse-links type S of size 00C and 00 are applied in fuse base US00-1/80 and mounted by screws to busbars.

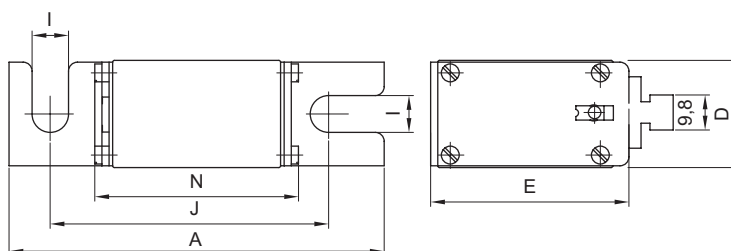
S00UQ01/80/200A/1000V



Size	In (A)	Type (visual indicator with grip for microswitch NVS 5)	Code No.	Operating I ² t-value (A²s)	Power dissipation (W)	Char.	Packaging (pcs)	Weight (g)
00	32	S00UQ01/80/32A/1000V	004301108	200	15,1	aR	3	250
	40	S00UQ01/80/40A/1000V	004301110	330	18,1	aR	3	250
	50	S00UQ01/80/50A/1000V	004301111	670	20	aR	3	250
	63	S00UQ01/80/63A/1000V	004301112	1.300	24,3	aR	3	250
	80	S00UQ01/80/80A/1000V	004301113	2.400	27,4	aR	3	250
	100	S00UQ01/80/100A/1000V	004301114	4.700	30	aR	3	250
	125	S00UQ01/80/125A/1000V	004301115	10.000	38,2	aR	3	250
	160	S00UQ01/80/160A/1000V	004301116	16.000	47,2	aR	3	250
	200	S00UQ01/80/200A/1000V	004301117	30.000	57	aR	3	250
	250	S00UQ01/80/250A/1000V	004301119	58.000	67	aR	3	250
	315*	S00UQ01/80/315A/900V	004301121	110.000	78	aR	3	250

*900V

Dimensions:

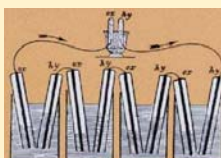


Size	A	D	E	I	J	N
00	105	30	51	10	78	56

remember

Future applications:

Protection for alternative energy power plant:
- Wind power
- Solar power
- Fuel cell



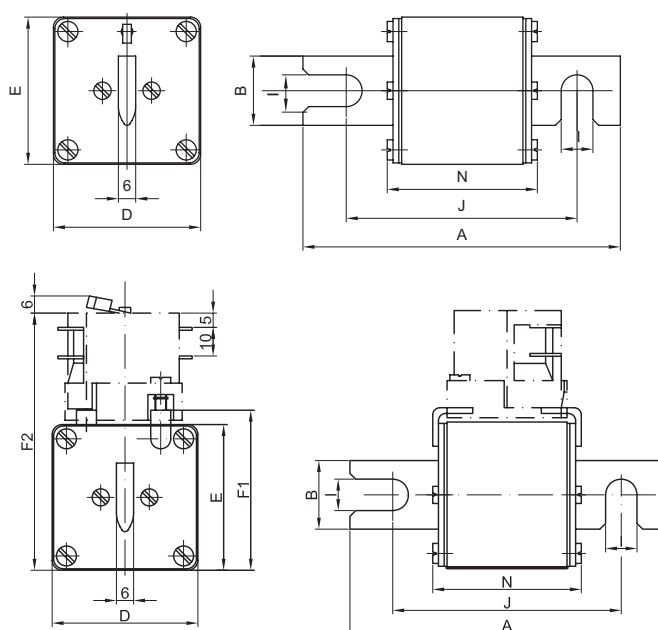
Technical data on page 79

SERIES UQ01 SUPER QUICK ACTING	TYPES S110mm	RATED VOLTAGE ~ 1000V
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Technical data:			Application:
Standards: DIN 43653 IEC 60269-4-1	Breaking capacity: ~ 200kA Rated voltage: ~ 1000V	Characteristic: aR	Fuse-links type S 110mm of size 1, 2, 3 are applied in universal fuse base US1..3-1/80-110 and mounted by screws to busbars.

Size	In (A)	Type with visual indicator	Code No.	Operating I ² t-value (A ² s)	Power dissipation (W)	Type with centre trip indicator for microswitch MK	Code No.	Char.	Pack. (pcs)	Weight (g)
1	63	S1UQ01/110/63A/1000V	004303112	2.000	15,1	S1MUQ01/110/63A/1000V	004303712	aR	1	500
	80	S1UQ01/110/80A/1000V	004303113	3.400	20	S1MUQ01/110/80A/1000V	004303713	aR	1	500
	100	S1UQ01/110/100A/1000V	004303114	6.100	25	S1MUQ01/110/100A/1000V	004303714	aR	1	500
	125	S1UQ01/110/125A/1000V	004303115	11.000	30	S1MUQ01/110/125A/1000V	004303715	aR	1	500
	160	S1UQ01/110/160A/1000V	004303116	17.000	35	S1MUQ01/110/160A/1000V	004303716	aR	1	500
	200	S1UQ01/110/200A/1000V	004303117	31.000	45,3	S1MUQ01/110/200A/1000V	004303717	aR	1	500
	250	S1UQ01/110/250A/1000V	004303119	50.000	54	S1MUQ01/110/250A/1000V	004303719	aR	1	500
	315	S1UQ01/110/315A/1000V	004303121	110.000	60	S1MUQ01/110/315A/1000V	004303721	aR	1	500
	350	S1UQ01/110/350A/1000V	004303122	150.000	65	S1MUQ01/110/350A/1000V	004303722	aR	1	500
	400	S1UQ01/110/400A/1000V	004303123	200.000	70	S1MUQ01/110/400A/1000V	004303723	aR	1	500
2	450	S1UQ01/110/450A/1000V	004303125	310.000	74	S1MUQ01/110/450A/1000V	004303725	aR	1	500
	500	S1UQ01/110/500A/1000V	004303126	400.000	80	S1MUQ01/110/500A/1000V	004303726	aR	1	500
	315	S2UQ01/110/315A/1000V	004304121	85.000	66	S2MUQ01/110/315A/1000V	004304721	aR	1	650
	350	S2UQ01/110/350A/1000V	004304122	130.000	70	S2MUQ01/110/350A/1000V	004304722	aR	1	650
	400	S2UQ01/110/400A/1000V	004304123	170.000	80	S2MUQ01/110/400A/1000V	004304723	aR	1	650
	450	S2UQ01/110/450A/1000V	004304125	220.000	86	S2MUQ01/110/450A/1000V	004304725	aR	1	650
3	500	S2UQ01/110/500A/1000V	004304126	320.000	90	S2MUQ01/110/500A/1000V	004304726	aR	1	650
	630	S2UQ01/110/630A/1000V	004304128	600.000	108	S2MUQ01/110/630A/1000V	004304728	aR	1	650
	500	S3UQ01/110/500A/1000V	004305126	250.000	100	S3MUQ01/110/500A/1000V	004305726	aR	3	850
	630	S3UQ01/110/630A/1000V	004305128	500.000	110	S3MUQ01/110/630A/1000V	004305728	aR	3	850
	710	S3UQ01/110/710A/1000V	004305129	670.000	125	S3MUQ01/110/710A/1000V	004305729	aR	3	850
	800	S3UQ01/110/800A/1000V	004305130	870.000	136	S3MUQ01/110/800A/1000V	004305730	aR	3	850
	1000	S3UQ01/110/1000A/1000V	004305132	2.000.000	157	S3MUQ01/110/1000A/1000V	004305732	aR	3	850

Dimensions:



Size	A	B	D	E	F1	F2	I	J	N
1	140	24	51	51	56	90	11	110	74
2	140	30	60	60	65	99	11	110	74
3	140	37	75	75	80	114	11	110	74

S1UQ01/110/400A/1000V



S1MUQ01/110/400A/1000V



ULTRA QUICK

SERIES
UQ01 SUPER QUICK ACTING

TYPES
G

RATED VOLTAGE
~ 1000V

Technical data:

Standards:
IEC 60269-4-1

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

Characteristic:
aR

Application:

Fuse-links type G has threaded studs so fuses are mounted by special screws to busbars.

G3UQ01/800A/1000V

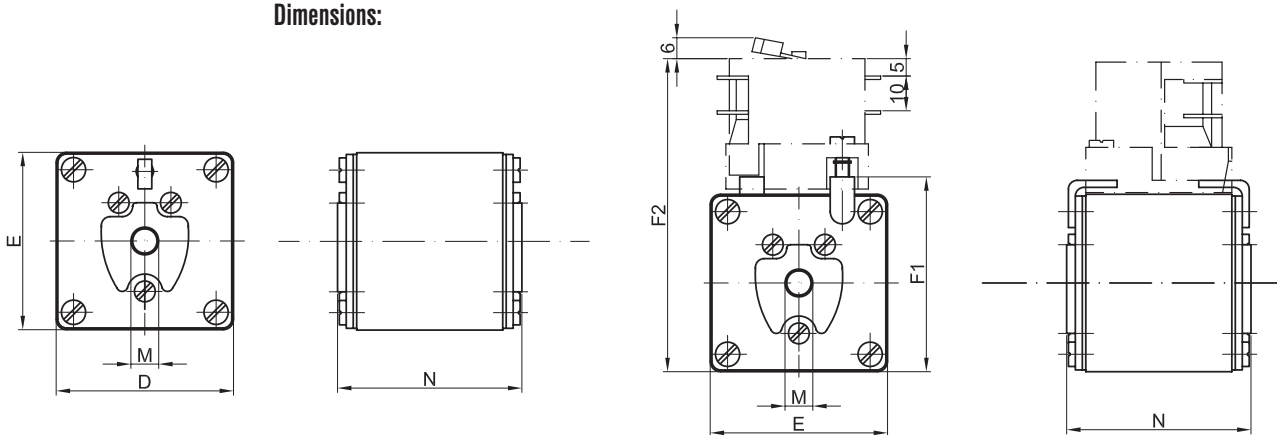


G1MUQ01/400A/1000V



Size	In (A)	Type with visual indicator	Code No.	Operating I ² t-value (A ² s)	Power dissipation (W)	Type with centre trip indicator for microswitch MK	Code No.	Char.	Pack. (pcs)	Weight (g)
1	63	G1UQ01/63A/1000V	004303512	2.000	15,1	G1MUQ01/63A/1000V	004303612	aR	1	500
	80	G1UQ01/80A/1000V	004303513	3.400	20	G1MUQ01/80A/1000V	004303613	aR	1	500
	100	G1UQ01/100A/1000V	004303514	6.100	25	G1MUQ01/100A/1000V	004303614	aR	1	500
	125	G1UQ01/125A/1000V	004303515	11.000	30	G1MUQ01/125A/1000V	004303615	aR	1	500
	160	G1UQ01/160A/1000V	004303516	17.000	35	G1MUQ01/160A/1000V	004303616	aR	1	500
	200	G1UQ01/200A/1000V	004303517	31.000	45,3	G1MUQ01/200A/1000V	004303617	aR	1	500
	250	G1UQ01/250A/1000V	004303519	50.000	54	G1MUQ01/250A/1000V	004303619	aR	1	500
	315	G1UQ01/315A/1000V	004303521	110.000	60	G1MUQ01/315A/1000V	004303621	aR	1	500
	350	G1UQ01/350A/1000V	004303522	150.000	65	G1MUQ01/350A/1000V	004303622	aR	1	500
	400	G1UQ01/400A/1000V	004303523	200.000	70	G1MUQ01/400A/1000V	004303623	aR	1	500
2	450	G1UQ01/450A/1000V	004303525	310.000	74	G1MUQ01/450A/1000V	004303625	aR	1	500
	500	G1UQ01/500A/1000V	004303526	400.000	80	G1MUQ01/500A/1000V	004303626	aR	1	500
	315	G2UQ01/315A/1000V	004304521	85.000	66	G2MUQ01/315A/1000V	004304621	aR	2	650
	350	G2UQ01/350A/1000V	004304522	130.000	70	G2MUQ01/350A/1000V	004304622	aR	2	650
	400	G2UQ01/400A/1000V	004304523	170.000	80	G2MUQ01/400A/1000V	004304623	aR	2	650
	450	G2UQ01/450A/1000V	004304525	220.000	86	G2MUQ01/450A/1000V	004304625	aR	2	650
	500	G2UQ01/500A/1000V	004304526	320.000	90	G2MUQ01/500A/1000V	004304626	aR	2	650
	630	G2UQ01/630A/1000V	004304528	600.000	108	G2MUQ01/630A/1000V	004304628	aR	2	650
	500	G3UQ01/500A/1000V	004305526	250.000	100	G3MUQ01/500A/1000V	004305626	aR	2	850
	630	G3UQ01/630A/1000V	004305528	500.000	110	G3MUQ01/630A/1000V	004305628	aR	2	850
3	710	G3UQ01/710A/1000V	004305529	670.000	125	G3MUQ01/710A/1000V	004305629	aR	2	850
	800	G3UQ01/800A/1000V	004305530	870.000	136	G3MUQ01/800A/1000V	004305630	aR	2	850
	1000	G3UQ01/1000A/1000V	004305532	2.000.000	157	G3MUQ01/1000A/1000V	004305632	aR	2	850

Dimensions:

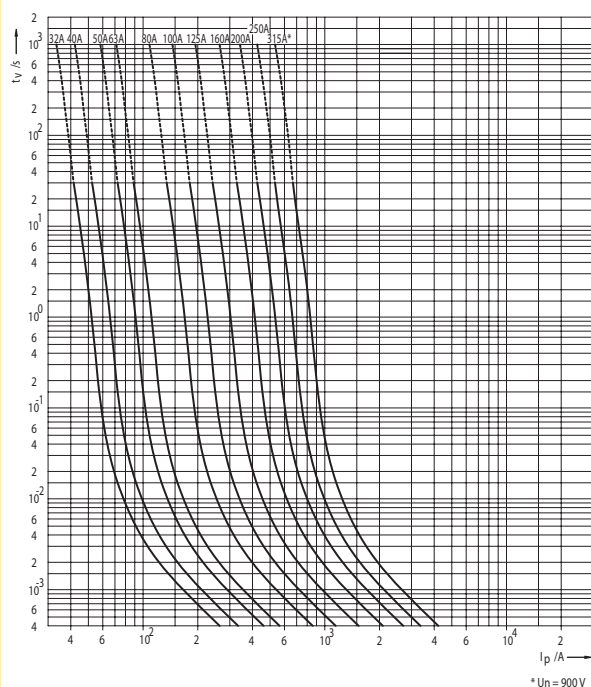


Size	D	E	F1	F2	M	N
1	51	51	56	90	M8	75
2	60	60	65	99	M10	75
3	75	75	80	114	M12	75

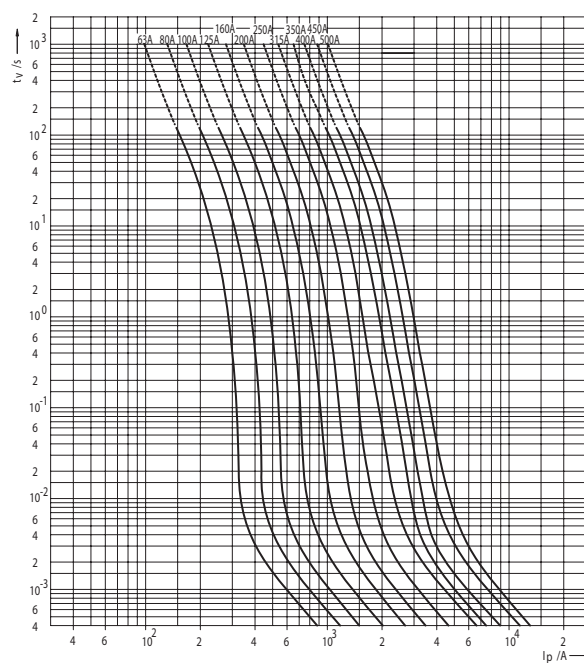
CHARACTERISTICS

SYSTEM **NV/NH**SERIES
UQ01RATED VOLTAGE
~ 1000V

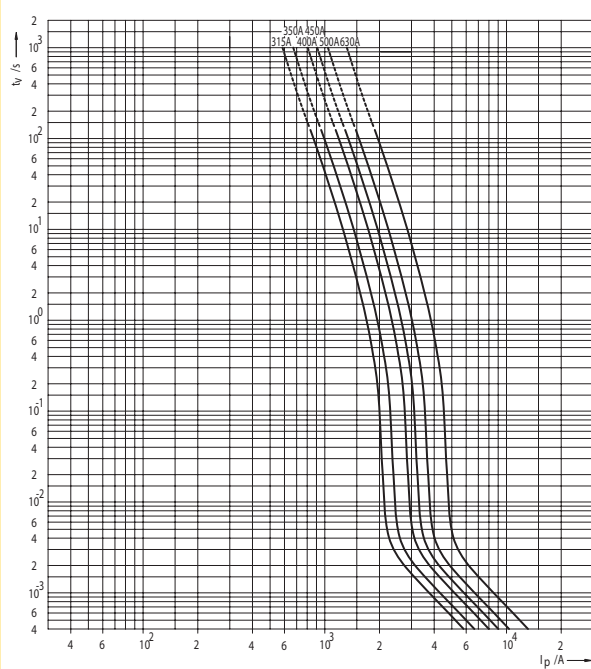
Time/current characteristics of fuse-links Ultra Quick SUQ01 - size 00



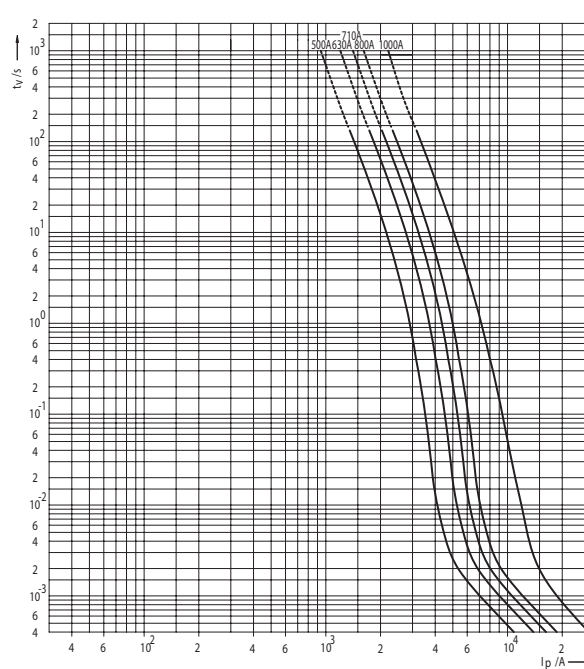
Time/current characteristics of fuse-links Ultra Quick SUQ01, GUQ01 - size 1



Time/current characteristics of fuse-links Ultra Quick SUQ01, GUQ01 - size 2



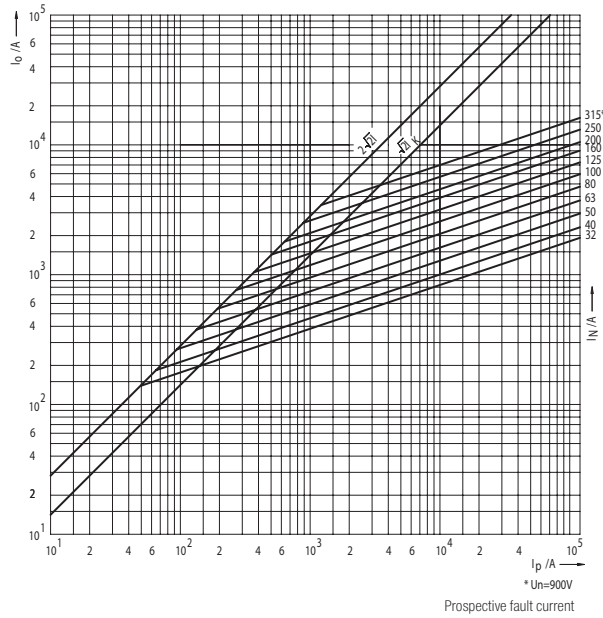
Time/current characteristics of fuse-links Ultra Quick SUQ01, GUQ01 - size 3



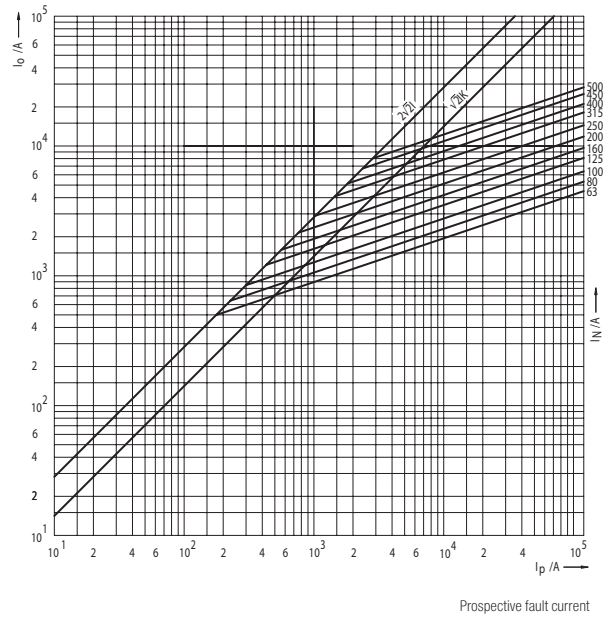
SERIES
UQ01

RATED VOLTAGE
~ 1000V

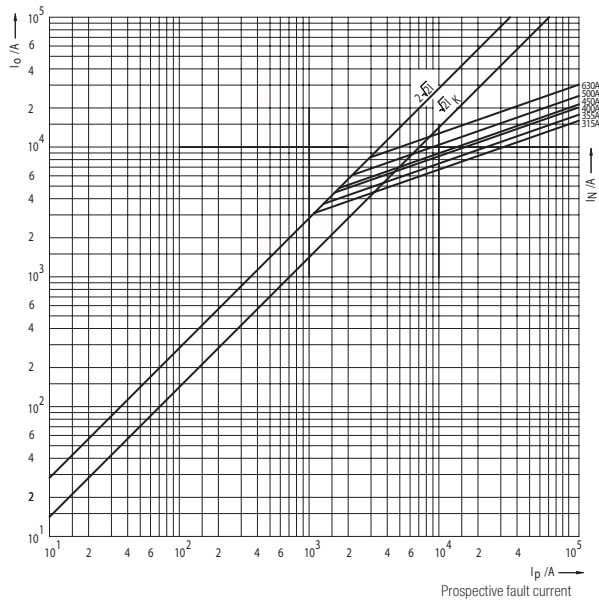
Cut-off characteristics of fuse-links Ultra Quick SUQ01 - size 00



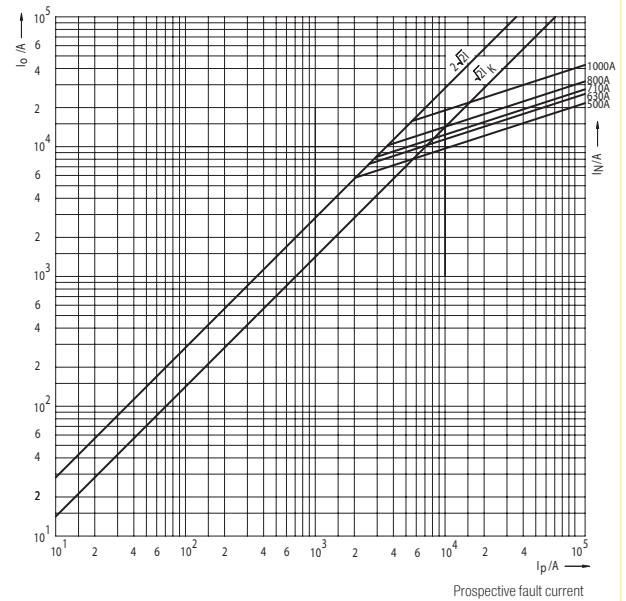
Cut-off characteristics of fuse-links Ultra Quick SUQ01, GUQ01 - size 1



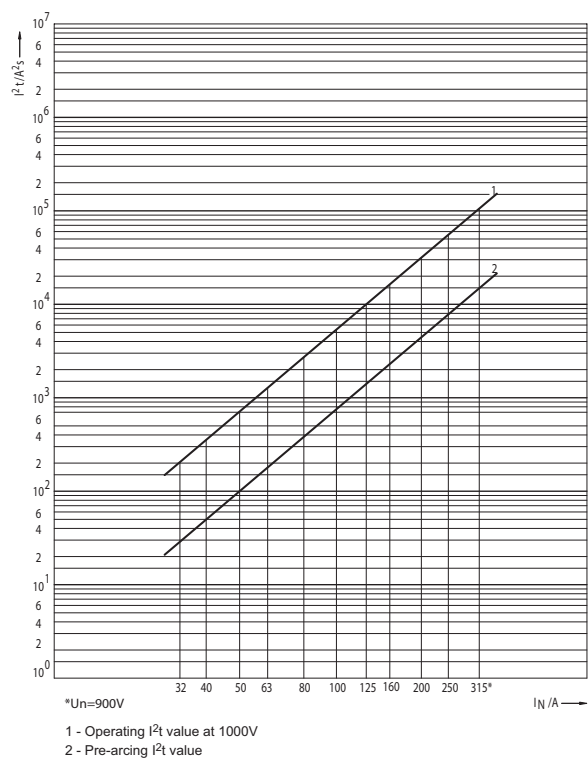
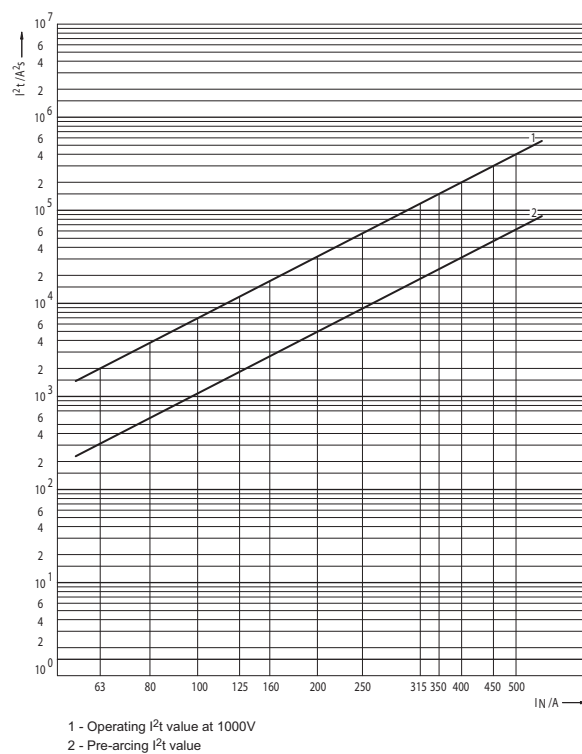
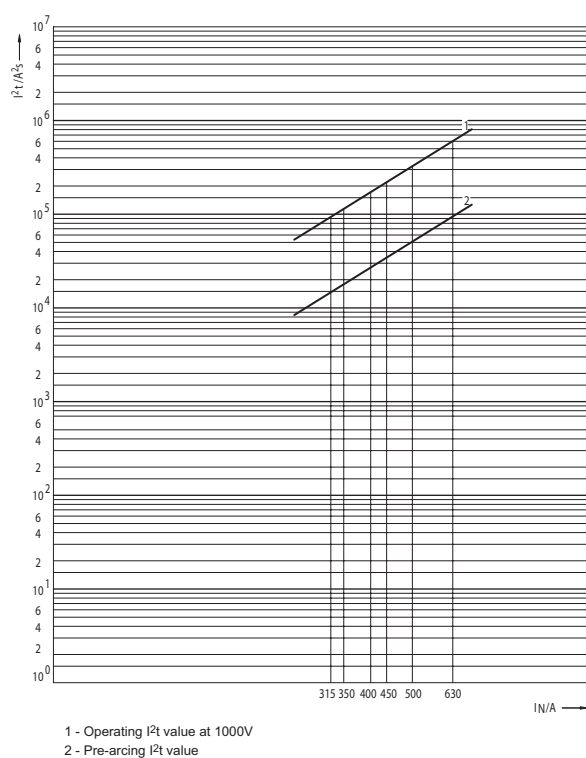
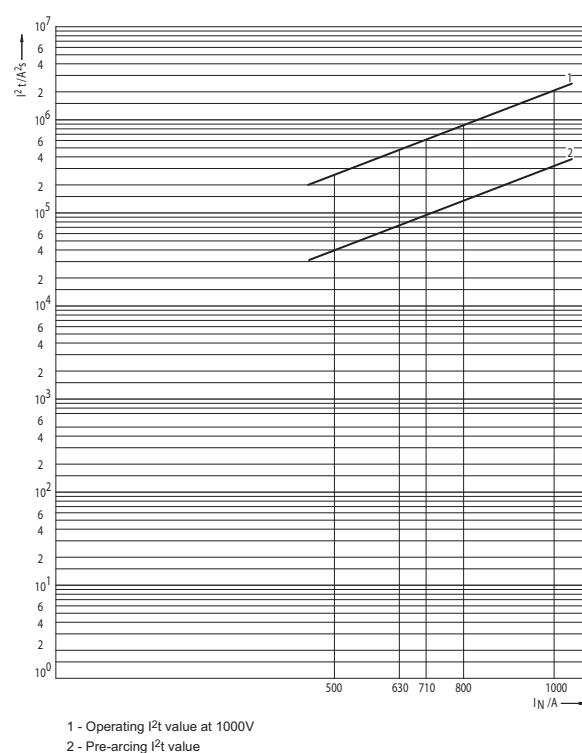
Cut-off characteristics of fuse-links Ultra Quick SUQ01, GUQ01 - size 2



Cut-off characteristics of fuse-links Ultra Quick SUQ01, GUQ01 - size 3



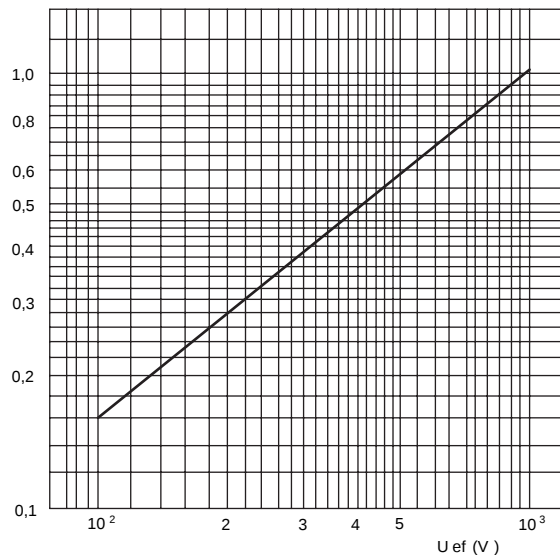
CHARACTERISTICS

SYSTEM **NV/NH**SERIES
UQ01RATED VOLTAGE
~ 1000VJoule Integral (I^2t) for Ultra Quick SUQ01 - size 00Joule Integral (I^2t) for Ultra Quick SUQ01, GUQ01 - size 1Joule Integral (I^2t) for Ultra Quick SUQ01, GUQ01 - size 2Joule Integral (I^2t) for Ultra Quick SUQ01, GUQ01 - size 3

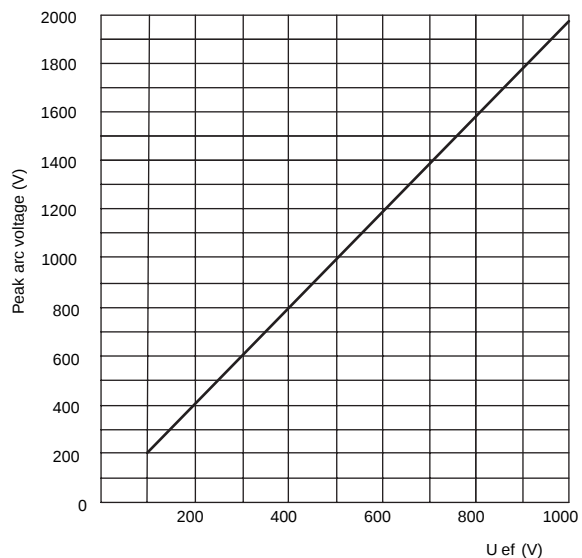
SERIES
UQ01

RATED VOLTAGE
~ 1000V

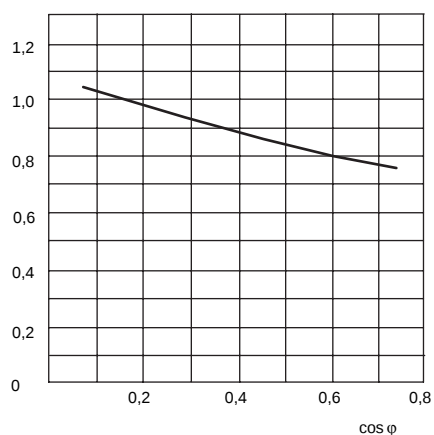
Conversion factor for total Joule integral



Maximum arc voltage occurring



Correction factor for performance factor $\cos \varphi \approx 0,15$ for operating I^2t values



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 **NV/NH**

SERIES
UQ01

RATED VOLTAGE
~ 1000V

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 $I^2t \sim 230V$	Operating Joule Integral $I^2t \sim 400V$	Operating Joule Integral $I^2t \sim 500V$	Operating Joule Integral $I^2t \sim 690V$	Operating Joule Integral $I^2t \sim 1000V$
	A	W	A ² s	A ² s	A ² s	A ² s	A ² s	A ² s
S00	32	15,1	26	63	98	116	150	200
	40	18,1	45	104	162	191	248	330
	50	20,0	100	211	328	389	503	670
	63	24,3	165	410	637	754	975	1.300
	80	27,4	330	756	1.176	1.392	1.800	2.400
	100	30,0	660	1.481	2.303	2.726	3.525	4.700
	125	38,2	1.500	3.150	4.900	5.800	7.500	10.000
	160	47,2	2.100	5.040	7.840	9.280	12.000	16.000
	200	57	4.000	9.450	14.700	17.400	22.500	30.000
	250	67	8.000	18.270	28.420	33.640	43.500	58.000
	315*	78	15.000	34.650	53.900	63.800	82.500	110.000
S1, G1	63	15,1	300	630	980	1.160	1.500	2.000
	80	20,0	600	1.071	1.666	1.972	2.550	3.400
	100	25,0	1.000	1.922	2.989	3.538	4.575	6.100
	125	30,0	1.650	3.465	5.390	6.380	8.250	11.000
	160	35,0	2.700	5.355	8.330	9.860	12.750	17.000
	200	45,3	4.800	9.765	15.190	17.980	23.250	31.000
	250	54	8.000	15.750	24.500	29.000	37.500	50.000
	315	60	16.500	34.650	53.900	63.800	82.500	110.000
	350	65	21.000	47.250	73.500	87.000	112.500	150.000
	400	70	32.000	63.000	98.000	116.000	150.000	200.000
	450	74	46.000	97.650	151.900	179.800	232.500	310.000
	500	80	64.000	126.000	196.000	232.000	300.000	400.000
S2, G2	315	66	15.000	26.775	41.650	49.300	63.750	85.000
	350	70	18.000	40.950	63.700	75.400	97.500	130.000
	400	80	28.000	53.550	83.300	98.600	127.500	170.000
	450	86	33.000	69.300	107.800	127.600	165.000	220.000
	500	90	55.000	100.800	156.800	185.600	240.000	320.000
	630	108	100.000	189.000	294.000	348.000	450.000	600.000
S3, G3	500	100	41.000	78.750	122.500	145.000	187.500	250.000
	630	110	80.000	157.500	245.000	290.000	375.000	500.000
	710	125	100.000	211.050	328.300	388.600	502.500	670.000
	800	136	150.000	274.050	426.300	504.600	652.500	870.000
	1000	157	310.000	630.000	980.000	1.160.000	1.500.000	2.000.000

* Un = 900V

Technical data on page 84

SERIES

UQ2 QUICK ACTING

TYPES

M

RATED VOLTAGE

~500V

Technical data:

Standards:

DIN 43620**VDE 0636-201**

Breaking capacity:

~200kA

Rated voltage:

~500V

Characteristic:

gR

Application:

Fuse-links type M are applied in fuse base (for example PK).

Size	In (A)	Type (visual indicator with grip for microswitch NVS 5)	Code No.	Operating I ² t-value (A ² s)	Power dissipation (W)	Char.	Packaging (pcs)	Weight (g)
00C	6	M00CUQ2/6A/500V	004711203	45	7	gR	3/60	130
	10	M00CUQ2/10A/500V	004711204	60	8	gR	3/60	130
	16	M00CUQ2/16A/500V	004711205	86	9	gR	3/60	130
	20	M00CUQ2/20A/500V	004711206	165	10,9	gR	3/60	130
	25	M00CUQ2/25A/500V	004711207	300	13,4	gR	3/60	130
	32	M00CUQ2/32A/500V	004711208	450	14,3	gR	3/60	130
	35	M00CUQ2/35A/500V	004711209	670	15	gR	3/60	130
	40	M00CUQ2/40A/500V	004711210	1.000	16,2	gR	3/60	130
	50	M00CUQ2/50A/500V	004711211	1.500	17,5	gR	3/60	130
	63	M00CUQ2/63A/500V	004711212	2.200	20	gR	3/60	130
	80	M00CUQ2/80A/500V	004711213	3.300	23,1	gR	3/60	130
	100	M00CUQ2/100A/500V	004711214	7.200	26,4	gR	3/60	130
	125	M00CUQ2/125A/500V	004711215	10.000	34	gR	3/60	130
	160	M00CUQ2/160A/500V	004711216	21.000	40,1	gR	3/60	130
1	35	M1UQ2/35A/500V	004713209	670	15	gR	3	420
	40	M1UQ2/40A/500V	004713210	1.000	16,2	gR	3	420
	50	M1UQ2/50A/500V	004713211	1.500	17,5	gR	3	420
	63	M1UQ2/63A/500V	004713212	2.200	20	gR	3	420
	80	M1UQ2/80A/500V	004713213	3.300	23,1	gR	3	420
	100	M1UQ2/100A/500V	004713214	7.200	26,4	gR	3	420
	125	M1UQ2/125A/500V	004713215	10.000	34	gR	3	420
	160	M1UQ2/160A/500V	004713216	21.000	40,1	gR	3	420
	200	M1UQ2/200A/500V	004713217	30.000	43,8	gR	3	420
	224	M1UQ2/224A/500V	004713218	41.000	48,5	gR	3	420
2	250	M1UQ2/250A/500V	004713219	52.000	53	gR	3	420
	125	M2UQ2/125A/500V	004714215	10.000	34	gR	3	660
	160	M2UQ2/160A/500V	004714216	21.000	40,1	gR	3	660
	200	M2UQ2/200A/500V	004714217	30.000	43,8	gR	3	660
	224	M2UQ2/224A/500V	004714218	41.000	48,5	gR	3	660
	250	M2UQ2/250A/500V	004714219	52.000	53	gR	3	660
	315	M2UQ2/315A/500V	004714221	82.000	63	gR	3	660
	350	M2UQ2/350A/500V	004714222	110.000	66	gR	3	660
3	400	M2UQ2/400A/500V	004714223	160.000	70	gR	3	660
	250	M3UQ2/250A/500V	004715219	52.000	53	gR	3	870
	315	M3UQ2/315A/500V	004715221	82.000	63	gR	3	870
	350	M3UQ2/350A/500V	004715222	110.000	66	gR	3	870
	400	M3UQ2/400A/500V	004715223	160.000	70	gR	3	870
	425	M3UQ2/425A/500V	004715224	200.000	75	gR	3	870
	500	M3UQ2/500A/500V	004715226	260.000	96	gR	3	870
4	630	M3UQ2/630A/500V	004715228	340.000	135	gR	3	870
	800	S4UQ2/800A/500V	004716130	620.000	164	gR	1	2350
	1000	S4UQ2/1000A/500V	004716132	1.150.000	188	gR	1	2350
	1250	S4UQ2/1250A/500V	004716133	2.000.000	246	gR	1	2350
4a	800	M4aUQ2/800A/500V	004717230	620.000	164	gR	1	2700
	1000	M4aUQ2/1000A/500V	004717232	1.150.000	188	gR	1	2700
	1250	M4aUQ2/1250A/500V	004717233	2.000.000	246	gR	1	2700
	1500	M4aUQ2/1500A/500V	004717235	3.800.000	310	gR	1	2700

Note: for size 1,2 modify hand of NVS5

M00CUQ2/125A/500V



M1UQ2/200A/500V



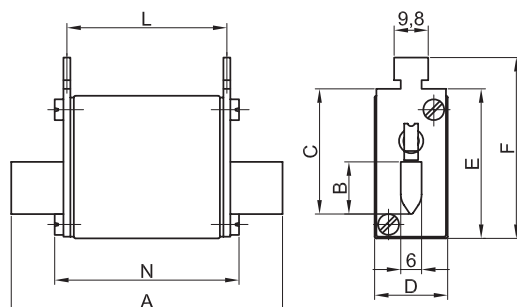
ULTRA QUICK

SERIES
UQ2 QUICK ACTING

TYPES
M

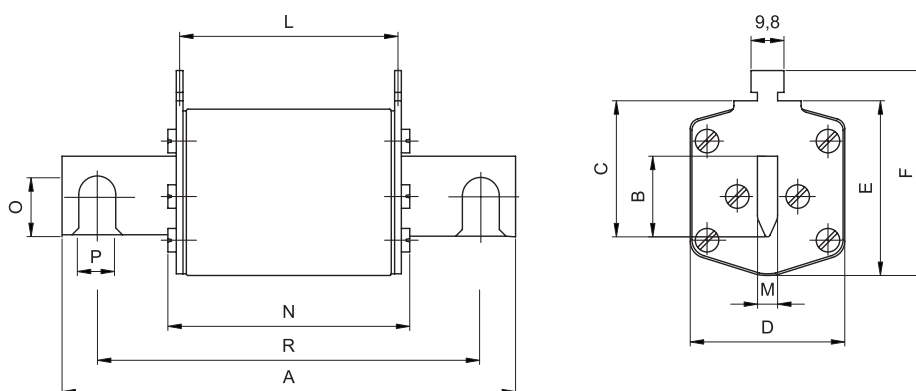
RATED VOLTAGE
~500V

Dimensions:



Size	A	B	C	D	E	F	L	N
00C	78	15	35	21	42	52	46	53

Dimensions:



Size	A	B	C	D	E	F	L	N	M	O	P	R
1	135	24	40	46	52	62	65	73	6	-	-	-
2	150	30	48	54	61	71	65	73	6	-	-	-
3	150	37	60	64	74	84	65	73	6	-	-	-
4	200	50	87	95	112	122	65	78	8	32	16	150
4a	200	50	85	95	112	122	87	97	6	-	-	-

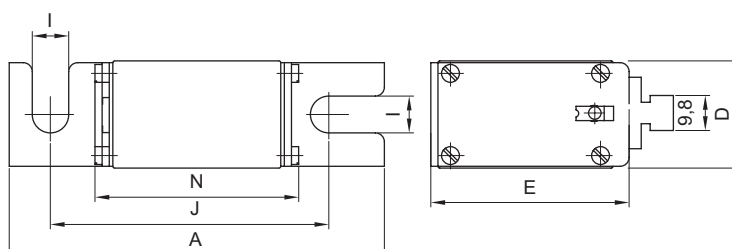
Technical data on page 84

SERIES UQ2 QUICK ACTING	TYPES S80mm	RATED VOLTAGE ~500V
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Technical data:			Application:
Standards: DIN 43653 IEC 60269-4-1	Breaking capacity: ~200kA Rated voltage: ~500V	Characteristic: gR	Fuse-links type S of size 00C is applied in fuse base US00-1/80 and mounted by screws to busbars.

Size	In (A)	Type (visual indicator with grip for microswitch NVS 5)	Code No.	Operating I ² t-value (A ² s)	Power dissipation (W)	Char.	Packaging (pcs)	Weight (g)
00C	16	S00CUQ2/80/16A/500V	004711105	86	9	gR	3	120
	20	S00CUQ2/80/20A/500V	004711106	165	10,9	gR	3	120
	25	S00CUQ2/80/25A/500V	004711107	300	13,4	gR	3	120
	32	S00CUQ2/80/32A/500V	004711108	450	14,3	gR	3	120
	35	S00CUQ2/80/35A/500V	004711109	670	15	gR	3	120
	40	S00CUQ2/80/40A/500V	004711110	1.000	16,2	gR	3	120
	50	S00CUQ2/80/50A/500V	004711111	1.500	17,5	gR	3	120
	63	S00CUQ2/80/63A/500V	004711112	2.200	20	gR	3	120
	80	S00CUQ2/80/80A/500V	004711113	3.300	23,1	gR	3	120
	100	S00CUQ2/80/100A/500V	004711114	7.200	26,4	gR	3	120
	125	S00CUQ2/80/125A/500V	004711115	10.000	34	gR	3	120
	160	S00CUQ2/80/160A/500V	004711116	21.000	40,1	gR	3	120

S00CUQ2/80/125A/500V

**Dimensions:**

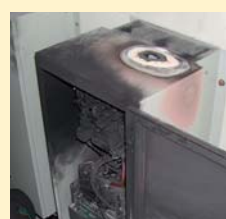
Size	A	D	E	I	J	N
00C	101	21	40	8,5	78	54

remember

Not using fuses for semiconductor protection could have catastrophic consequences.

Power supply and IGBT output at frequency inverters (low and medium power) are encapsulated. Removing components such as diode, transistor is impossible. You must buy a new device!

To prevent unnecessary damage, you must confirm that your device includes high-speed fusing at the time of installation!



SERIES
UQ2 QUICK ACTING

TYPES
S110mm

RATED VOLTAGE
~ 500V

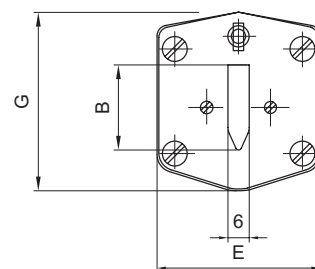
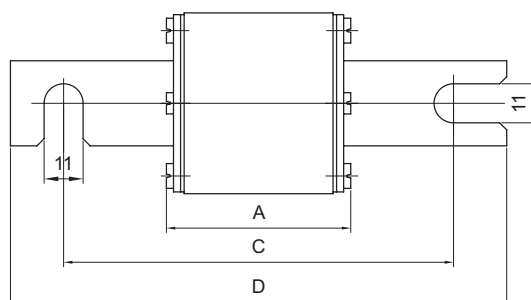
Technical data:			Application:
Standards: DIN 43653 IEC 60269-4-1	Breaking capacity: ~ 200kA Rated voltage: ~ 500V	Characteristic: gR	Fuse-links type S 110mm of size 1, 2, 3 are applied in universal fuse base US1.3-1/80-110 and mounted by screws to busbars.

S1UQ2/110/400A/500V



Size	In (A)	Type with visual indicator	Code No.	Operating I ² t-value (A ² s)	Power dissipation (W)	Char.	Packaging (pcs)	Weight (g)
1	35	S1UQ2/110/35A/500V	004713109	670	15	gR	1	390
	40	S1UQ2/110/40A/500V	004713110	1.000	16,2	gR	1	390
	50	S1UQ2/110/50A/500V	004713111	1.500	17,5	gR	1	390
	63	S1UQ2/110/63A/500V	004713112	2.200	20	gR	1	390
	80	S1UQ2/110/80A/500V	004713113	3.300	23,1	gR	1	390
	100	S1UQ2/110/100A/500V	004713114	7.200	26,4	gR	1	390
	125	S1UQ2/110/125A/500V	004713115	10.000	34	gR	1	390
	160	S1UQ2/110/160A/500V	004713116	21.000	40,1	gR	1	390
	200	S1UQ2/110/200A/500V	004713117	30.000	43,8	gR	1	390
	224	S1UQ2/110/224A/500V	004713118	41.000	48,5	gR	1	390
2	250	S1UQ2/110/250A/500V	004713119	52.000	53	gR	1	390
	125	S2UQ2/110/125A/500V	004714115	10.000	34	gR	3	510
	160	S2UQ2/110/160A/500V	004714116	21.000	40,1	gR	3	510
	200	S2UQ2/110/200A/500V	004714117	30.000	43,8	gR	3	510
	224	S2UQ2/110/224A/500V	004714118	41.000	48,5	gR	3	510
	250	S2UQ2/110/250A/500V	004714119	52.000	53	gR	3	510
	315	S2UQ2/110/315A/500V	004714121	82.000	63	gR	3	510
	350	S2UQ2/110/350A/500V	004714122	110.000	66	gR	3	510
3	400	S2UQ2/110/400A/500V	004714123	160.000	70	gR	3	510
	250	S3UQ2/110/250A/500V	004715119	52.000	53	gR	3	830
	315	S3UQ2/110/315A/500V	004715121	82.000	63	gR	3	830
	350	S3UQ2/110/350A/500V	004715122	110.000	66	gR	3	830
	400	S3UQ2/110/400A/500V	004715123	160.000	70	gR	3	830
	425	S3UQ2/110/425A/500V	004715124	200.000	70	gR	3	830
	500	S3UQ2/110/500A/500V	004715126	260.000	96	gR	3	830
	630	S3UQ2/110/630A/500V	004715128	340.000	135	gR	3	830

Dimensions:



Size	A	B	C	D	E	G
1	72	24	110	140	46	51
2	72	30	110	140	54	59
3	72	37	110	140	64	70

Technical data on page 84

SERIES

UQ2 QUICK ACTING

TYPES

G

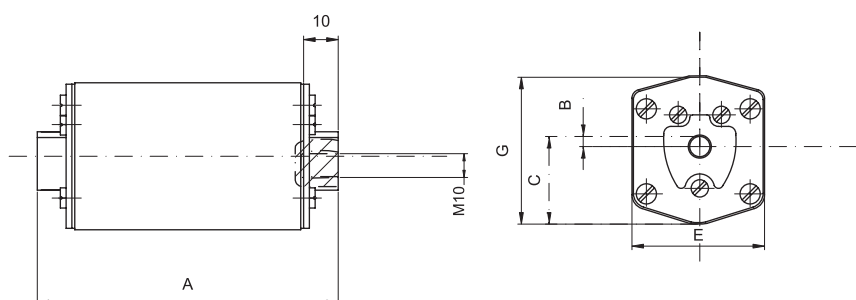
RATED VOLTAGE

~500V**Technical data:**Standards:
IEC 60269-4-1Breaking capacity:
~200kA
Rated voltage:
~500VCharacteristic:
gR**Application:**

Fuse-links type G has threaded studs so fuses are mounted by special screws to busbars.

Size	In (A)	Type with visual indicator	Code No.	Operating I ² t-value (A ² s)	Power dissipation (W)	Char.	Packaging (pcs)	Weight (g)
1	35	G1UQ2/35A/500V	004713509	670	15	gR	1	360
	40	G1UQ2/40A/500V	004713510	1.000	16,2	gR	1	360
	50	G1UQ2/50A/500V	004713511	1.500	17,5	gR	1	360
	63	G1UQ2/63A/500V	004713512	2.200	20	gR	1	360
	80	G1UQ2/80A/500V	004713513	3.300	23,1	gR	1	360
	100	G1UQ2/100A/500V	004713514	7.200	26,4	gR	1	360
	125	G1UQ2/125A/500V	004713515	10.000	34	gR	1	360
	160	G1UQ2/160A/500V	004713516	21.000	40,1	gR	1	360
	200	G1UQ2/200A/500V	004713517	30.000	43,8	gR	1	360
	224	G1UQ2/224A/500V	004713518	41.000	48,5	gR	1	360
	250	G1UQ2/250A/500V	004713519	52.000	53	gR	1	360
2	125	G2UQ2/125A/500V	004714515	10.000	34	gR	1	520
	160	G2UQ2/160A/500V	004714516	21.000	40,1	gR	1	520
	200	G2UQ2/200A/500V	004714517	30.000	43,8	gR	1	520
	224	G2UQ2/224A/500V	004714518	41.000	48,5	gR	1	520
	250	G2UQ2/250A/500V	004714519	52.000	53	gR	1	520
	315	G2UQ2/315A/500V	004714521	82.000	63	gR	1	520
	350	G2UQ2/350A/500V	004714522	110.000	66	gR	1	520
	400	G2UQ2/400A/500V	004714523	160.000	70	gR	1	520
3	250	G3UQ2/250A/500V	004715519	52.000	53	gR	1	800
	315	G3UQ2/315A/500V	004715521	82.000	63	gR	1	800
	350	G3UQ2/350A/500V	004715522	110.000	66	gR	1	800
	400	G3UQ2/400A/500V	004715523	160.000	70	gR	1	800
	425	G3UQ2/425A/500V	004715524	200.000	70	gR	1	800
	500	G3UQ2/500A/500V	004715526	260.000	96	gR	1	800
	630	G3UQ2/630A/500V	004715528	340.000	135	gR	1	800

G2UQ2/350A/500V

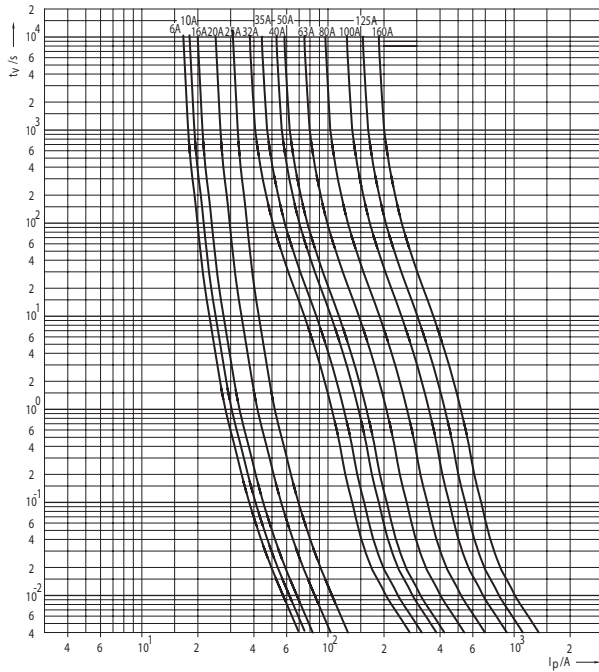
**Dimensions:**

Size	A	B	C	E	G
1	85	8,5	25	46	50
2	72	2	29,5	54	59
3	83	2	34	64	70

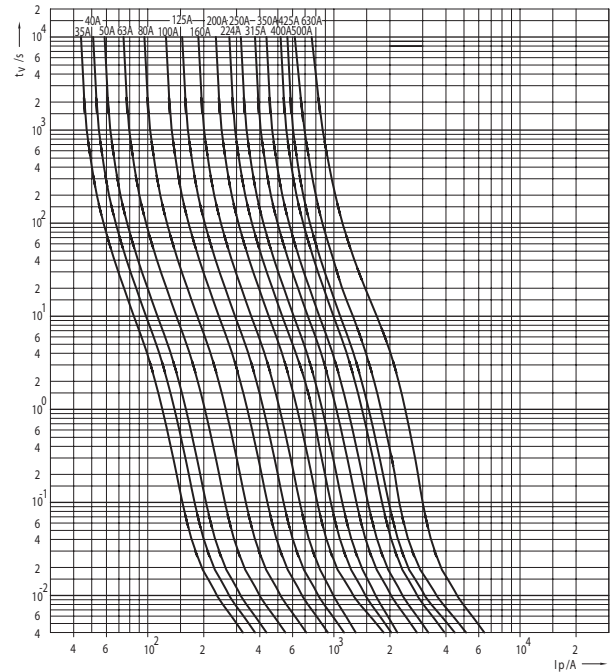
SERIES
UQ2

RATED VOLTAGE
~500V

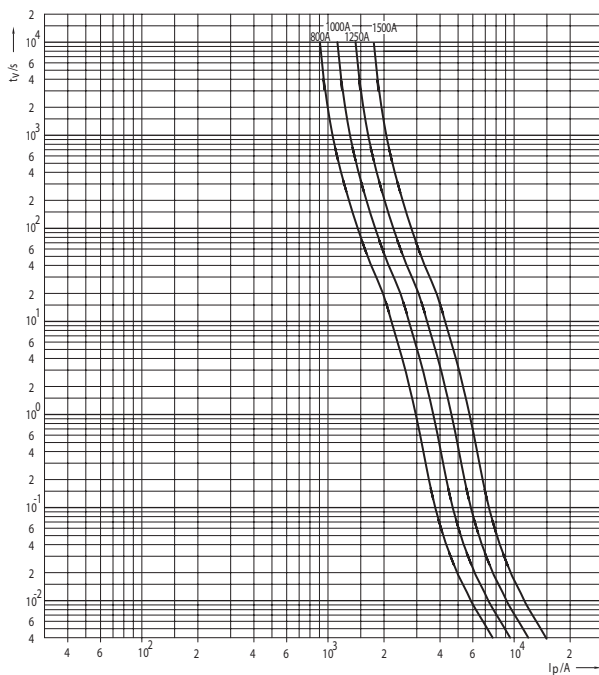
Time/current characteristics of fuse-links Ultra Quick MUQ2, SUQ2 - size 00C



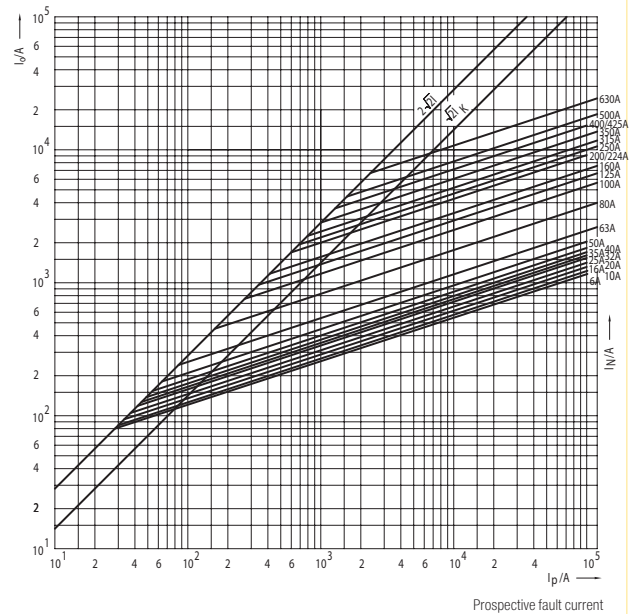
Time/current characteristics of fuse-links Ultra Quick MUQ2, SUQ2, GUQ2 - size 1, 2, 3



Time/current characteristics of fuse-links Ultra Quick MUQ2, SUQ2 - size 4 and 4a



Cut-off characteristics of fuse-links Ultra Quick MUQ2, SUQ2, GUQ2 - size 00C, 1, 2, 3



CHARACTERISTICS

SYSTEM **NV/NH**

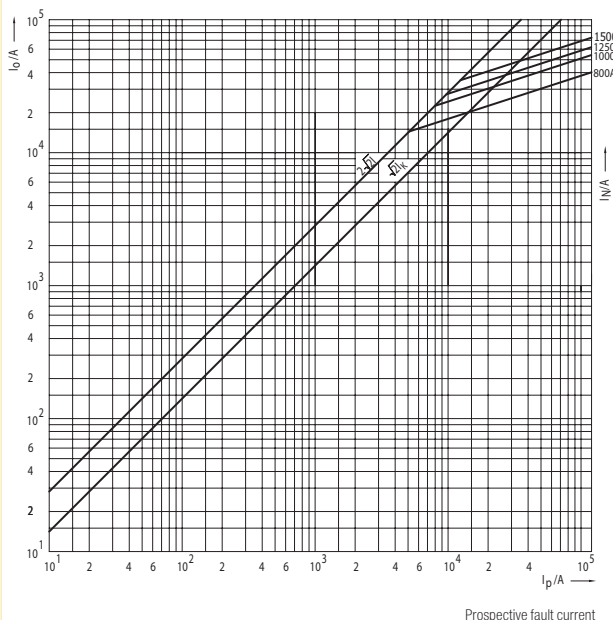
SERIES

UQ2

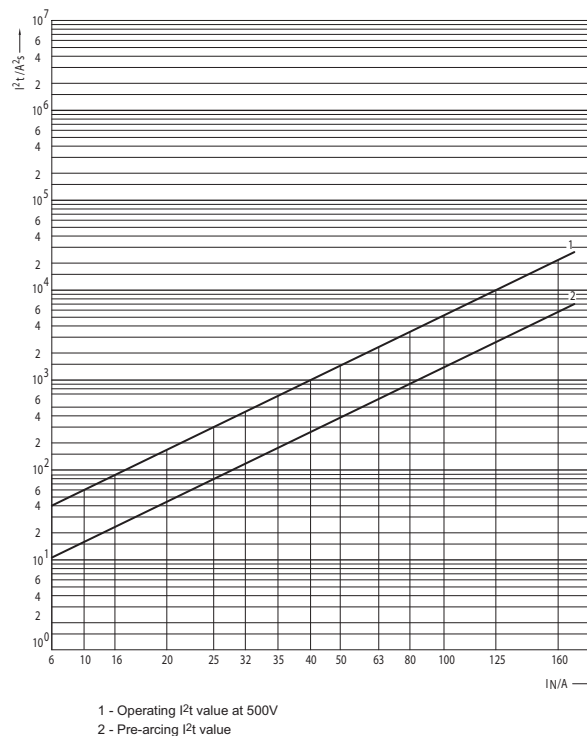
RATED VOLTAGE

~500V

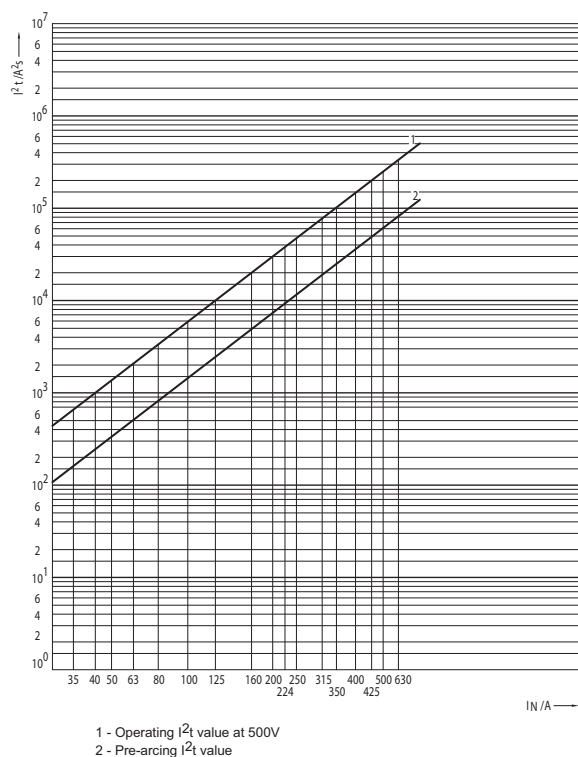
Cut-off characteristics of fuse-links Ultra Quick MUQ2, SUQ2 - size 4 and 4a



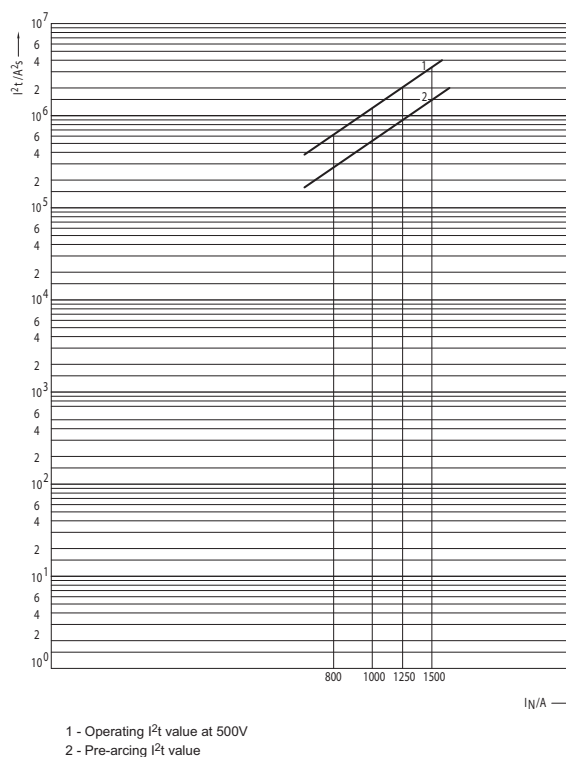
Joule Integral (I^2t) for Ultra Quick MUQ2, SUQ2 - size 00C



Joule Integral (I^2t) for Ultra Quick MUQ2, SUQ2 - size 1, 2, 3



Joule Integral (I^2t) for Ultra Quick MUQ2, SUQ2 - size 4 and 4a

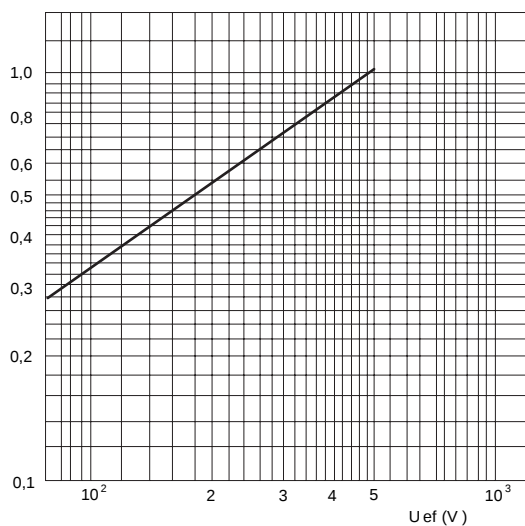


ULTRA QUICK

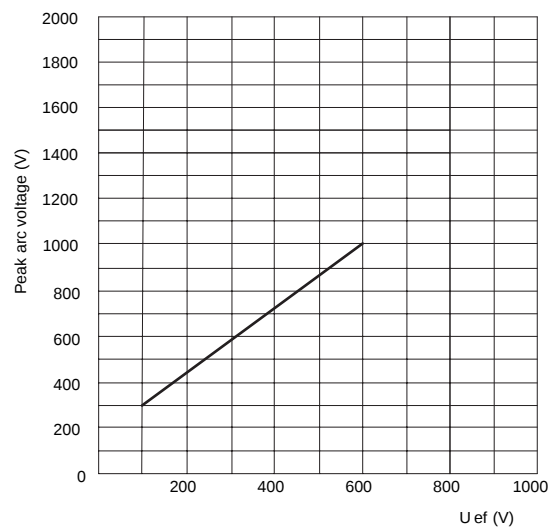
SERIES
UQ2

RATED VOLTAGE
~ 500V

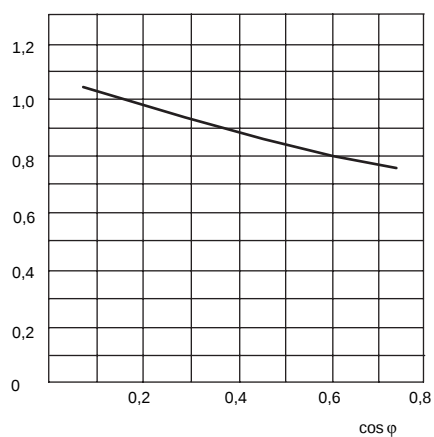
Conversion factor for total Joule integral



Maximum arc voltage accuring



Correction factor for performance factor $\cos\varphi \approx 0,15$ for operating I^2t values



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 **NV/NH**

SERIES

UQ2

RATED VOLTAGE

~ 500V

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 $I^2t \sim 230V$	Operating Joule Integral $I^2t \sim 400V$	Operating Joule Integral $I^2t \sim 500V$
	A	W	A ² s	A ² s	A ² s	A ² s
M00C, S00C	6	7,00	10	24	36	45
	10	8,00	15	32	48	60
	16	9,00	23	47	69	86
	20	10,9	44	91	132	165
	25	13,4	80	165	240	300
	32	14,3	120	248	360	450
M1, S1, G1	35	15,0	160	369	536	670
	40	16,2	250	550	800	1.000
	50	17,5	400	825	1.200	1.500
	63	20,0	600	1.210	1.760	2.200
	80	23,1	900	1.815	2.640	3.300
M2, S2, G2	100	26,4	1.500	3.960	5.760	7.200
	125	34,0	2.500	5.500	8.000	10.000
	160	40,1	6.000	11.550	16.800	21.000
	200	43,8	7.900	16.500	24.000	30.000
M3, S3, G3	224	48,5	10.000	22.550	32.800	41.000
	250	53	12.500	28.600	41.600	52.000
	315	63	20.000	45.100	65.600	82.000
	350	66	26.000	60.500	88.000	110.000
	425	70	40.000	88.000	128.000	200.000
M4a, S4	500	96	50.000	110.000	160.000	260.000
	630	135	66.000	143.000	208.000	340.000
	800	164	250.000	341.000	496.000	620.000
	1000	188	580.000	632.500	920.000	1.150.000
	1250	246	900.000	1.100.000	1.600.000	2.000.000
	1500	310	1.600.000	2.090.000	3.040.000	3.800.000

SERIES
UQ2 QUICK ACTING

TYPES
M

RATED VOLTAGE
~ 690V

Technical data:

Standards:
DIN 43620
VDE 0636-201

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

Characteristic:
gR

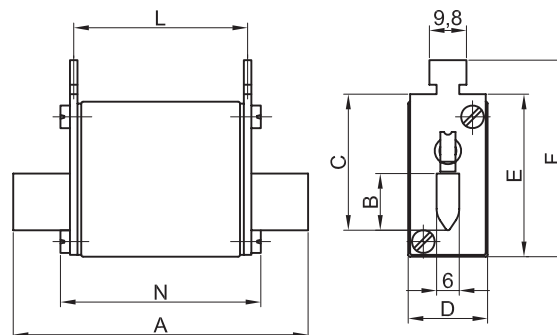
Application:

Fuse-links type M are applied in fuse base (for example PK).

M00CUQ2/125A/690V



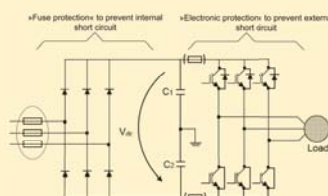
Size	In (A)	Type (visual indicator with grip for microswitch NVS 5)	Code No.	Operating I ² t-value (A ² s)	Power dissipation (W)	Char.	Packaging (pcs)	Weight (g)
00C	10	M00CUQ2/10A/690V	004721204	100	6,5	gR	3/60	140
	16	M00CUQ2/16A/690V	004721205	220	8	gR	3/60	140
	20	M00CUQ2/20A/690V	004721206	320	9,5	gR	3/60	140
	25	M00CUQ2/25A/690V	004721207	600	11,8	gR	3/60	140
	32	M00CUQ2/32A/690V	004721208	920	12,5	gR	3/60	140
	35	M00CUQ2/35A/690V	004721209	920	13,1	gR	3/60	140
	40	M00CUQ2/40A/690V	004721210	1.400	14,1	gR	3/60	140
	50	M00CUQ2/50A/690V	004721211	2.250	15,6	gR	3/60	140
	63	M00CUQ2/63A/690V	004721212	3.600	17,8	gR	3/60	140
	80	M00CUQ2/80A/690V	004721213	6.200	20,6	gR	3/60	140
	100	M00CUQ2/100A/690V	004721214	10.000	23,7	gR	3/60	140
	125	M00CUQ2/125A/690V	004721215	13.000	30	gR	3/60	140
	160	M00CUQ2/160A/690V	004721216	23.000	35,9	gR	3/60	140

Dimensions:

Size	A	B	C	D	E	F	L	N
00C	78	15	35	21	42	52	46	53

remember

In the past, all soft-starters and drives incorporated internal high-speed fusing. As these devices have gotten smaller, cheaper, many manufacturers of medium to low power motor controllers have eliminated internal fusing. Adequate electrical protection is now in hand of designers.



Technical data on page 88

SERIES

UQ2 QUICK ACTING

TYPES

M

RATED VOLTAGE

~690V**Technical data:**

Standards:

DIN 43620**VDE 0636-201**

Breaking capacity:

~200kA

Rated voltage:

~690V

Characteristic:

gR**Application:**

Fuse-links type M are applied in fuse base (for example PK).

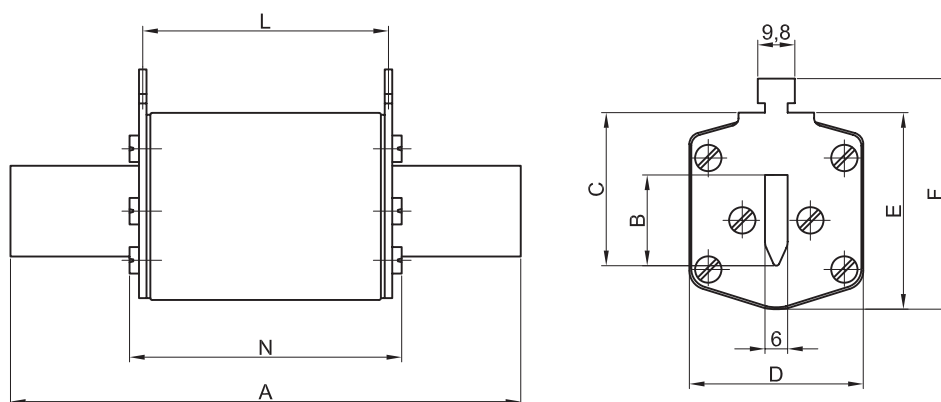
Size	In (A)	Type (visual indicator with grip for microswitch NVS 5)	Code No.	Operating I ² t-value (A ² s)	Power dissipation (W)	Char.	Packaging (pcs)	Weight (g)
1	35	M1UQ2/35A/690V	004723209	920	13,1	gR	3	420
	40	M1UQ2/40A/690V	004723210	1.400	14,1	gR	3	420
	50	M1UQ2/50A/690V	004723211	2.250	15,6	gR	3	420
	63	M1UQ2/63A/690V	004723212	3.600	17,8	gR	3	420
	80	M1UQ2/80A/690V	004723213	6.200	20,6	gR	3	420
	100	M1UQ2/100A/690V	004723214	10.000	23,7	gR	3	420
	125	M1UQ2/125A/690V	004723215	13.000	30	gR	3	420
	160	M1UQ2/160A/690V	004723216	23.000	35,9	gR	3	420
	200	M1UQ2/200A/690V	004723217	47.000	31,5	gR	3	420
	224	M1UQ2/224A/690V	004723218	60.000	36,8	gR	3	420
2	250	M1UQ2/250A/690V	004723219	70.000	42,7	gR	3	420
	125	M2UQ2/125A/690V	004724215	13.000	30	gR	3	660
	160	M2UQ2/160A/690V	004724216	23.000	35,9	gR	3	660
	200	M2UQ2/200A/690V	004724217	47.000	31,5	gR	3	660
	224	M2UQ2/224A/690V	004724218	60.000	36,8	gR	3	660
	250	M2UQ2/250A/690V	004724219	70.000	42,7	gR	3	660
	315	M2UQ2/315A/690V	004724221	110.000	57	gR	3	660
	350	M2UQ2/350A/690V	004724222	150.000	67	gR	3	660
3	400	M2UQ2/400A/690V	004724223	170.000	76	gR	3	660
	250	M3UQ2/250A/690V	004725219	70.000	42,7	gR	3	870
	315	M3UQ2/315A/690V	004725221	110.000	57	gR	3	870
	350	M3UQ2/350A/690V	004725222	150.000	67	gR	3	870
	400	M3UQ2/400A/690V	004725223	170.000	76	gR	3	870
	425	M3UQ2/425A/690V	004725224	200.000	84	gR	3	870
	500	M3UQ2/500A/690V	004725226	240.000	102	gR	3	870
	630	M3UQ2/630A/690V	004725228	400.000	138	gR	3	870

M2UQ2/250A/690V



ULTRA QUICK

Note: for size 1,2 modify hand of NVS5

Dimensions:

Size	A	B	C	D	E	F	L	N
1	135	24	40	46	52	62	65	73
2	150	30	48	54	61	71	65	73
3	150	37	60	64	74	84	65	73

SERIES
UQ2 QUICK ACTING

TYPES
S80mm

RATED VOLTAGE
~ 690V

Technical data:

Standards:
DIN 43653
IEC 60269-4-1

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

Characteristic:
gR

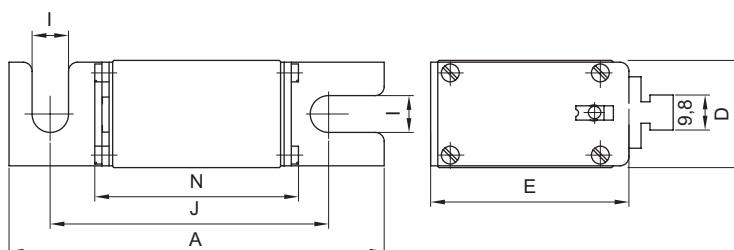
Application:

Fuse-links type S of size 00C is applied in fuse base US00-1/80 and mounted by screws to busbars.

S00CUQ2/80/125A/690V



Size	In (A)	Type (visual indicator with grip for microswitch NVS 5)	Code No.	Operating I ² t-value (A ² s)	Power dissipation (W)	Char.	Packaging (pcs)	Weight (g)
00C	10	S00CUQ2/80/10A/690V	004721104	100	6,5	gR	3	140
	16	S00CUQ2/80/16A/690V	004721105	220	8	gR	3	140
	20	S00CUQ2/80/20A/690V	004721106	320	9,5	gR	3	140
	25	S00CUQ2/80/25A/690V	004721107	600	11,8	gR	3	140
	32	S00CUQ2/80/32A/690V	004721108	920	12,5	gR	3	140
	35	S00CUQ2/80/35A/690V	004721109	920	13,1	gR	3	140
	40	S00CUQ2/80/40A/690V	004721110	1.400	14,1	gR	3	140
	50	S00CUQ2/80/50A/690V	004721111	2.250	15,6	gR	3	140
	63	S00CUQ2/80/63A/690V	004721112	3.600	17,8	gR	3	140
	80	S00CUQ2/80/80A/690V	004721113	6.200	20,6	gR	3	140
	100	S00CUQ2/80/100A/690V	004721114	10.000	23,7	gR	3	140
	125	S00CUQ2/80/125A/690V	004721115	13.000	30	gR	3	140
	160	S00CUQ2/80/160A/690V	004721116	23.000	35,9	gR	3	140

Dimensions:

Size	A	D	E	I	J	N
00C	101	21	40	8,5	78	54

remember

One of the fastest growing markets for fuses is protection of semiconductor devices !!!

Technical data on page 88

SERIES

UQ2 QUICK ACTING

TYPES

S110mm

RATED VOLTAGE

~690V**Technical data:**

Standards:

DIN 43653**IEC 60269-4-1**

Breaking capacity:

~200kA

Rated voltage:

~690V

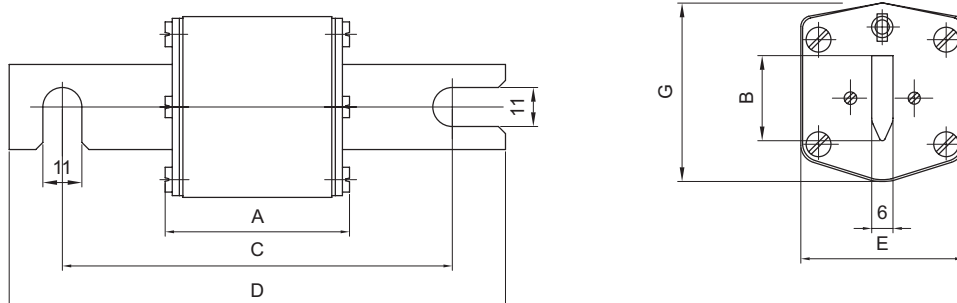
Characteristic:

gR**Application:**

Fuse-links type S 110mm of size 1, 2, 3 are applied in universal fuse base US1..3-1/80-110 and mounted by screws to busbars.

Size	In (A)	Type with visual indicator	Code No.	Operating I ² t-value (A ² s)	Power dissipation (W)	Char.	Packaging (pcs)	Weight (g)
1	80	S1UQ2/110/80A/690V	004723113	6.200	9,5	gR	1	390
	100	S1UQ2/110/100A/690V	004723114	10.000	12,7	gR	1	390
	125	S1UQ2/110/125A/690V	004723115	13.000	17,6	gR	1	390
	160	S1UQ2/110/160A/690V	004723116	23.000	23,8	gR	1	390
	200	S1UQ2/110/200A/690V	004723117	47.000	31,5	gR	1	390
	224	S1UQ2/110/224A/690V	004723118	60.000	36,8	gR	1	390
	250	S1UQ2/110/250A/690V	004723119	70.000	42,7	gR	1	390
2	125	S2UQ2/110/125A/690V	004724115	13.000	17,6	gR	3	510
	160	S2UQ2/110/160A/690V	004724116	23.000	23,8	gR	3	510
	200	S2UQ2/110/200A/690V	004724117	47.000	31,5	gR	3	510
	224	S2UQ2/110/224A/690V	004724118	60.000	36,8	gR	3	510
	250	S2UQ2/110/250A/690V	004724119	70.000	42,7	gR	3	510
	315	S2UQ2/110/315A/690V	004724121	110.000	57	gR	3	510
	350	S2UQ2/110/350A/690V	004724122	150.000	67	gR	3	510
3	400	S2UQ2/110/400A/690V	004724123	170.000	76	gR	3	510
	250	S3UQ2/110/250A/690V	004725119	70.000	42,7	gR	3	830
	315	S3UQ2/110/315A/690V	004725121	110.000	57	gR	3	830
	350	S3UQ2/110/350A/690V	004725122	150.000	67	gR	3	830
	400	S3UQ2/110/400A/690V	004725123	170.000	76	gR	3	830
	425	S3UQ2/110/425A/690V	004725124	200.000	84	gR	3	830
	500	S3UQ2/110/500A/690V	004725126	240.000	102	gR	3	830
	630	S3UQ2/110/630A/690V	004725128	400.000	138	gR	3	830

S1UQ2/110/250A/690V

**Dimensions:**

Size	A	B	C	D	E	G
1	72	24	110	140	46	51
2	72	30	110	140	54	59
3	72	37	110	140	64	70

SERIES
UQ2 QUICK ACTING

TYPES
G

RATED VOLTAGE
~ 690V

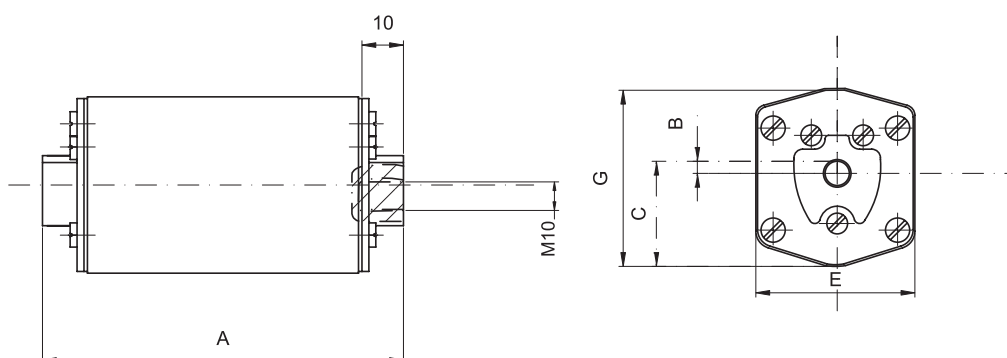
Technical data:			Application:
Standards: IEC 60269-4-1	Breaking capacity: ~ 200kA Rated voltage: ~ 690V	Characteristic: gR	Fuse-links type G has threaded studs so fuses are mounted by special screws to busbars.

G2UQ2/250A/690V



Size	In (A)	Type with visual indicator	Code No.	Operating I ² t-value (A ² s)	Power dissipation (W)	Char.	Packaging (pcs)	Weight (g)
1	80	G1UQ2/80A/690V	004723513	6.200	9,5	gR	1	360
	100	G1UQ2/100A/690V	004723514	10.000	12,7	gR	1	360
	125	G1UQ2/125A/690V	004723515	13.000	17,6	gR	1	360
	160	G1UQ2/160A/690V	004723516	23.000	23,8	gR	1	360
	200	G1UQ2/200A/690V	004723517	47.000	31,5	gR	1	360
	224	G1UQ2/224A/690V	004723518	60.000	36,8	gR	1	360
	250	G1UQ2/250A/690V	004723519	70.000	42,7	gR	1	360
2	125	G2UQ2/125A/690V	004724515	13.000	17,6	gR	1	520
	160	G2UQ2/160A/690V	004724516	23.000	23,8	gR	1	520
	200	G2UQ2/200A/690V	004724517	47.000	31,5	gR	1	520
	224	G2UQ2/224A/690V	004724518	60.000	36,8	gR	1	520
	250	G2UQ2/250A/690V	004724519	70.000	42,7	gR	1	520
	315	G2UQ2/315A/690V	004724521	110.000	57	gR	1	520
	350	G2UQ2/350A/690V	004724522	150.000	67	gR	1	520
3	400	G2UQ2/400A/690V	004724523	170.000	76	gR	1	520
	250	G3UQ2/250A/690V	004725519	70.000	42,7	gR	1	800
	315	G3UQ2/315A/690V	004725521	110.000	57	gR	1	800
	350	G3UQ2/350A/690V	004725522	150.000	67	gR	1	800
	400	G3UQ2/400A/690V	004725523	170.000	76	gR	1	800
	425	G3UQ2/425A/690V	004725525	200.000	84	gR	1	800
	500	G3UQ2/500A/690V	004725526	240.000	102	gR	1	800
	630	G3UQ2/630A/690V	004725528	400.000	138	gR	1	800

Dimensions:

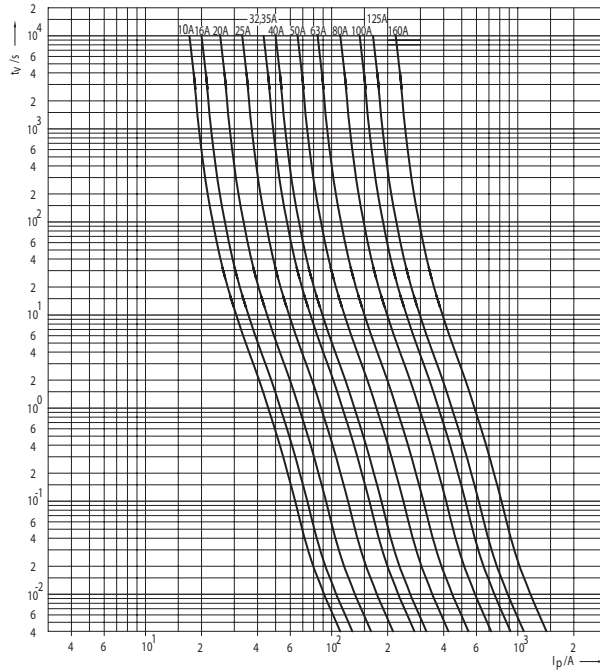


Size	A	B	C	E	G
1	85	8,5	25	46	50
2	72	2	29,5	54	59
3	83	2	34	64	70

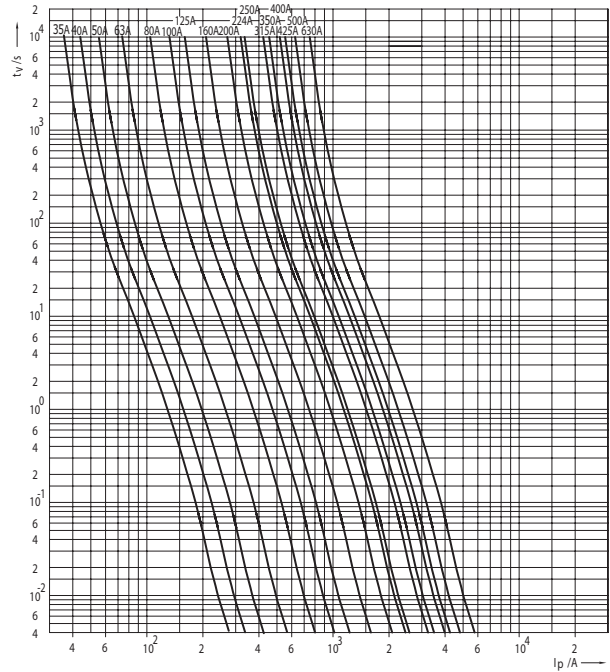
SERIES
UQ2

RATED VOLTAGE
~690V

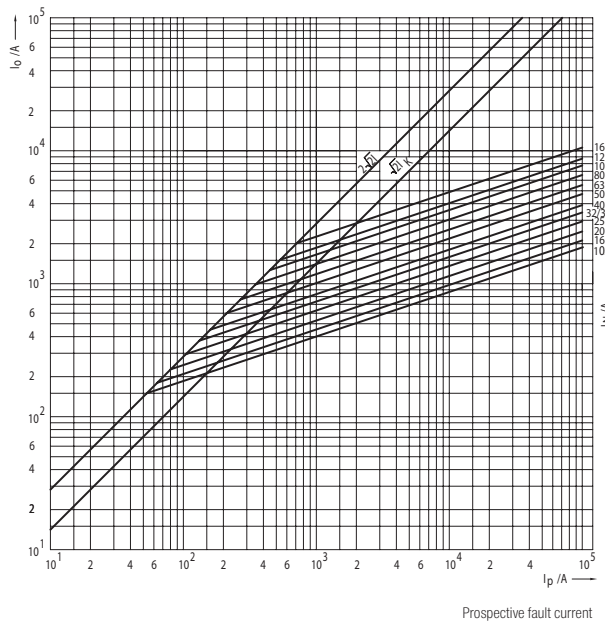
Time/current characteristics of fuse-links Ultra Quick MUQ2, SUQ2 - size 00C



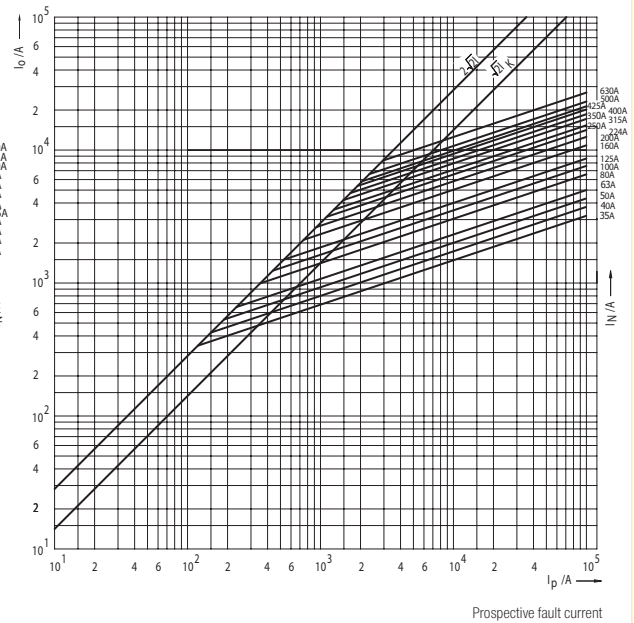
Time/current characteristics of fuse-links Ultra Quick MUQ2, SUQ2, GUQ2 - size 1, 2, 3



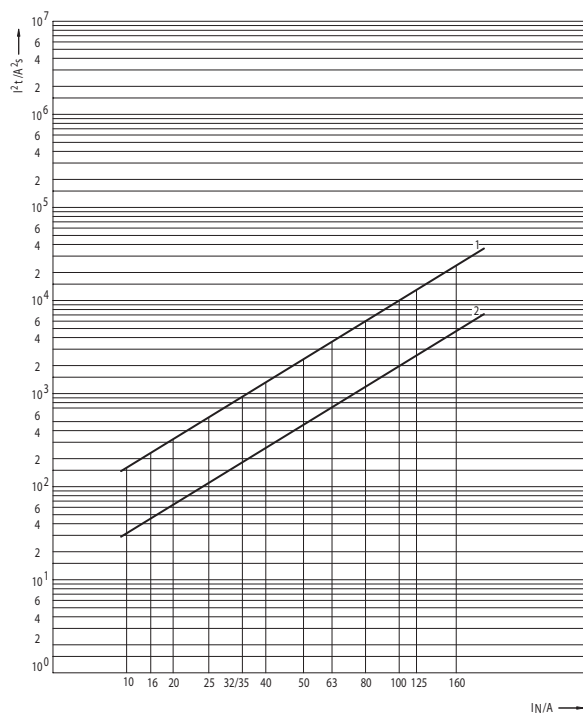
Cut-off characteristics of fuse-links Ultra Quick MUQ2, SUQ2 - size 00C



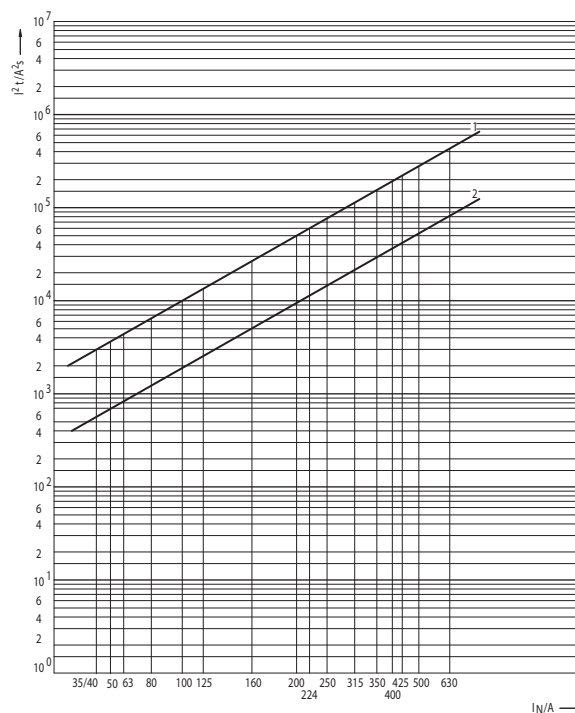
Cut-off characteristics of fuse-links Ultra Quick MUQ2, SUQ2, GUQ2 - size 1, 2, 3



CHARACTERISTICS

SYSTEM **NV/NH**SERIES
UQ2RATED VOLTAGE
~ 690VJoule Integral (I^2t) for Ultra Quick MUQ2, SUQ2 - size 00C

1 - Operating I^2t value at 690V
2 - Pre-arcing I^2t value

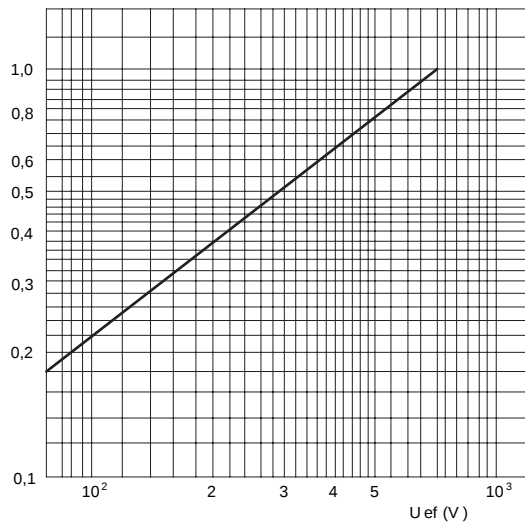
Joule Integral (I^2t) for Ultra Quick MUQ2, SUQ2, GUQ2 - size 1, 2, 3

1 - Operating I^2t value at 690V
2 - Pre-arcing I^2t value

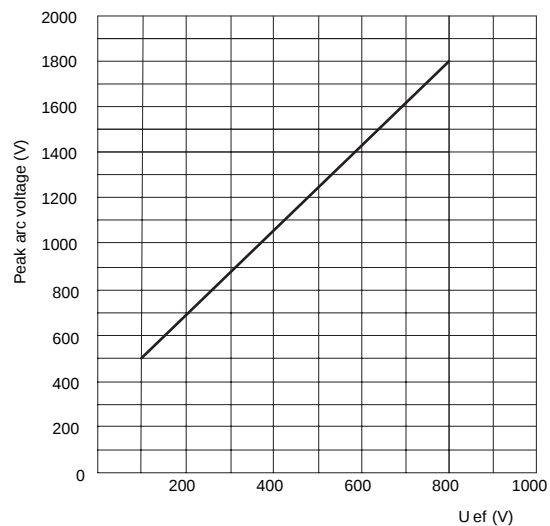
SERIES
UQ2

RATED VOLTAGE
~ 690V

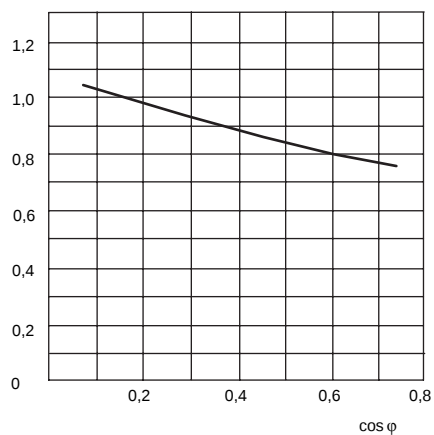
Conversion factor for total Joule integral



Maximum arc voltage occurring



Correction factor for performance factor $\cos \varphi \approx 0,15$ for operating I^2t values



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 **NV/NH**

SERIES

UQ2

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 $I^2t \sim 230V$	Operating Joule Integral $I^2t \sim 400V$	Operating Joule Integral $I^2t \sim 500V$	Operating Joule Integral $I^2t \sim 690V$
	A	W	A ² s	A ² s	A ² s	A ² s	A ² s
MOOC, SOOC	10	6,50	20	43	63	80	100
	16	7,93	42	95	139	176	220
	20	9,52	63	138	202	256	320
	25	11,8	110	258	378	480	600
	32	12,5	180	396	580	736	920
	35	13,1	180	396	580	736	920
	40	14,1	250	602	882	1.120	1.400
	50	15,6	449	968	1.418	1.800	2.250
	63	17,8	700	1.548	2.268	2.880	3.600
	80	20,6	1.100	2.666	3.906	4.960	6.200
	100	23,7	2.000	4.300	6.300	8.000	10.000
	125	30,0	2.500	5.590	8.190	10.400	13.000
	160	35,9	4.400	9.890	14.490	18.400	23.000
M1, S1, G1 M2, S2, G2 M3, S3, G3	80	9,52	1.200	2.709	3.969	5.040	6.300
	100	12,7	1.650	4.300	6.300	8.000	10.000
	125	17,6	2.200	5.590	8.190	10.400	13.000
	160	23,8	4.300	9.890	14.490	18.400	23.000
	200	31,5	8.500	20.210	29.610	37.600	47.000
	224	36,8	10.000	25.800	37.800	48.000	60.000
	250	42,7	15.000	30.100	44.100	56.000	70.000
	315	57	20.000	47.300	69.300	88.000	110.000
	350	67	28.000	64.500	94.500	120.000	150.000
	400	76	32.000	73.100	107.100	136.000	170.000
	425	84	40.000	86.000	126.000	160.000	200.000
	500	102	44.000	103.200	151.200	192.000	240.000
	630	138	80.000	172.000	252.000	320.000	400.000

Technical data on page 92

SERIES
UQ2 QUICK ACTING

TYPES
M

RATED VOLTAGE
~ 1200V

Technical data:

Standards:
DIN 43620
VDE 0636-201

Breaking capacity:
~200kA
Rated voltage:
~1200V

Characteristic:
aR

Application:

Fuse-links type M are applied in fuse base (for example PK).

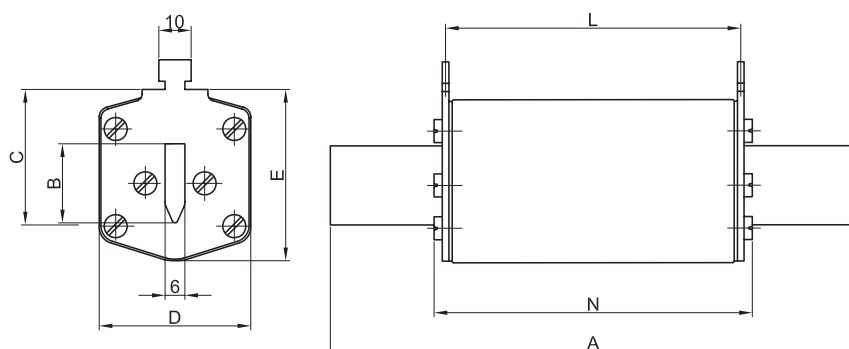
Size	In (A)	Type (visual indicator with a grip for microswitch NVS 5)	Code No.	Operating I ² t-value (A ² s)	Power dissipation (W)	Char.	Packaging (pcs)	Weight (g)
1	80	M1UQ2/80A/1200V	004733213	8.000	35	aR	1	700
	100	M1UQ2/100A/1200V	004733214	12.500	45,9	aR	1	700
	125	M1UQ2/125A/1200V	004733215	20.000	55	aR	1	700
	160	M1UQ2/160A/1200V	004733216	32.000	67	aR	1	700
	200	M1UQ2/200A/1200V	004733217	50.000	84	aR	1	700
	224	M1UQ2/224A/1200V	004733218	63.000	93	aR	1	700
	250	M1UQ2/250A/1200V	004733219	80.000	104	aR	1	700
2	315	M2UQ2/315A/1200V	004734221	120.000	125	aR	1	1050
	350	M2UQ2/350A/1200V	004734222	160.000	141	aR	1	1050
	400	M2UQ2/400A/1200V	004734223	200.000	159	aR	1	1050
3	425	M3UQ2/425A/1200V	004734224	230.000	172	aR	1	1360
	500	M3UQ2/500A/1200V	004734226	320.000	185	aR	1	1360
	630	M3UQ2/630A/1200V	004734228	500.000	198	aR	1	1360

Note: for size 1,2 modify hand of NVS5

M3UQ2/630A/1200V



Dimensions:

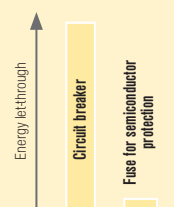


Size	A	B	C	D	E	L	N
1	194	20/24*	40	46	61,5	124	132
2	209	26/30*	48	54	71	124	132
3	209	32/37*	60	64	82	124	132

* The width of the knife is grated in dependence of rating.

remember

For the protection of drives most manufacturers seem to have accepted that circuit breakers despite many advantages are not an option for protection drives. The operational characteristics for circuit breakers are simply too slow, allowing too much energy to pass through.



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

SERIES
UQ2 QUICK ACTING

TYPES
S170mm

RATED VOLTAGE
~ 1200V

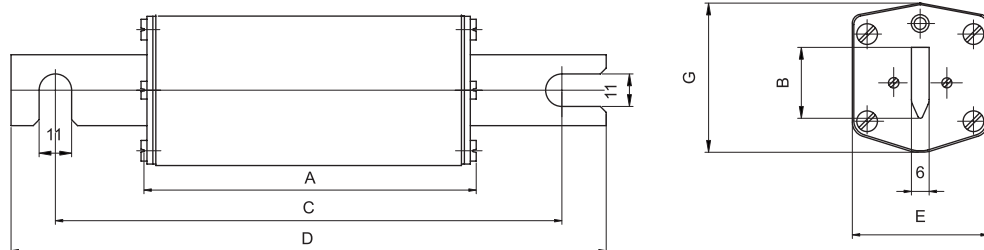
Technical data:			Application:
Standards: DIN 43653 IEC 60269-4-1	Breaking capacity: ~ 200kA Rated voltage: ~ 1200V	Characteristic: aR	Fuse-links type S 170mm of size 1, 2, 3 are mounted by screws to busbars.

S1UQ2/170/200A/1200V



Size	In (A)	Type with visual indicator	Code No.	Operating I ² t-value (A ² s)	Power dissipation (W)	Char.	Packaging (pcs)	Weight (g)
1	80	S1UQ2/170/80A/1200V	004733113	8.000	35	aR	1	770
	100	S1UQ2/170/100A/1200V	004733114	12.500	45,9	aR	1	770
	125	S1UQ2/170/125A/1200V	004733115	20.000	55	aR	1	770
	160	S1UQ2/170/160A/1200V	004733116	32.000	67	aR	1	770
	200	S1UQ2/170/200A/1200V	004733117	50.000	84	aR	1	770
	224	S1UQ2/170/224A/1200V	004733118	63.000	93	aR	1	770
	250	S1UQ2/170/250A/1200V	004733119	80.000	104	aR	1	770
2	315	S2UQ2/170/315A/1200V	004734121	120.000	125	aR	1	1060
	350	S2UQ2/170/350A/1200V	004734122	160.000	141	aR	1	1060
	400	S2UQ2/170/400A/1200V	004734123	200.000	159	aR	1	1060
3	425	S3UQ2/170/425A/1200V	004735124	230.000	172	aR	1	1380
	500	S3UQ2/170/500A/1200V	004735126	320.000	185	aR	1	1380
	630	S3UQ2/170/630A/1200V	004735128	500.000	198	aR	1	1380

Dimensions:



Size	A	B	C	D	E	G
1	132	25	170	200	46	50
2	132	30	170	200	54	59
3	132	37	170	200	64	70

remember

There are statements made by the drives industry itself:

"If there is a fault, something else usually is damaged anyway-so we have to replace the drives".

It is argued that "downtime" it is not an issue; we just replace the drives". Well, it is not that simple-large drives can not be replaced within 3-4 hours, many connections must be made before a new or a replacement drive can be up and running.

Technical data on page 92

SERIES

UQ2 QUICK ACTING

TYPES

G

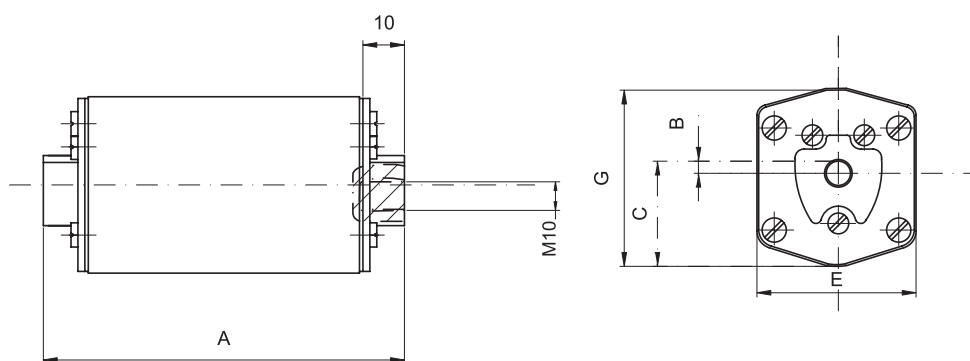
RATED VOLTAGE

~ 1200V**Technical data:**Standards:
IEC 60269-4-1Breaking capacity:
~200kA
Rated voltage:
~1200VCharacteristic:
aR**Application:**

Fuse-links type G has threaded studs so fuses are mounted by special screws to busbars.

Size	In (A)	Type with visual indicator	Code No.	Operating I ² t-value (A ² s)	Power dissipation (W)	Char.	Packaging (pcs)	Weight (g)
1	80	G1UQ2/80A/1200V	004733513	8.000	35	aR	1	750
	100	G1UQ2/100A/1200V	004733514	12.500	45,9	aR	1	750
	125	G1UQ2/125A/1200V	004733515	20.000	55	aR	1	750
	160	G1UQ2/160A/1200V	004733516	32.000	67	aR	1	750
	200	G1UQ2/200A/1200V	004733517	50.000	84	aR	1	750
	224	G1UQ2/224A/1200V	004733518	63.000	93	aR	1	750
	250	G1UQ2/250A/1200V	004733519	80.000	104	aR	1	750
2	315	G2UQ2/315A/1200V	004734521	120.000	125	aR	1	1050
	350	G2UQ2/350A/1200V	004734522	160.000	141	aR	1	1050
	400	G2UQ2/400A/1200V	004734523	200.000	159	aR	1	1050
3	425	G3UQ2/425A/1200V	004735524	230.000	172	aR	1	1350
	500	G3UQ2/500A/1200V	004735526	320.000	185	aR	1	1350
	630	G3UQ2/630A/1200V	004735528	500.000	198	aR	1	1350

G1UQ2/200A/1200V

**Dimensions:**

Size	A	B	C	E	G
1	155	8,5	25	46	50
2	142	2	29,5	54	59
3	142	2	34	64	70

remember

End users deciding not to follow recommendations on using gG type fuses, but instead protecting their equipment with properly selected ultra quick fuses should remember this in their negotiations for their new equipment and the much improved protection should have a direct influence on the price for consequent Service contract.

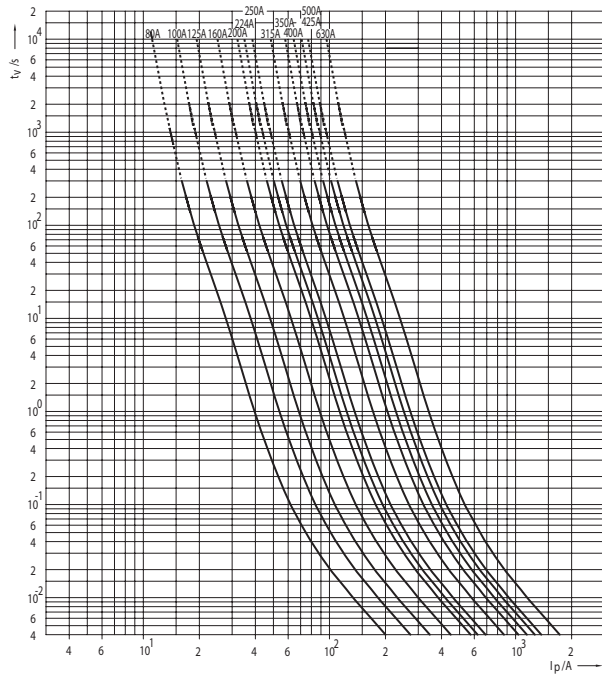
SERIES

UQ2

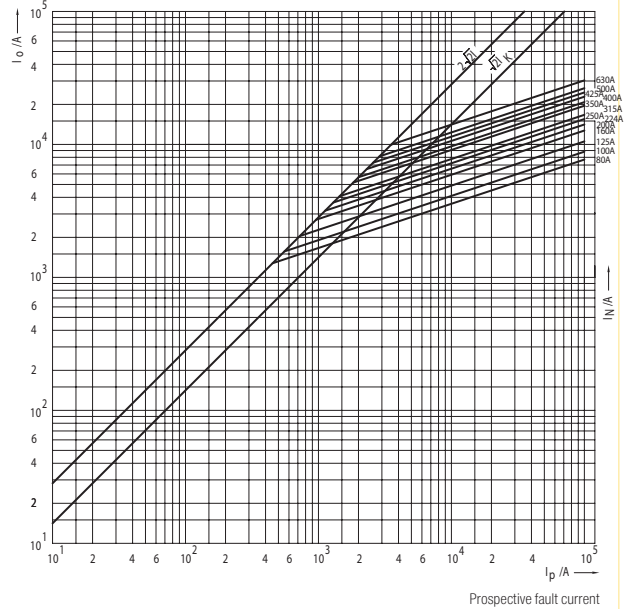
RATED VOLTAGE

~ 1200V

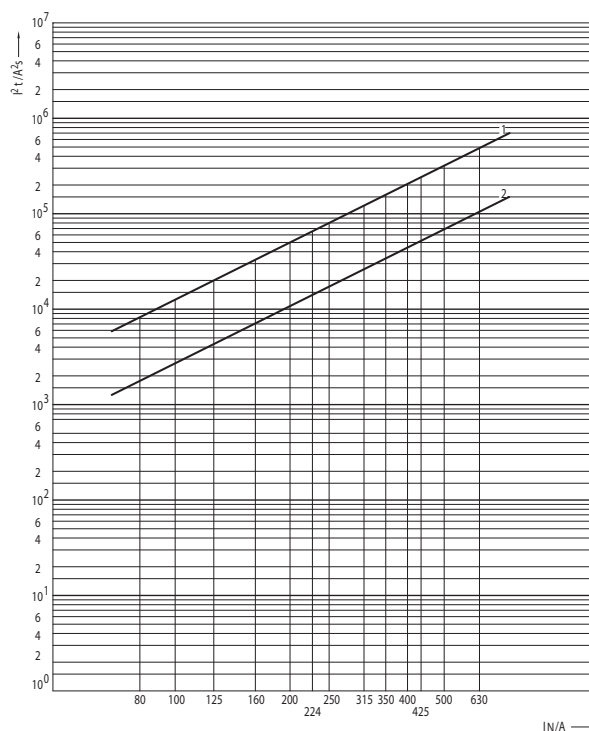
Time/current characteristics of fuse-links Ultra Quick MUQ2, SUQ2, GUQ2 - size 1, 2, 3



Cut-off characteristics of fuse-links Ultra Quick MUQ2, SUQ2, GUQ2 - size 1, 2, 3



Joule Integral (I^2t) for Ultra Quick MUQ2, SUQ2, GUQ2 - size 1, 2, 3



1 - Operating I^2t value at 1200V
2 - Pre-arcing I^2t value

CHARACTERISTICS

SYSTEM **NV/NH**

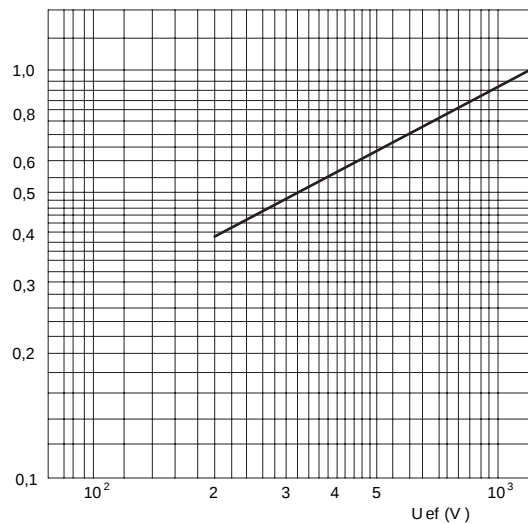
SERIES

UQ2

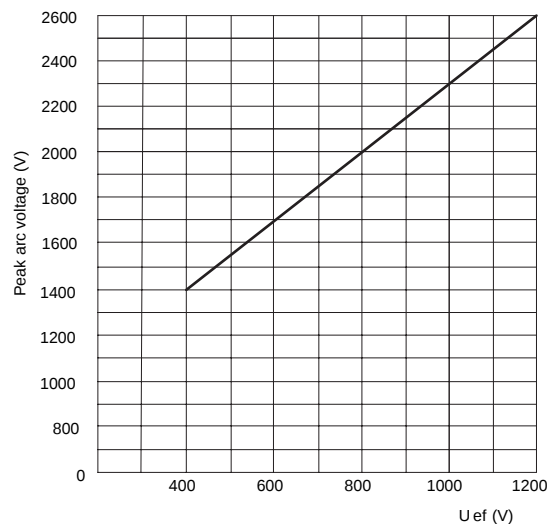
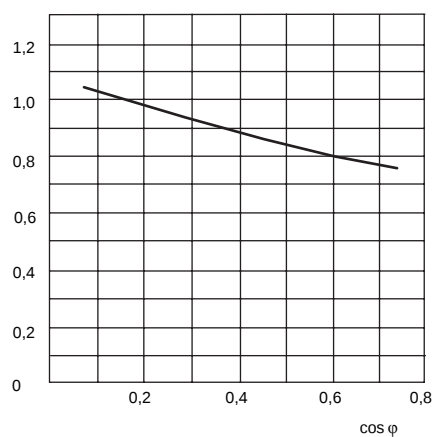
RATED VOLTAGE

~ 1200V

Conversion factor for total Joule integral



Maximum arc voltage occurring

Correction factor for performance factor $\cos\varphi \neq 0,15$ for operating I^2t values

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
UQ2

RATED VOLTAGE
~ 1200V

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 $I^2t \sim 230V$	Operating Joule Integral $I^2t \sim 400V$	Operating Joule Integral $I^2t \sim 500V$	Operating Joule Integral $I^2t \sim 690V$	Operating Joule Integral $I^2t \sim 1000V$	Operating Joule Integral $I^2t \sim 1200V$
	A	W	A ² s	A ² s	A ² s	A ² s	A ² s	A ² s	A ² s
M1, S1, G1 M2, S2, G2, M3, S3, G3	80	35,0	1.650	3.440	4.240	5.200	6.000	7.200	8.000
	100	45,9	2.500	5.375	6.625	8.125	9.375	11.250	12.500
	125	55	4.200	8.600	10.600	13.000	15.000	18.000	20.000
	160	67	7.000	13.760	16.960	20.800	24.000	28.800	32.000
	200	84	11.000	21.500	26.500	32.500	37.500	45.000	50.000
	224	93	15.000	27.090	33.390	40.950	47.250	56.700	63.000
	250	104	17.000	34.400	42.400	52.000	60.000	72.000	80.000
	315	125	25.000	51.600	63.600	78.000	90.000	108.000	120.000
	350	141	32.000	68.800	84.800	104.000	120.000	144.000	160.000
	400	159	42.000	86.000	106.000	130.000	150.000	180.000	200.000
	425	172	58.000	98.900	121.900	149.500	172.500	207.000	230.000
	500	185	77.000	137.600	169.600	208.000	240.000	288.000	320.000
	630	198	110.000	215.000	265.000	325.000	375.000	450.000	500.000

SERIES UQ02 HYPER QUICK ACTING	TYPES M	RATED VOLTAGE ~ 690V
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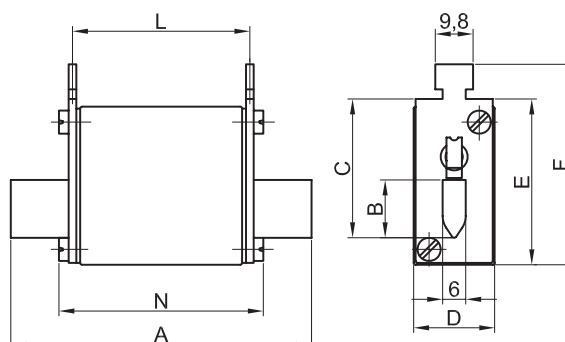
Technical data:			Application:
Standards: IEC 269-4 DIN 43620	Breaking capacity: ~ 200kA Rated voltage: ~ 690V	Characteristics: aR	Fuse-link type M are applied in fuse base PK

M00UQ02/160A/690V



Size	In (A)	Type (visual indicator with grip for NVS5)	Code No.	Operating I ² t-value (A ² s)	Power dissipation (W)	Char.	Packaging (pcs.)	Weight (g)
00	10	M00UQ02/10A/690V	004741204	28	4	aR	3	140
	16	M00UQ02/16A/690V	004741205	45	5,5	aR	3	140
	20	M00UQ02/20A/690V	004741206	75	7	aR	3	140
	25	M00UQ02/25A/690V	004741207	140	8	aR	3	140
	35	M00UQ02/35A/690V	004741209	260	10	aR	3	140
	40	M00UQ02/40A/690V	004741210	400	11	aR	3	140
	50	M00UQ02/50A/690V	004741211	640	12	aR	3	140
	63	M00UQ02/63A/690V	004741212	1.200	14,5	aR	3	140
	80	M00UQ02/80A/690V	004741213	2.200	16	aR	3	140
	100	M00UQ02/100A/690V	004741214	4.300	22,5	aR	3	140
	125	M00UQ02/125A/690V	004741215	7.150	28	aR	3	140
	160	M00UQ02/160A/690V	004741216	13.600	32	aR	3	140
	200	M00UQ02/200A/690V	004741217	22.000	46	aR	3	140
	250	M00UQ02/250A/690V	004741219	44.500	49	aR	3	140

Dimensions:



Size	A	B	C	D	E	F	L	N
00	78	15	35	30	42	51	48	52

remember

Typical industry plants where devices are protected by Ultra Quick fuses:

Pharmaceuticals	Electro-chemical Process
Sewage Treatment Plants	Mass Transportation
Petro-Chemical	Ski Resorts (Lifts)
Food Processing	Amusement Parks
Pulp and Paper	Port Authorities
Steel plants	Shipbuilding
Aluminum Plants	Cement plants
Printing Plants	Traction Substations
Trains	Power industry
Airports	Mines
Power plants (thermal, hydro, nuclear)	

Technical data on page 95

SERIES UQ02 HYPER QUICK ACTING	TYPES M	RATED VOLTAGE ~690V
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Technical data:			Application:
Standards: IEC 269-4 DIN 43620	Breaking capacity: ~200kA Rated voltage: ~690V	Characteristics: aR	Fuse-link type M are applied in fuse base PK

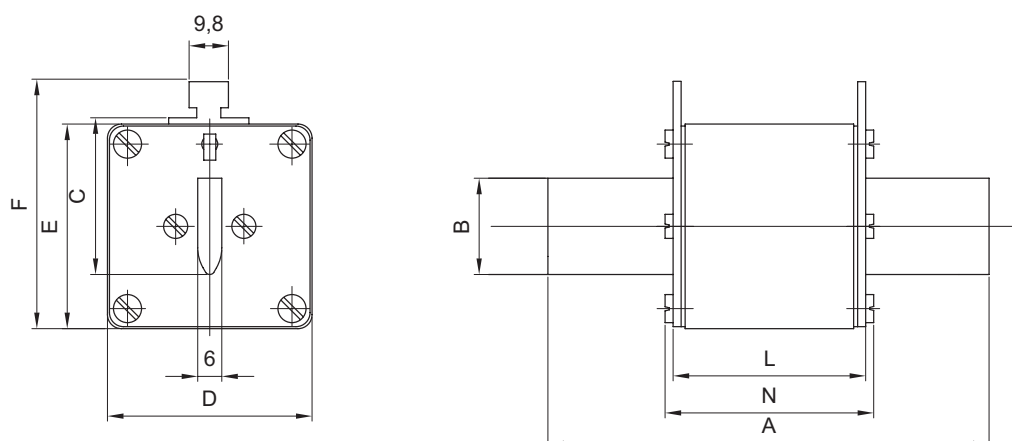
Size	In (A)	Type (visual indicator)	Code No.	Operating I ² t-value (A ² s)	Power dis- sipation (W)	Char.	Packaging (pcs.)	Weight (g)
1	63	M1UQ02/63A/690V	004743212	1.200	16	aR	3	500
	80	M1UQ02/80A/690V	004743213	1.800	21	aR	3	500
	100	M1UQ02/100A/690V	004743214	2.500	27	aR	3	500
	125	M1UQ02/125A/690V	004743215	4.600	32	aR	3	500
	160	M1UQ02/160A/690V	004743216	8.400	36	aR	3	500
	200	M1UQ02/200A/690V	004743217	14.000	46	aR	3	500
	250	M1UQ02/250A/690V	004743219	26.000	51	aR	3	500
	315	M1UQ02/315A/690V	004743221	42.000	66	aR	3	500
	350	M1UQ02/350A/690V	004743222	54.000	69	aR	3	500
	400	M1UQ02/400A/690V	004743223	98.000	80	aR	3	500
2	250	M2UQ02/250A/690V	004744219	21.500	53	aR	1	650
	315	M2UQ02/315A/690V	004744221	33.800	68	aR	1	650
	350	M2UQ02/350A/690V	004744222	48.900	71	aR	1	650
	400	M2UQ02/400A/690V	004744223	85.000	75	aR	1	650
	450	M2UQ02/450A/690V	004744225	120.000	80	aR	1	650
	500	M2UQ02/500A/690V	004744226	150.000	91	aR	1	650
	630	M2UQ02/630A/690V	004744228	305.000	120	aR	1	650
3	400	M3UQ02/400A/690V	004745223	69.000	81	aR	3	850
	450	M3UQ02/450A/690V	004745225	96.000	89	aR	3	850
	500	M3UQ02/500A/690V	004745226	127.000	110	aR	3	850
	630	M3UQ02/630A/690V	004745228	225.000	121	aR	3	850
	710	M3UQ02/710A/690V	004745229	320.000	130	aR	3	850
	800	M3UQ02/800A/690V	004745230	525.000	145	aR	3	850

M1UQ02/160A/690V



ULTRA QUICK

Note: for size 1 it is possible for mounting NVS5

Dimensions:

Size	A	B	C	D	E	F	L	N
1	135	24	40	46	52	62	65	72
2	150	30	48	54	61	71	65	72
3	150	37	60	64	74	84	65	72

SERIES
UQ02 HYPER QUICK ACTING

TYPES
S110mm

RATED VOLTAGE
~ 690V

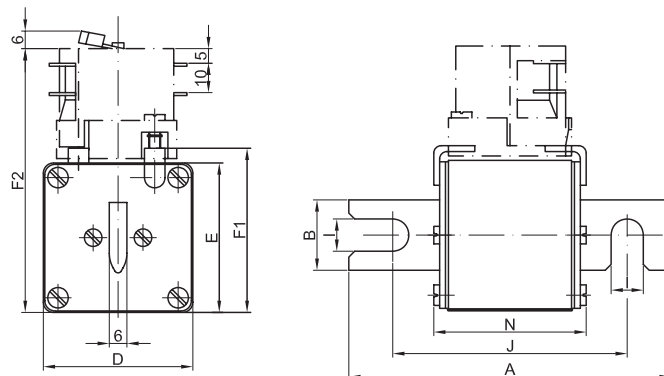
Technical data:			Application:
Standards: IEC 269-4 DIN 43653	Breaking capacity: ~ 200kA Rated voltage: ~ 690V	Characteristics: aR	Fuse links type S110mm of size 1,2,3 are applied in universal fuse base US1...3-1/80-110 and mounted by screws to busbars.

S2MUQ02/110/900A/690V



Size	In (A)	Type with centre trip indicator for microswitch MK	Code No.	Operating I ² t-value (A ² s)	Power dissipation (W)	Char.	Packaging (pcs.)	Weight (g)
1	63	S1MUQ02/110/63A/690V	004743712	1.200	15	aR	1	500
	80	S1MUQ02/110/80A/690V	004743713	1.800	20	aR	1	500
	100	S1MUQ02/110/100A/690V	004743714	2.480	27	aR	1	500
	125	S1MUQ02/110/125A/690V	004743715	4.600	31	aR	1	500
	160	S1MUQ02/110/160A/690V	004743716	8.450	35	aR	1	500
	200	S1MUQ02/110/200A/690V	004743717	14.000	46	aR	1	500
	250	S1MUQ02/110/250A/690V	004743719	26.000	51	aR	1	500
	315	S1MUQ02/110/315A/690V	004743721	42.000	66	aR	1	500
	350	S1MUQ02/110/350A/690V	004743722	54.000	68	aR	1	500
	400	S1MUQ02/110/400A/690V	004743723	98.000	70	aR	1	500
	450	S1MUQ02/110/450A/690V	004743725	143.000	72	aR	1	500
	500	S1MUQ02/110/500A/690V	004743726	198.000	74	aR	1	500
	550	S1MUQ02/110/550A/690V	004743727	286.000	77	aR	1	500
	630	S1MUQ02/110/630A/690V	004743728	396.000	84	aR	1	500
2	710	S1MUQ02/110/710A/690V	004743729	470.000	92	aR	1	500
	400	S2MUQ02/110/400A/690V	004744723	85.000	70	aR	1	650
	450	S2MUQ02/110/450A/690V	004744725	120.000	75	aR	1	650
	500	S2MUQ02/110/500A/690V	004744726	150.000	80	aR	1	650
	550	S2MUQ02/110/550A/690V	004744727	190.000	86	aR	1	650
	630	S2MUQ02/110/630A/690V	004744728	290.000	93	aR	1	650
	710	S2MUQ02/110/710A/690V	004744729	410.000	99	aR	1	650
	800	S2MUQ02/110/800A/690V	004744730	610.000	108	aR	1	650
3	900	S2MUQ02/110/900A/690V	004744731	920.000	115	aR	1	650
	1000	S2MUQ02/110/1000A/690V	004744732	1.300.000	124	aR	1	650
	630	S3MUQ02/110/630A/690V	004745728	215.000	108	aR	3	850
	710	S3MUQ02/110/710A/690V	004745729	320.000	112	aR	3	850
	800	S3MUQ02/110/800A/690V	004745730	475.000	116	aR	3	850
	900	S3MUQ02/110/900A/690V	004745731	710.000	118	aR	3	850
	1000	S3MUQ02/110/1000A/690V	004745732	920.000	124	aR	3	850
	1250	S3MUQ02/110/1250A/690V	004745733	1.900.000	141	aR	3	850
	1400	S3MUQ02/110/1400A/690V	004745734	2.600.000	156	aR	3	850

Dimensions:



Size	A	B	D	E	F1	F2	I	J	N
1	140	24	51	51	56	90	11	110	52
2	140	30	60	60	65	99	11	110	52
3	140	37	75	75	80	114	11	110	52

Technical data on page 95

SERIES

UQ02 HYPER QUICK ACTING

TYPES

G

RATED VOLTAGE

~690V

Technical data:

Standards:

IEC 269-4

Breaking capacity:

~200kA

Rated voltage:

~690V

Characteristics:

aR

Application:

Fuse links type G has threaded studs so fuses are mounted by special screws to busbars.

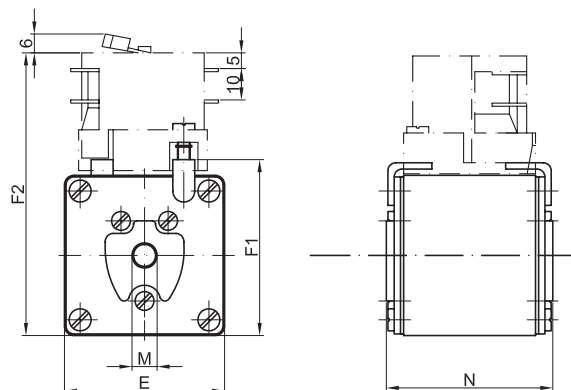
Size	In (A)	Type with centre trip indicator for microswitch MK	Code No.	Operating I ² t-value (A ² s)	Power dissipation (W)	Char.	Packaging (pcs.)	Weight (g)
1	63	G1MUQ02/63A/690V	004743612	1.200	12	aR	2	500
	80	G1MUQ02/80A/690V	004743613	1.800	17	aR	2	500
	100	G1MUQ02/100A/690V	004743614	2.480	23	aR	2	500
	125	G1MUQ02/125A/690V	004743615	4.600	28	aR	2	500
	160	G1MUQ02/160A/690V	004743616	8.450	35	aR	2	500
	200	G1MUQ02/200A/690V	004743617	14.000	46	aR	2	500
	250	G1MUQ02/250A/690V	004743619	26.000	51	aR	2	500
	315	G1MUQ02/315A/690V	004743621	42.000	64	aR	2	500
	350	G1MUQ02/350A/690V	004743622	54.000	67	aR	2	500
	400	G1MUQ02/400A/690V	004743623	98.000	69	aR	2	500
	450	G1MUQ02/450A/690V	004743625	143.000	70	aR	2	500
	500	G1MUQ02/500A/690V	004743626	198.000	72	aR	2	500
	550	G1MUQ02/550A/690V	004743627	286.000	74	aR	2	500
	630	G1MUQ02/630A/690V	004743628	396.000	78	aR	2	500
2	710	G1MUQ02/710A/690V	004743629	470.000	84	aR	2	500
	400	G2MUQ02/400A/690V	004744623	85.000	71	aR	2	650
	450	G2MUQ02/450A/690V	004744625	120.000	77	aR	2	650
	500	G2MUQ02/500A/690V	004744626	150.000	84	aR	2	650
	550	G2MUQ02/550A/690V	004744627	190.000	92	aR	2	650
	630	G2MUQ02/630A/690V	004744628	290.000	97	aR	2	650
	710	G2MUQ02/710A/690V	004744629	410.000	104	aR	2	650
	800	G2MUQ02/800A/690V	004744630	610.000	112	aR	2	650
3	900	G2MUQ02/900A/690V	004744631	920.000	116	aR	2	650
	1000	G2MUQ02/1000A/690V	004744632	1.300.000	121	aR	2	650
	630	G3MUQ02/630A/690V	004745628	215.000	110	aR	2	850
	710	G3MUQ02/710A/690V	004745629	320.000	118	aR	2	850
	800	G3MUQ02/800A/690V	004745630	475.000	122	aR	2	850
	900	G3MUQ02/900A/690V	004745631	710.000	128	aR	2	850
	1000	G3MUQ02/1000A/690V	004745632	920.000	138	aR	2	850
	1250	G3MUQ02/1250A/690V	004745633	1.900.000	154	aR	2	850
	1400	G3MUQ02/1400A/690V	004745634	2.600.000	162	aR	2	850

G1MUQ02/200A/690V



ULTRA QUICK

Dimensions:



Size	D	E	F1	F2	M	N
1	51	51	56	90	M8	53
2	60	60	65	99	M10	53
3	75	75	80	114	M12	53

For more information visit: [www.eti.si/Electrotechnical products/Semiconductor protection](http://www.eti.si/Electrotechnical%20products/Semiconductor%20protection)

CHARACTERISTICS

SYSTEM **NV/NH**

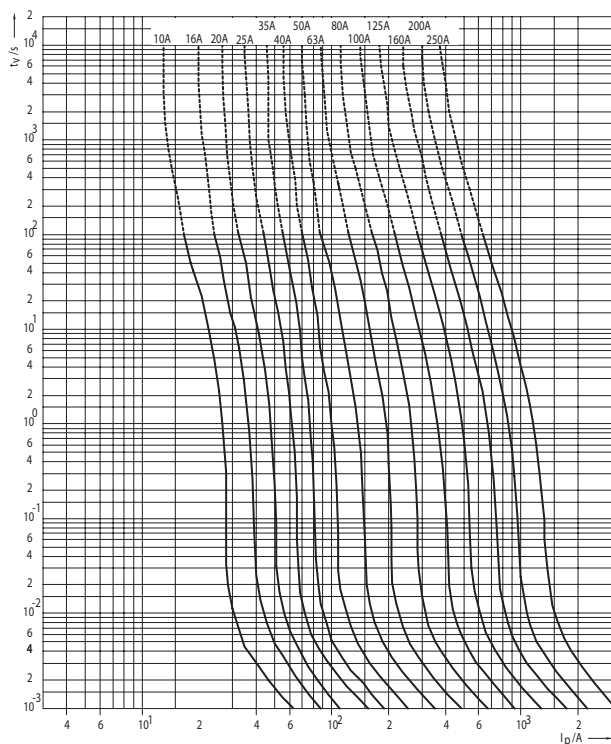
SERIES

UQ02

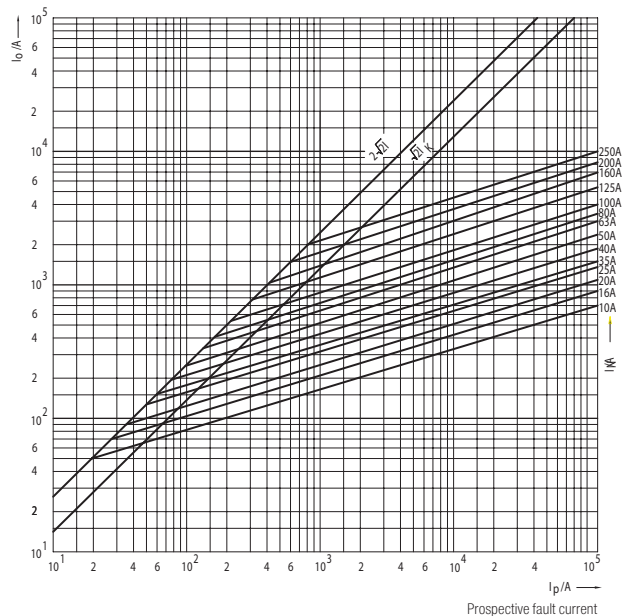
RATED VOLTAGE

~690V

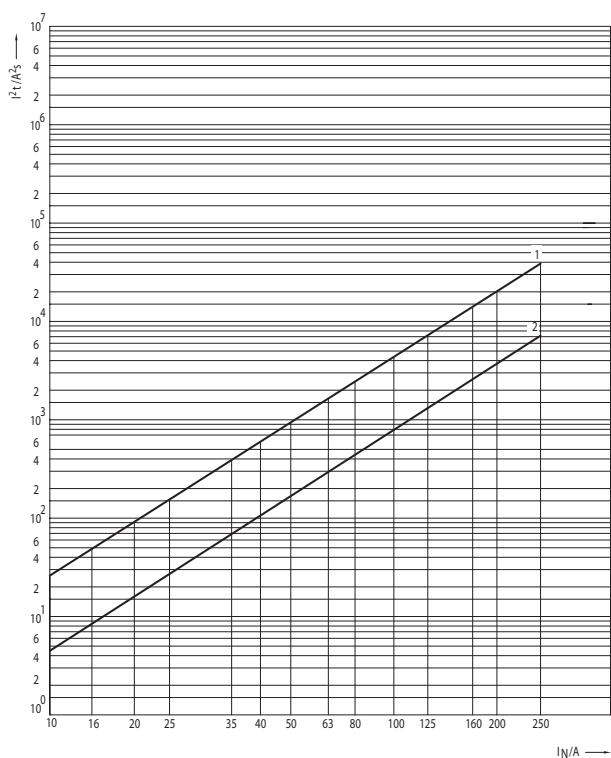
Time/current characteristics of fuse-links Ultra quick MUQ02 - size 00



Cut-off characteristics of fuse - links Ultra Quick MUQ02 - size 00



Joule integral (I^2t) for Ultra Quick MUQ02 - size 00

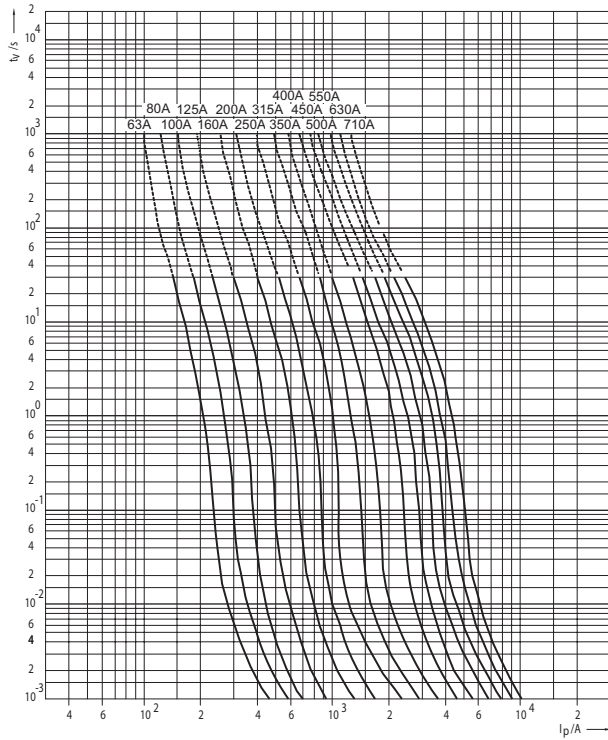


1 - Operating I^2t value at 690V
2 - Pre-arcing I^2t value

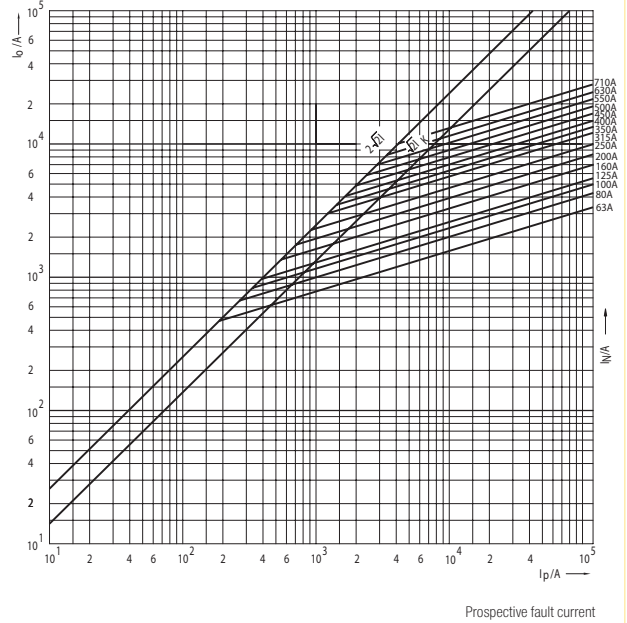
SERIES
UQ02

RATED VOLTAGE
~690V

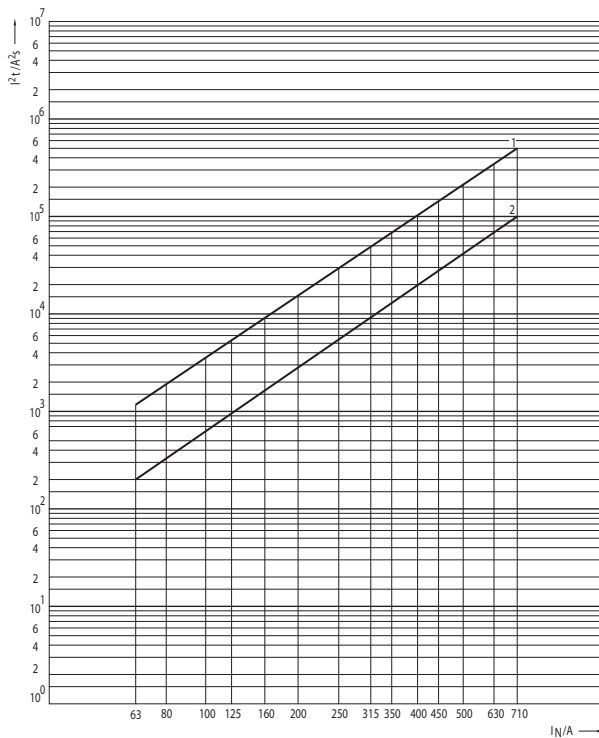
Time/current characteristics of fuse-links Ultra quick MUQ02, SUQ02, GUQ02 - size 1



Cut-off characteristics of fuse - links Ultra Quick MUQ02, SUQ02, GUQ02 - size 1



Joule integral (I^2t) for Ultra Quick MUQ02, SUQ02, GUQ02 - size 1

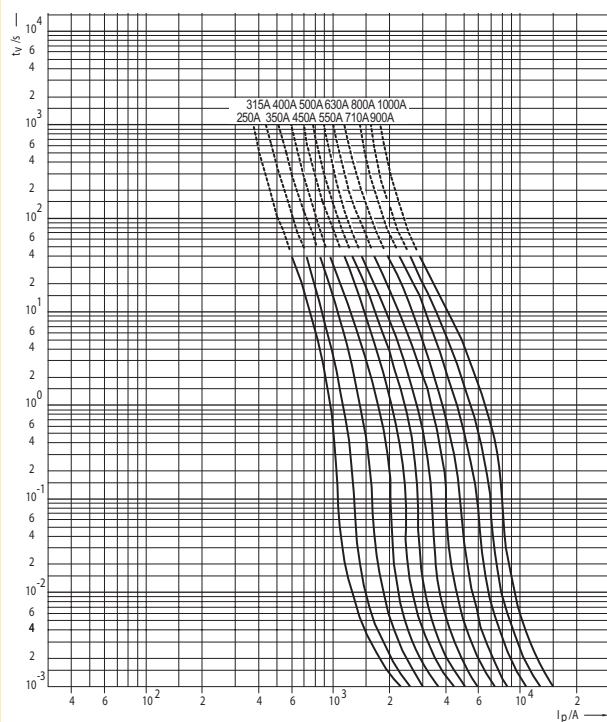


1 - Operating I^2t value at 690V
2 - Pre-arcing I^2t value

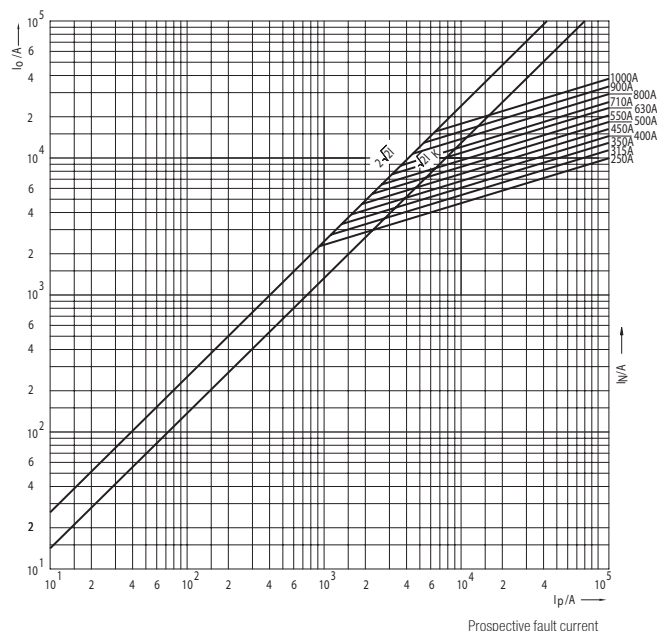
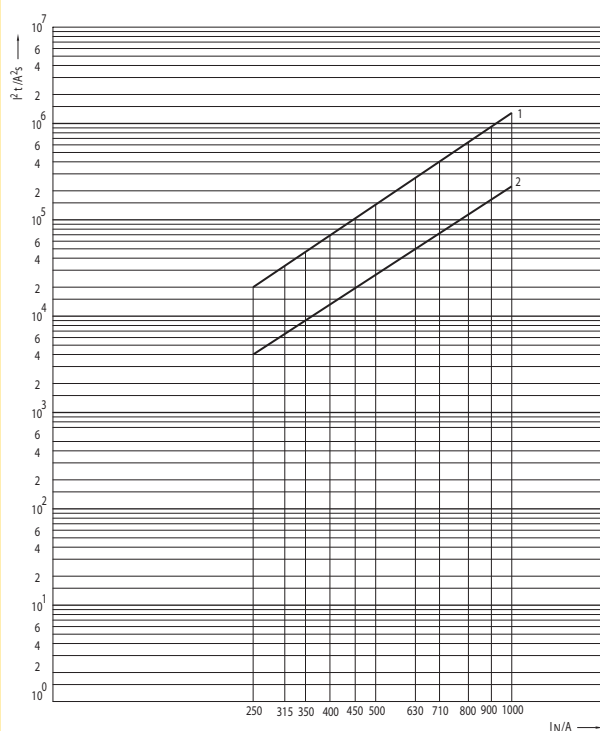
CHARACTERISTICS

SYSTEM **NV-NH**SERIES
UQ02RATED VOLTAGE
~ 690V

Time/current characteristics of fuse-links Ultra quick MUQ02, SUQ02, GUQ02 - size 2



Cut-off characteristics of fuse - links Ultra Quick MUQ02, SUQ02, GUQ02 - size 2

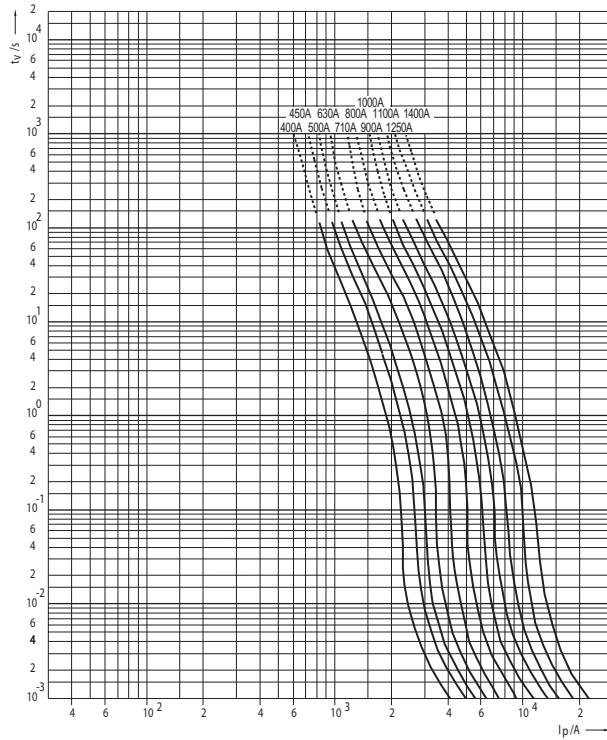
Joule integral (I^2t) for Ultra Quick MUQ02, SUQ02, GUQ02 - size 2

1 - Operating I^2t value at 690V
2 - Pre-arcing I^2t value

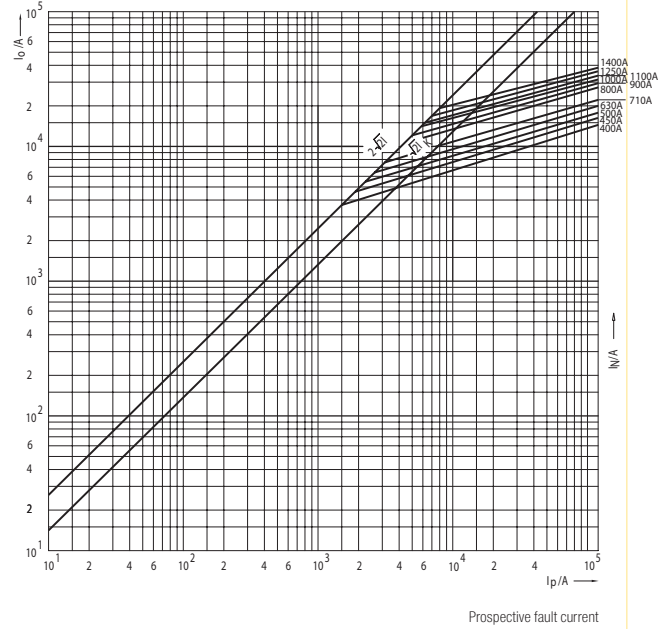
SERIES
UQ02

RATED VOLTAGE
~690V

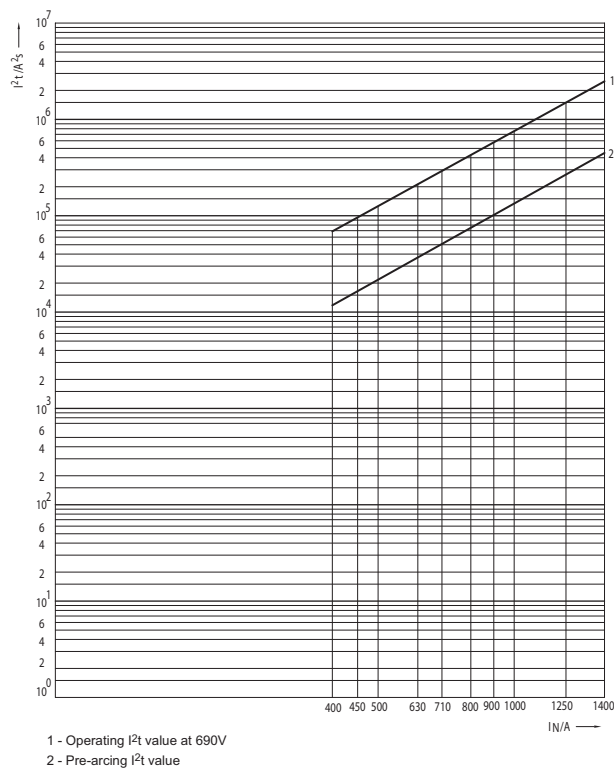
Time/current characteristics of fuse-links Ultra quick MUQ02, SUQ02, GUQ02 - size 3



Cut-off characteristics of fuse - links Ultra Quick MUQ02, SUQ02, GUQ02 - size 3



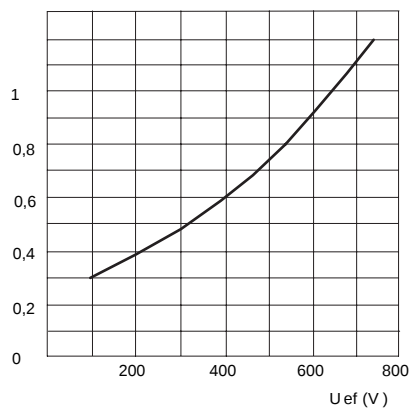
Joule integral (I^2t) for Ultra Quick MUQ02, SUQ02, GUQ02 - size 3



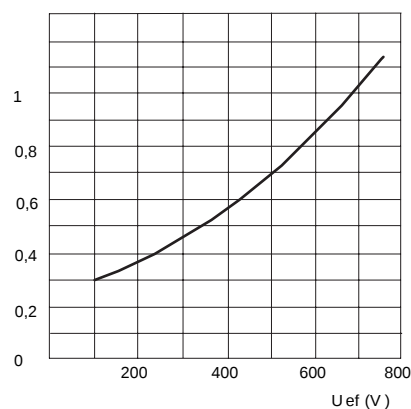
CHARACTERISTICS

SYSTEM **NV-NH**SERIES
UQ02RATED VOLTAGE
~ 690V

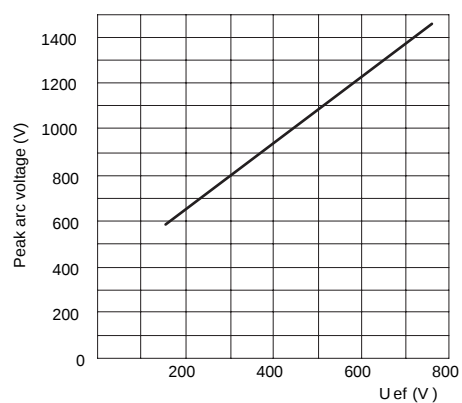
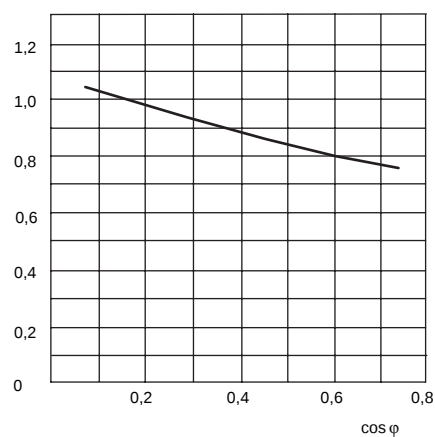
Conversion factor for total Joule integral size 00



Conversion factor for total Joule integral size 1,2,3



Maximum arc voltage occurring

Correction factor for performance factor $\cos\varphi \neq 0,15$ for operating I²t values

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
UQ02RATED 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 $I^2t \sim 230V$	Operating Joule Integral $I^2t \sim 400V$	Operating Joule Integral $I^2t \sim 500V$	Operating Joule Integral $I^2t \sim 690V$
	A	W	A ² s	A ² s	A ² s	A ² s	A ² s
M00	10	4	5	8	16	21	28
	16	5,5	8	13	26	34	45
	20	7	14	22	43	56	75
	25	8	26	42	81	104	140
	35	10	42	77	150	193	260
	40	11	75	119	231	298	400
	50	12	120	191	369	476	640
	63	14,5	220	357	692	893	1.200
	80	16	400	655	1.269	1.637	2.200
	100	22,5	810	1.280	2.479	3.199	4.300
	125	28	1.350	2.128	4.123	5.320	7.150
	160	32	2.560	4.047	7.842	10.118	13.600
	200	46	4.200	6.547	12.685	16.368	22.000
	250	49	8.300	13.243	25.659	33.108	44.500
M1,S1, G1	63	15	200	357	692	893	1.200
	80	20	350	536	1.038	1.339	1.800
	100	27	450	738	1.430	1.845	2.480
	125	31	830	1.369	2.652	3.422	4.600
	160	35	1.550	2.515	4.872	6.287	8.450
	200	46	2.600	4.166	8.072	10.416	14.000
	250	51	4.800	7.738	14.992	19.344	26.000
	315	66	7.600	12.499	24.217	31.248	42.000
	350	68	11.000	16.070	31.136	40.176	54.000
	400	70	18.500	29.165	56.507	72.912	98.000
S1, G1	450	72	27.000	42.557	82.454	106.392	143.000
	500	74	36.500	58.925	114.167	147.312	198.000
	550	77	54.000	85.114	164.908	212.784	286.000
	630	84	76.000	117.850	228.334	294.624	396.000
	710	92	96.000	139.872	271.002	349.680	470.000
M2	250	53	4.000	6.398	12.397	15.996	21.500
	315	68	6.300	10.059	19.489	25.147	33.800
	350	71	9.100	14.553	28.196	36.382	48.900
M2,S2, G2	400	70	15.500	25.296	49.011	63.240	85.000
	450	75	21.500	35.712	69.192	89.280	120.000
	500	80	28.000	44.640	86.490	111.600	150.000
	550	86	36.000	56.544	109.554	141.360	190.000
	630	93	56.000	86.304	167.214	215.760	290.000
	710	99	78.000	122.016	236.406	305.040	410.000
S2, G2	800	108	120.000	181.536	351.726	453.840	610.000
	900	115	178.000	273.792	530.472	684.480	920.000
	1000	124	235.000	386.880	749.580	967.200	1.300.000
M3	400	81	12.800	20.534	39.785	51.336	69.000
	450	89	17.800	28.570	55.354	71.424	96.000
	500	110	23.500	37.795	73.228	94.488	127.000
M3,S3, G3	630	108	40.000	63.984	123.969	159.960	215.000
	710	112	53.000	95.232	184.512	238.080	320.000
	800	116	90.000	141.360	273.885	353.400	475.000
S3, G3	900	118	130.000	211.296	409.386	528.240	710.000
	1000	124	175.000	273.792	530.472	684.480	920.000
	1250	141	330.000	565.440	1.095.540	1.413.600	1.900.000
	1400	156	455.000	773.760	1.499.160	1.934.400	2.600.000