

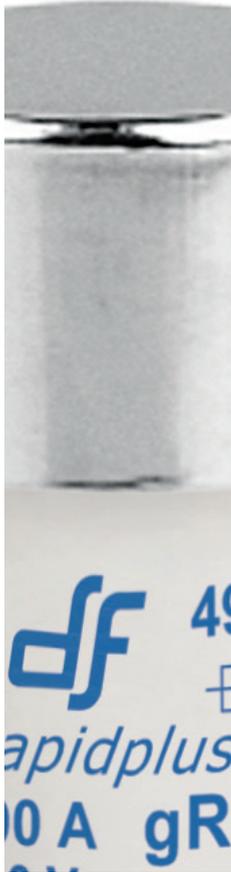
RAPIDPLUS

HIGH SPEED FUSE LINKS FOR SEMICONDUCTORS



03

gS
CYL
fuse links



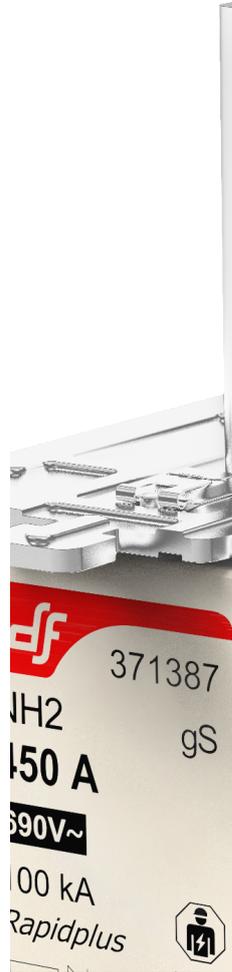
04

gR
CYL
fuse links



05

aR
CYL
fuse links



06

gS
NH
fuse links



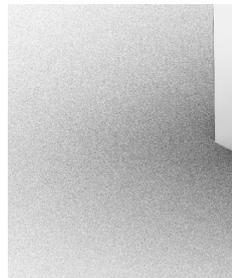
09

aR
NH
fuse links



11

SQB
square
body
fuse links



CYL | **gS**
CYLINDRICAL
fuse links

RAPIDPLUS CYL 10x85 gS 1.000V fuse links are capable of clearing all types of overcurrents, overloads as well as short-circuits, thus the fuse links protect semiconductors as well as cables and all switchgear of installation. For this reason there are high speed fuse links for this specific purpose, with very fast melting characteristics, low let-through energy values (I^2t) and adequate selective coordination with protection devices upstream.

10x85

U **1000V** AC/DC

BREAKING CAPACITY **30kA** AC
 10kA DC

In (A)	REFERENCE	PACKING Uni /BOX
1	494001	10/50/1000
2	494002	10/50/1000
3	494003	10/50/1000
4	494004	10/50/1000
5	494005	10/50/1000
6	494006	10/50/1000
8	494008	10/50/1000
10	494010	10/50/1000
12	494012	10/50/1000
16	494016	10/50/1000
20	494020	10/50/1000



STANDARDS

IEC/EN 60269-1
IEC/EN 60269-4

DIMENSIONS

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t-I | CUT-OFF CHARACTERISTICS

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CYL | **gR**
CYLINDRICAL
fuse links

RAPIDPLUS gR fuse links are capable of clearing all types of overcurrents, overloads as well as short-circuits, thus the fuse links protect semiconductors as well as cables and all switchgear of installation. Typical application comprise protection of semiconductors (diodes, thyristors, triacs, etc) used in power rectifiers, UPS, converters, motor drives (AC and DC), soft starters, solid state relays, photovoltaic inverters, welding inverters and any application where it is necessary to protect semiconductor devices. UL certification according to UL248 standard. UL file Nr. E477155.

10x38

U **690V AC** UL/IEC
440V DC IEC

BREAKING CAPACITY **200kA**
30kA @440V DC

STANDARDS

In (A)	REFERENCE		PACKING Uni /BOX
	WITHOUT STRIKER	WITH STRIKER	
1	492000		10/100
2	492001		10/100
3	492002		10/100
4	492003		10/100
6	492004		10/100
8	492005		10/100
10	492006		10/100
12	492007		10/100
16	492008		10/100
20	492009		10/100
25	492010		10/100
32	492011		10/100



14x51

U **690V AC** UL/IEC
440V DC IEC

BREAKING CAPACITY **200kA**
30kA @440V DC

STANDARDS

4	492014		10/50
6	492015		10/50
8	492016	492116	10/50
10	492017	492117	10/50
12	492018	492118	10/50
16	492019	492119	10/50
20	492020	492120	10/50
25	492021	492121	10/50
32	492022	492122	10/50
40	492023	492123	10/50
50	492024	492124	10/50



22x58

U **690V AC** UL/IEC
440V DC IEC

BREAKING CAPACITY **200kA**
30kA @440V DC

STANDARDS

20	492033	492133	10/50
25	492034	492134	10/50
32	492035	492135	10/50
40	492036	492136	10/50
50	492037	492137	10/50
63	492038	492138	10/50
80	492039	492139	10/50
100	492040	492140	10/50



STANDARDS

IEC/EN 60269-1
IEC/EN 60269-6
UL 248-1
UL 248-13

DIMENSIONS

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t-I | CUT-OFF CHARACTERISTICS

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USE IN PMX MODULAR FUSE HOLDERS

PAGE 65

CYL | **aR**
CYLINDRICAL
fuse links

RAPIDPLUS aR fuse links are intended to clearing short-circuits and have been designed and manufactured to have very low I²t values as well as reduced arc voltages that guarantee an optimum protection of semiconductors. They have a very good cycling ability. Made of ceramic tubes with high withstand to internal pressure and thermal shock, and silver plated copper contacts. Typical application comprise protection of semiconductors (diodes, thyristors, triacs, etc) used in power rectifiers, UPS, converters, motor drives (AC and DC), soft starters, solid state relays, photovoltaic inverters, welding inverters and any application where it is necessary to protect semiconductor devices. UL certification according to UL248 standard. UL file Nr. E477155.



U 690V AC ^{UL/IEC}
700V DC ^{IEC}
BREAKING CAPACITY 200kA
30kA @700V DC
STANDARDS

I _n (A)	REFERENCE		PACKING Uni /BOX
	WITHOUT STRIKER	WITH STRIKER	
1	491105		10/100
2	491107		10/100
3	491110		10/100
4	491113		10/100
6	491115		10/100
8	491120		10/100
10	491125		10/100
12	491130		10/100
16	491135		10/100
20	491140		10/100
25	491145		10/100
32	491155		10/100



U 690V AC ^{UL/IEC}
700V DC ^{IEC}
BREAKING CAPACITY 200kA
30kA @700V DC
STANDARDS

4	491215		10/50
6	491225		10/50
8	491230	491730	10/50
10	491235	491735	10/50
12	491237	491737	10/50
16	491241	491741	10/50
20	491245	491745	10/50
25	491250	491750	10/50
32	491260	491760	10/50
40	491265	491765	10/50
50	491270	491770	10/50



U 690V AC ^{UL/IEC}
700V DC ^{IEC}
BREAKING CAPACITY 200kA
30kA @700V DC
STANDARDS

20	491300	491800	10/50
25	491305	491805	10/50
32	491310	491810	10/50
40	491315	491815	10/50
50	491320	491820	10/50
63	491325	491825	10/50
80	491330	491830	10/50
100	491335	491835	10/50



STANDARDS

IEC/EN 60269-1
IEC/EN 60269-6
UL 248-1
UL 248-13

DIMENSIONS

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**t-I | CUT-OFF
CHARACTERISTICS**

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**USE IN PMX MODULAR
FUSE HOLDERS**

PAGE 65

NH | **gS**
NH 690V
fuse links

RAPIDPLUS NH gS fuse links are capable of clearing all types of overcurrents, overloads as well as short-circuits, thus the fuse links protect semiconductors as well as cables and all switchgear of installation. They are optimized to have reduced power dissipations that allow the utilization of a wide range of fuse-bases and fuse-switch disconnectors. RAPIDPLUS NH gS range comprise five sizes NH000, NH00, NH1, NH2 and NH3 with rated currents between 20A and 630A and a rated voltage of 690V AC. Typical application comprise protection of semiconductors (diodes, thyristors, triacs, etc) used in power rectifiers, UPS, converters, motor drives, soft starters, solid state relays, photovoltaic inverters, welding inverters and any application where it is necessary to protect semiconductor devices.



U **690V AC**

BREAKING CAPACITY **100kA**
30kA @440V DC

I_n
(A)

REFERENCE

PACKING

Uni /BOX

20	371025	3/90
25	371030	3/90
32	371035	3/90
40	371045	3/90
50	371050	3/90
63	371055	3/90
80	371060	3/90
100	371065	3/90



U **690V AC**

BREAKING CAPACITY **100kA**
30kA @440V DC

125
160

371070
371075

3/60
3/60



U **690V AC**

BREAKING CAPACITY **100kA**
30kA @550V DC

125
160
200
250
280

371250
371255
371260
371270
371273

3/30
3/30
3/30
3/30
3/30



STANDARDS

IEC/EN 60269-1
IEC/EN 60269-4

DIMENSIONS

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PAGE 33

t-I | CUT-OFF CHARACTERISTICS

PAGE 32
PAGE 34

NH | **gS**
NH 690V
fuse links

RAPIDPLUS gR fuse links are capable of clearing all types of overcurrents, overloads as well as short-circuits, thus the fuse links protect semiconductors as well as cables and all switchgear of installation. Typical application comprise protection of semiconductors (diodes, thyristors, triacs, etc) used in power rectifiers, UPS, converters, motor drives (AC and DC), soft starters, solid state relays, photovoltaic inverters, welding inverters and any application where it is necessary to protect semiconductor devices. UL certification according to UL248 standard. UL file Nr. E477155.

NH2

U **690V AC**

BREAKING CAPACITY **100kA**
30kA @650V DC

250	371360	3/18
315	371370	3/18
355	371375	3/18
400	371380	3/18
450	371387	3/18



NH3

U **690V AC**

BREAKING CAPACITY **100kA**
30kA @650V DC

355	371450	1/15
400	371455	1/15
450	371463	1/15
500	371465	1/15
630	371470	1/15



STANDARDS

IEC/EN 60269-1
IEC/EN 60269-4

DIMENSIONS

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t-I | CUT-OFF CHARACTERISTICS

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NH | gS NH 800V fuse links

These knife type (NH) fuse links with high breaking capacity are intended for protection of the output side of new generation of photovoltaic inverters, with output voltage of 800V AC. They are also adequate for the protection of 690V AC capacitor banks. They are gG class and provide protection against overloads and short-circuits with rated voltages up to 800V +10%. The rated breaking capacity is 80kA. They have a low values of power dissipations. Manufactured with ceramic body with high withstand to internal pressure and thermal shock, that allows a high breaking capacity. Knife contacts are made of silver plated copper or brass.

Can be mounted in open-type ST fuse bases or in fuse disconnectors type BS.



U **800V AC**

BREAKING CAPACITY **120kA**

I_n
(A)

REFERENCE

PACKING

Uni /BOX

25	369030	3
35	369035	3
40	369045	3
50	369050	3
63	369055	3
80	369060	3
100	369065	3



U **800V AC**

BREAKING CAPACITY **120kA**

100

369245

3

125

369250

3

160

369255

3

200

369260

3



U **800V AC**

BREAKING CAPACITY **120kA**

250

369435

1

315

369445

1

355

369450

1

400

369455

1



STANDARDS

IEC/EN 60269-1
IEC/EN 60269-4

DIMENSIONS

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t-I | CUT-OFF CHARACTERISTICS

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NH | **aR**
NH
fuse links

RAPIDPLUS NH aR fuse-links have a very low I^2t values thanks to the special melting elements design, manufactured with pure silver. The sand is solidified in order to have a good arcing control, high breaking capacity and excellent capability for cyclic loads. These fuse-links have a trip indicator that can be used as a visual indication or can be equipped with a microswitch mounted directly on the fuse-link. Typical application comprise protection of semiconductors (diodes, thyristors, triacs, etc) used in power rectifiers, UPS, converters, motor drives, soft starters, solid state relays, photovoltaic inverters, welding inverters and any application where it is necessary to protect power semiconductor devices.



U **690V AC**

BREAKING CAPACITY **120kA**
30kA @440V DC

I_n (A)	REFERENCE	PACKING Uni /BOX
16	365020	3/90
20	365025	3/90
25	365030	3/90
32	365035	3/90
40	365045	3/90
50	365050	3/90
63	365055	3/90
80	365060	3/90
100	365065	3/90
125	365070	3/90
160	365075	3/90
200	365080	3/90
250	365085	3/90



U **690V AC**

BREAKING CAPACITY **120kA**
30kA @550V DC

40	365225	3/30
50	365230	3/30
63	365235	3/30
80	365240	3/30
100	365245	3/30
125	365250	3/30
160	365255	3/30
200	365260	3/30
250	365270	3/30
315	365280	3/30
350	365282	3/30
400	365290	3/30



STANDARDS

IEC/EN 60269-1
IEC/EN 60269-4

DIMENSIONS

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t-I CUT-OFF CHARACTERISTICS

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FUSE LOAD CONSTANT C_L

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NH | aR
NH
fuse links

RAPIDPLUS NH aR fuse-links have a very low I^2t values thanks to the special melting elements design, manufactured with pure silver. The sand is solidified in order to have a good arcing control, high breaking capacity and excellent capability for cyclic loads. These fuse-links have a trip indicator that can be used as a visual indication or can be equipped with a microswitch mounted directly on the fuse-link. Typical application comprise protection of semiconductors (diodes, thyristors, triacs, etc) used in power rectifiers, UPS, converters, motor drives, soft starters, solid state relays, photovoltaic inverters, welding inverters and any application where it is necessary to protect power semiconductor devices.

NH2

U **690V AC**
BREAKING CAPACITY **120kA**
30kA @650V DC

200	365350	3/18
250	365360	3/18
315	365370	3/18
350	365372	3/18
400	365380	3/18
450	365387	3/18
500	365390	3/18
550	365392	3/18
630	365395	3/18
700	365397	3/18



NH3

U **690V AC**
BREAKING CAPACITY **120kA**
30kA @650V DC

500	365465	1/15
550	365467	1/15
630	365470	1/15
700	365472	1/15
800	365475	1/15
900	365480	1/15
1000	365485	1/15



STANDARDS

IEC/EN 60269-1
IEC/EN 60269-4

DIMENSIONS

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t-I | CUT-OFF CHARACTERISTICS

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FUSE LOAD CONSTANT C_L

PAGE 66

SQB square body fuse links

RAPIDPLUS SQUARE BODY (SQB) aR fuse links are specially designed for protection of power semiconductor devices. Typical application comprise protection of diodes, thyristors, triacs and IGBTs, used in power rectifiers, UPS, converters, motor drives, soft starters, solid state relays, photovoltaic inverters, welding inverters and any application in power electronics, where it is necessary to protect power semiconductor devices. Thanks to the design of their melting elements, the materials employed and their construction with solidified sand, these fuses provide excellent characteristics:

- Ultra-fast acting.
- Very good current limiting.
- Very low I^2t values.
- High breaking capacity.
- Excellent cycling capability.



U **690V AC**
BREAKING CAPACITY **120kA**

I_n (A)	REFERENCE	PACKING Uni /BOX
80	250325	3/36
100	250330	3/36
125	250335	3/36
160	250340	3/36
200	250345	3/36
250	250350	3/36
315	250355	3/36
350	250360	3/36
400	250365	3/36
450	250370	3/36
500	250375	3/36
550	250380	3/36
630	250385	3/36
700	250390	3/36
800	250395	3/36



U **690V AC**
BREAKING CAPACITY **120kA**

I_n (A)	REFERENCE	PACKING Uni /BOX
80	251325	3/21
100	251330	3/21
125	251335	3/21
160	251340	3/21
200	251345	3/21
250	251350	3/21
315	251355	3/21
350	251360	3/21
400	251365	3/21
450	251370	3/21
500	251375	3/21
550	251380	3/21
630	251385	3/21
700	251390	3/21
800	251395	3/21



STANDARDS

IEC/EN 60269-1
IEC/EN 60269-4
UL 248-1
UL248-13

DIMENSIONS

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t-I CUT-OFF CHARACTERISTICS

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SQB square body fuse links

RAPIDPLUS SQUARE BODY (SQB) aR fuse links are specially designed for protection of power semiconductor devices. Typical application comprise protection of diodes, thyristors, triacs and IGBTs, used in power rectifiers, UPS, converters, motor drives, soft starters, solid state relays, photovoltaic inverters, welding inverters and any application in power electronics, where it is necessary to protect power semiconductor devices. Thanks to the design of their melting elements, the materials employed and their construction with solidified sand, these fuses provide excellent characteristics:

- Ultra-fast acting.
- Very good current limiting.
- Very low I^2t values.
- High breaking capacity.
- Excellent cycling capability



U **690V AC**

BREAKING CAPACITY **120kA**

I_n (A)	REFERENCE	PACKING Uni /BOX
80	252325	3/12
100	252330	3/12
125	252335	3/12
160	252340	3/12
200	252345	3/12
250	252350	3/12
315	252355	3/12
350	252360	3/12
400	252365	3/12
450	252370	3/12
500	252375	3/12
550	252380	3/12
630	252385	3/12
700	252390	3/12
800	252395	3/12



U **250V AC**

I_n **4 A**

REFERENCE	DESCRIPTION	PACKING Uni /BOX
357015	MICROSWITCH SYSTEM* FOR aR 690 V SQUARE BODY FUSES	1/10

* Kit includes the striker support, two fixing screws and the microswitch ref.357020



STANDARDS

IEC/EN 60269-1
IEC/EN 60269-4
UL 248-1
UL248-13

DIMENSIONS

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t-I CUT-OFF CHARACTERISTICS

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SQB square body fuse links

RAPIDPLUS SQUARE BODY (SQB) aR fuse links are specially designed for protection of power semiconductor devices. Typical application comprise protection of diodes, thyristors, triacs and IGBTs, used in power rectifiers, UPS, converters, motor drives, soft starters, solid state relays, photovoltaic inverters, welding inverters and any application in power electronics, where it is necessary to protect power semiconductor devices. Thanks to the design of their melting elements, the materials employed and their construction with solidified sand, these fuses provide excellent characteristics:

- Ultra-fast acting.
- Very good current limiting.
- Very low I^2t values.
- High breaking capacity.
- Excellent cycling capability.



U **690V AC**

BREAKING CAPACITY **120kA**

I_n (A)	REFERENCE	PACKING Uni /BOX
400	250425	3
450	250430	3
500	250435	3
550	250440	3
630	250445	3
700	250450	3
800	250455	3
900	250460	3
1000	250465	3



U **690V AC**

BREAKING CAPACITY **120kA**

I_n (A)	REFERENCE	PACKING Uni /BOX
400	251425	1
450	251430	1
500	251435	1
550	251440	1
630	251445	1
700	251450	1
800	251455	1
900	251460	1
1000	251465	1



STANDARDS

IEC/EN 60269-1
IEC/EN 60269-4
UL 248-1
UL248-13

DIMENSIONS

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t-I CUT-OFF CHARACTERISTICS

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SQB | SQB square body fuse links

RAPIDPLUS SQUARE BODY (SQB) aR fuse links are specially designed for protection of power semiconductor devices. Typical application comprise protection of diodes, thyristors, triacs and IGBTs, used in power rectifiers, UPS, converters, motor drives, soft starters, solid state relays, photovoltaic inverters, welding inverters and any application in power electronics, where it is necessary to protect power semiconductor devices. Thanks to the design of their melting elements, the materials employed and their construction with solidified sand, these fuses provide excellent characteristics:

- Ultra-fast acting.
- Very good current limiting.
- Very low I^2t values.
- High breaking capacity.
- Excellent cycling capability



U **690V AC**

BREAKING CAPACITY **120kA**

I_n (A)	REFERENCE	PACKING Uni /BOX
400	252425	1
450	252430	1
500	252435	1
550	252440	1
630	252445	1
700	252450	1
800	252455	1
900	252460	1
1000	252465	1



U **250V AC**

I_n **4 A**

REFERENCE	DESCRIPTION	PACKING Uni /BOX
357015	MICROSWITCH SYSTEM* FOR aR 690 V SQUARE BODY FUSES	1/10

* Kit includes the striker support, two fixing screws and the microswitch ref.357020



STANDARDS

IEC/EN 60269-1
IEC/EN 60269-4
UL 248-1
UL248-13

DIMENSIONS

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t-I CUT-OFF CHARACTERISTICS

PAGE 64

SQB square body fuse links

RAPIDPLUS SQUARE BODY (SQB) aR fuse links are specially designed for protection of power semiconductor devices. Typical application comprise protection of diodes, thyristors, triacs and IGBTs, used in power rectifiers, UPS, converters, motor drives, soft starters, solid state relays, photovoltaic inverters, welding inverters and any application in power electronics, where it is necessary to protect power semiconductor devices. Thanks to the design of their melting elements, the materials employed and their construction with solidified sand, these fuses provide excellent characteristics:

- Ultra-fast acting.
- Very good current limiting.
- Very low I^2t values.
- High breaking capacity.
- Excellent cycling capability.



U **690V AC**

BREAKING CAPACITY **120kA**

I_n (A)	REFERENCE	PACKING Uni /BOX
500	250525	3
550	250530	3
630	250535	3
700	250540	3
800	250545	3
900	250550	3
1000	250555	3
1100	250560	3
1250	250565	3
1400	250570	3



U **690V AC**

BREAKING CAPACITY **120kA**

I_n (A)	REFERENCE	PACKING Uni /BOX
500	251525	1
550	251530	1
630	251535	1
700	251540	1
800	251545	1
900	251550	1
1000	251555	1
1100	251560	1
1250	251565	1
1400	251570	1



STANDARDS

IEC/EN 60269-1
IEC/EN 60269-4
UL 248-1
UL248-13

DIMENSIONS

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t-I CUT-OFF CHARACTERISTICS

PAGE 64

SQB square body fuse links

RAPIDPLUS SQUARE BODY (SQB) aR fuse links are specially designed for protection of power semiconductor devices. Typical application comprise protection of diodes, thyristors, triacs and IGBTs, used in power rectifiers, UPS, converters, motor drives, soft starters, solid state relays, photovoltaic inverters, welding inverters and any application in power electronics, where it is necessary to protect power semiconductor devices. Thanks to the design of their melting elements, the materials employed and their construction with solidified sand, these fuses provide excellent characteristics:

- Ultra-fast acting.
- Very good current limiting.
- Very low I^2t values.
- High breaking capacity.
- Excellent cycling capability



U **690V AC**
BREAKING CAPACITY **120kA**

I_n (A)	REFERENCE	PACKING Uni /BOX
500	252525	1
550	252530	1
630	252535	1
700	252540	1
800	252545	1
900	252550	1
1000	252555	1
1100	252560	1
1250	252565	1
1400	252570	1



U **250V AC**
 I_n **4 A**

REFERENCE	DESCRIPTION	PACKING Uni /BOX
357015	MICROSWITCH SYSTEM* FOR aR 690 V SQUARE BODY FUSES	1/10

* Kit includes the striker support, two fixing screws and the microswitch ref.357020



STANDARDS

IEC/EN 60269-1
IEC/EN 60269-4
UL 248-1
UL248-13

DIMENSIONS

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t-I CUT-OFF CHARACTERISTICS

PAGE 64

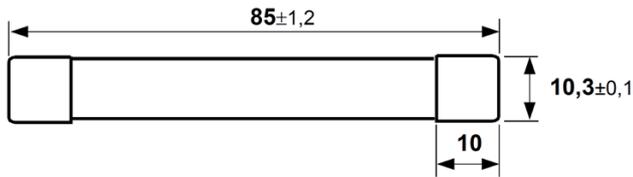


gS
CYLINDRICAL
fuse links

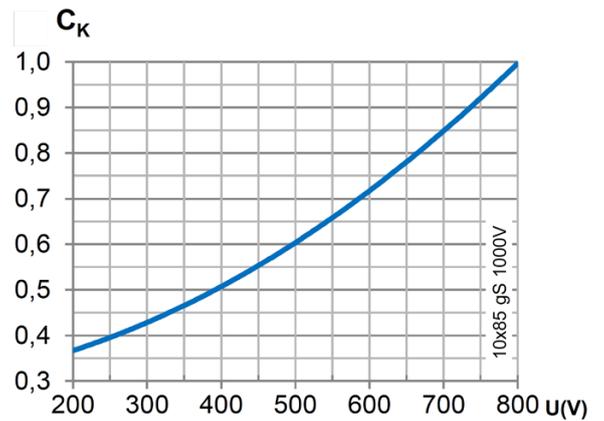
RATED VOLTAGE	RATED CURRENT	BREAKING CAPACITY
1000V AC/DC	1A...20A	30kA AC
		10kA DC



DIMENSIONS



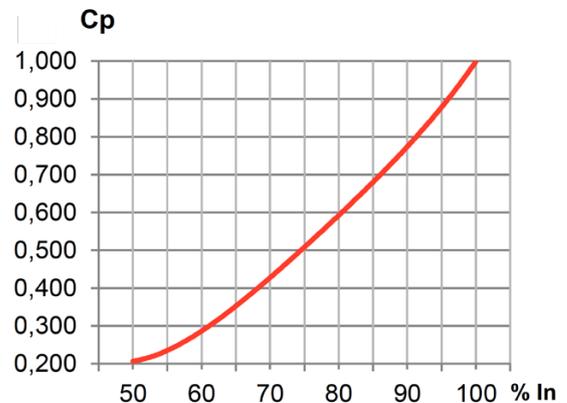
I²t CORRECTION FACTOR (K)



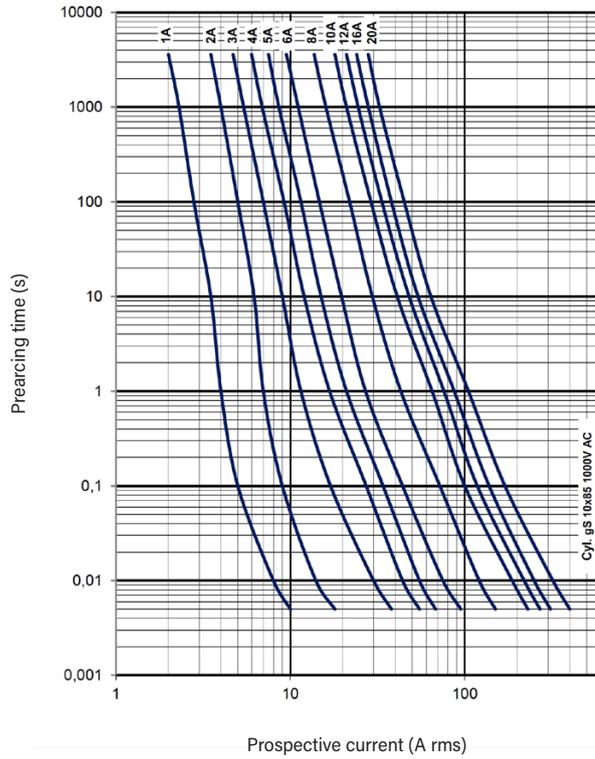
POWER DISSIPATION

I _n (A)	PREARcing I ² t (A ² S)	OPERATING I ² t @1000V (A ² S)	POWER LOSS 0.8 · I _n (W)	POWER LOSS I _n (W)
1	0,2	0,42	0,45	0,75
2	2	4,4	0,6	1
3	14	19	0,65	1,1
4	41	56	0,7	1,2
5	80	107	0,77	1,3
6	12	44	0,89	1,5
8	46	176	0,93	1,6
10	74	240	1	1,7
12	145	470	1,06	1,8
16	190	615	1,82	3,1
20	415	1380	1,95	3,3

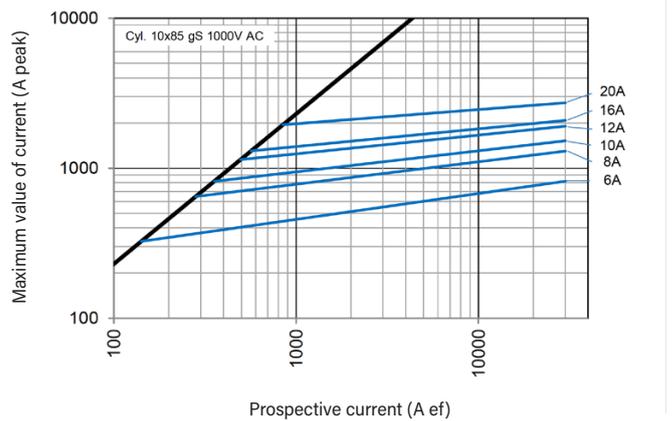
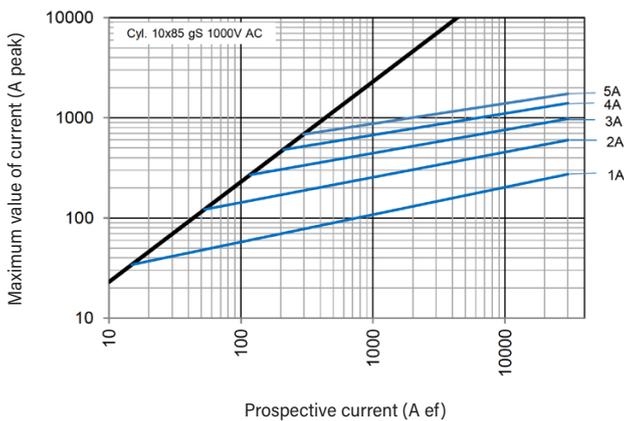
CORRECTION FACTOR FOR POWER LOSS (Cp)



t-I CHARACTERISTICS



CUT-OFF CHARACTERISTICS



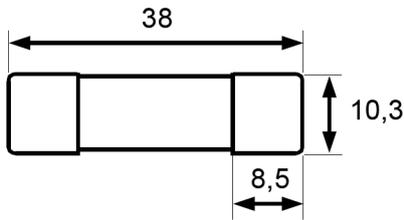


gR
CYLINDRICAL
fuse links

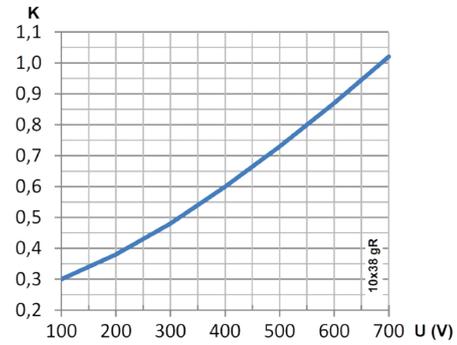
RATED VOLTAGE	RATED CURRENT	BREAKING CAPACITY
690V AC ^{UL/IEC} 440V DC ^{IEC}	1A...32A	200kA (690V AC) 30kA (440V DC)



DIMENSIONS



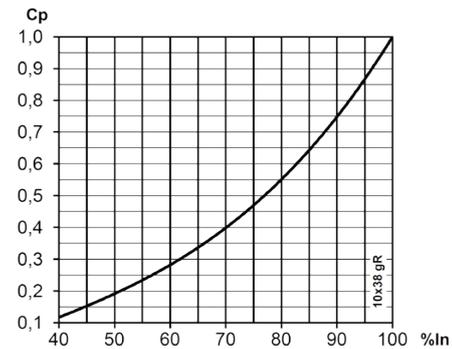
I²t CORRECTION FACTOR (K)



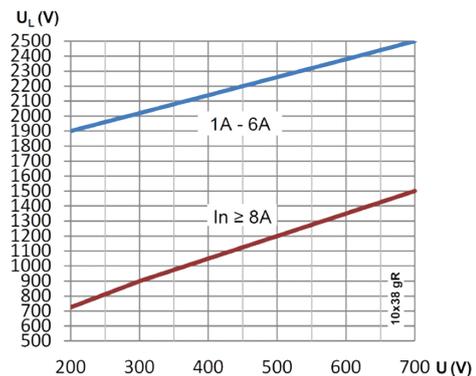
POWER DISSIPATION

I _n (A)	I ² _t PREARcing (A ² S)	OPERATING I ² _t @690V (A ² S)	POWER LOSS 0.8 · I _n (W)	POWER LOSS I _n (W)
1	0,20	1,2	0,45	0,75
2	0,80	2,6	0,75	1,40
3	2,5	8,0	0,95	1,70
4	5,6	17	1,13	2,05
6	16,0	48	1,56	3,00
8	4,3	38	0,97	1,68
10	6,6	59	1,20	2,09
12	9,6	84	1,69	2,99
16	17,0	150	2,31	4,27
20	23,5	200	2,86	5,35
25	60,2	512	2,94	5,52
32	94,0	800	3,82	7,43

CORRECTION FACTOR FOR POWER LOSS (C_p)



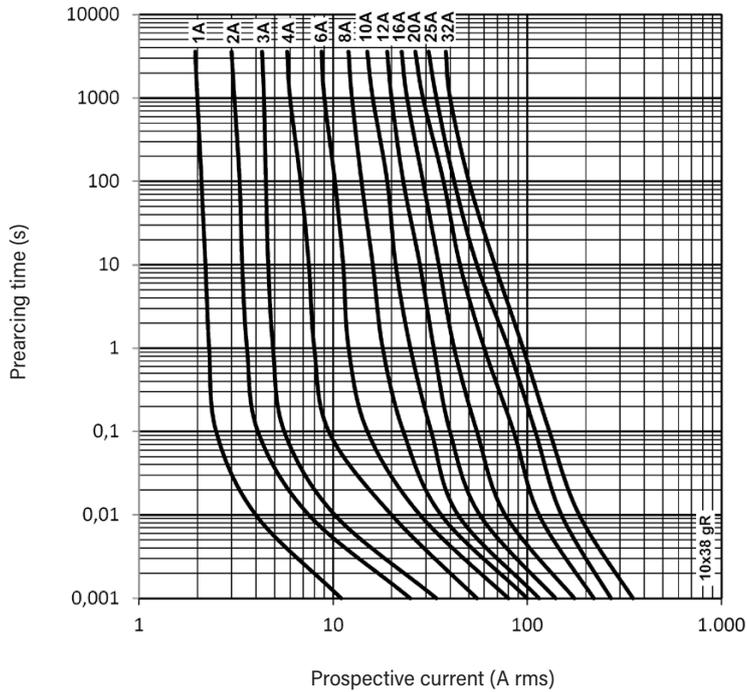
PEAK ARC VOLTAGE (U_L)



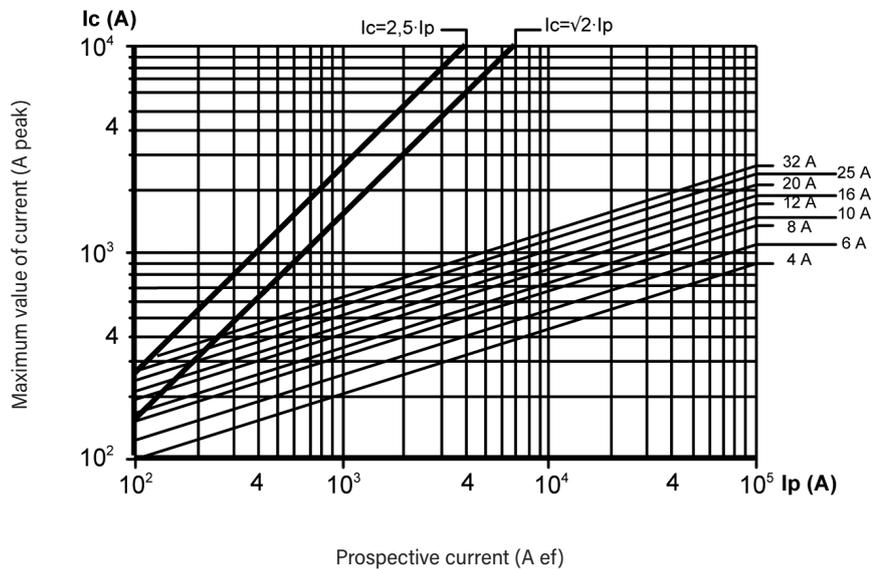


gR
CYLINDRICAL
fuse links

t-I CHARACTERISTICS



CUT-OFF CHARACTERISTICS



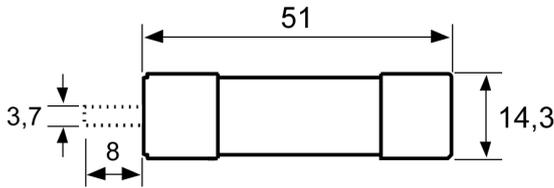


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CYLINDRICAL
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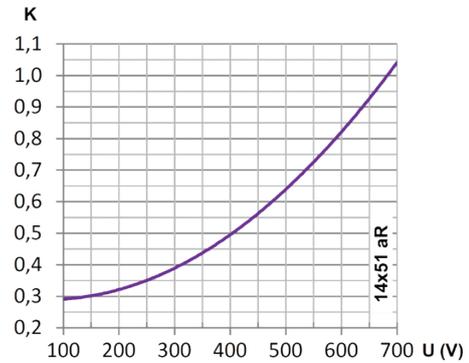
RATED VOLTAGE	RATED CURRENT	BREAKING CAPACITY
690V AC ^{UL/IEC} 440V DC ^{IEC}	4A...50A	200kA (690V AC) 30kA (440V DC)



DIMENSIONS



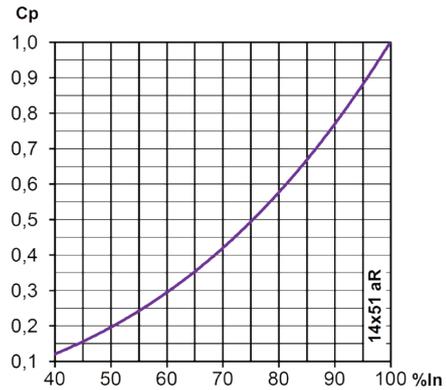
I²t CORRECTION FACTOR (K)



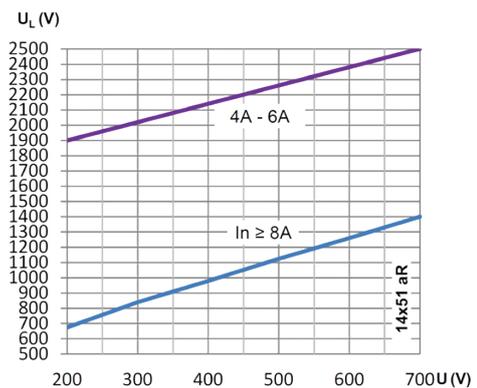
POWER DISSIPATION

I _n (A)	I ² _t PREARcing (A ² S)	OPERATING I ² _t @690V (A ² S)	POWER LOSS 0.8 · I _n (W)	POWER LOSS I _n (W)
4	5,6	17	1,56	2,94
6	16,0	48	2,25	4,20
8	3,8	30	1,18	2,00
10	5,9	47	1,41	2,52
12	8,4	68	1,95	3,54
16	15	120	2,67	4,83
20	27	170	2,91	5,40
25	53	333	3,38	6,00
32	108	679	3,72	6,93
40	211	1331	4,13	7,52
50	350	2200	5,36	9,80

CORRECTION FACTOR FOR POWER LOSS (Cp)



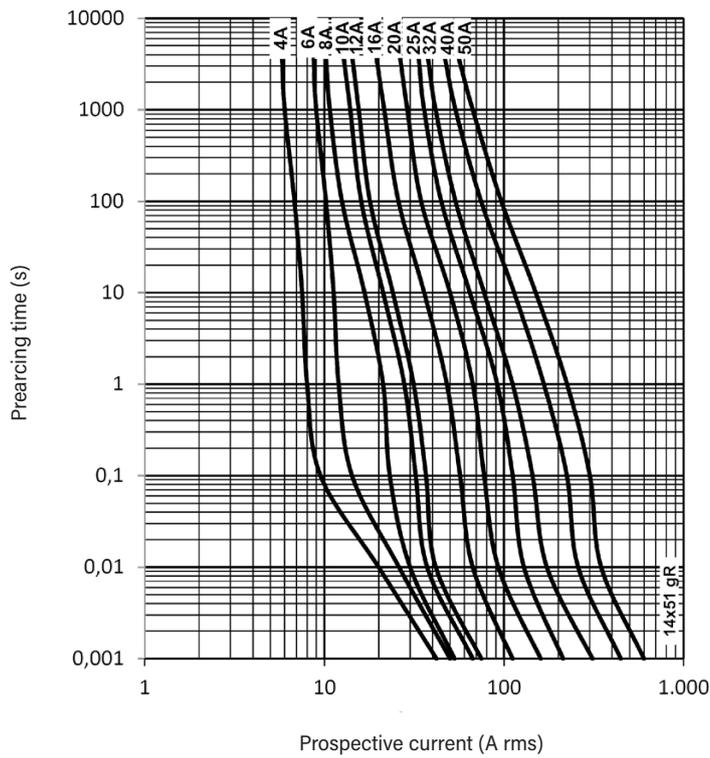
PEAK ARC VOLTAGE (U_L)



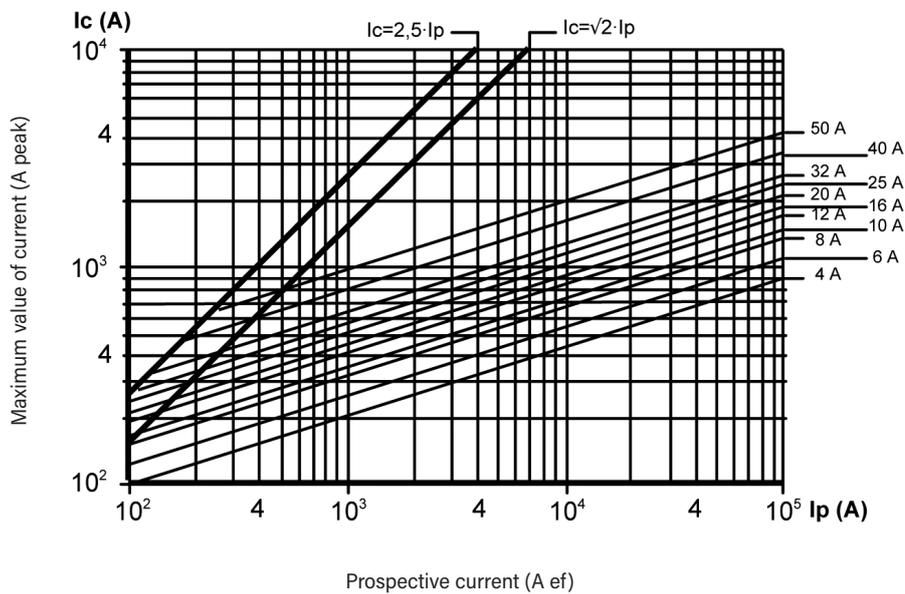


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CYLINDRICAL
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t-I CHARACTERISTICS



CUT-OFF CHARACTERISTICS



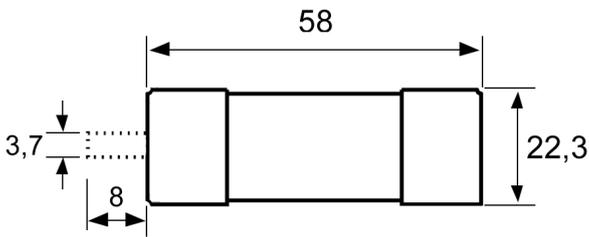


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CYLINDRICAL
fuse links

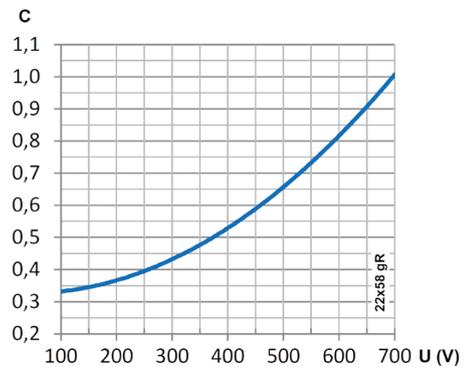
RATED VOLTAGE	RATED CURRENT	BREAKING CAPACITY
690V AC ^{UL/IEC} 440V DC ^{IEC}	20A...100A	200kA (690V AC) 30kA (440V DC)



DIMENSIONS



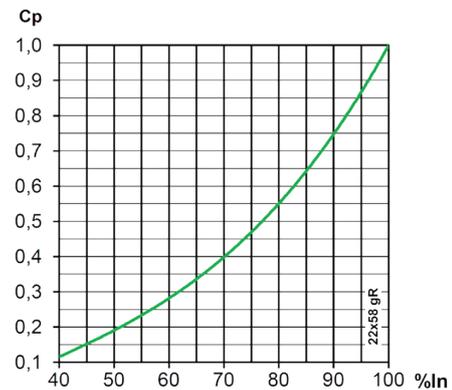
I²t CORRECTION FACTOR (K)



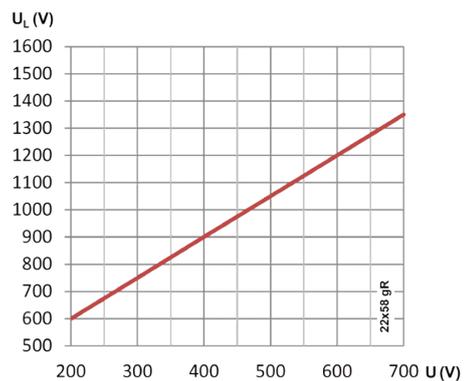
POWER DISSIPATION

I _n (A)	I ² _t PREARcing (A ² S)	OPERATING I ² _t @690V (A ² S)	POWER LOSS 0.8 · I _n (W)	POWER LOSS I _n (W)
20	19	103	3,00	5,25
25	34	182	3,40	5,85
32	60	324	4,50	8,20
40	94	506	6,10	10,80
50	158	856	7,50	13,70
63	375	2025	7,70	14,00
80	634	3422	9,65	17,60
100	1500	8100	10,30	18,00

CORRECTION FACTOR FOR POWER LOSS (C_p)



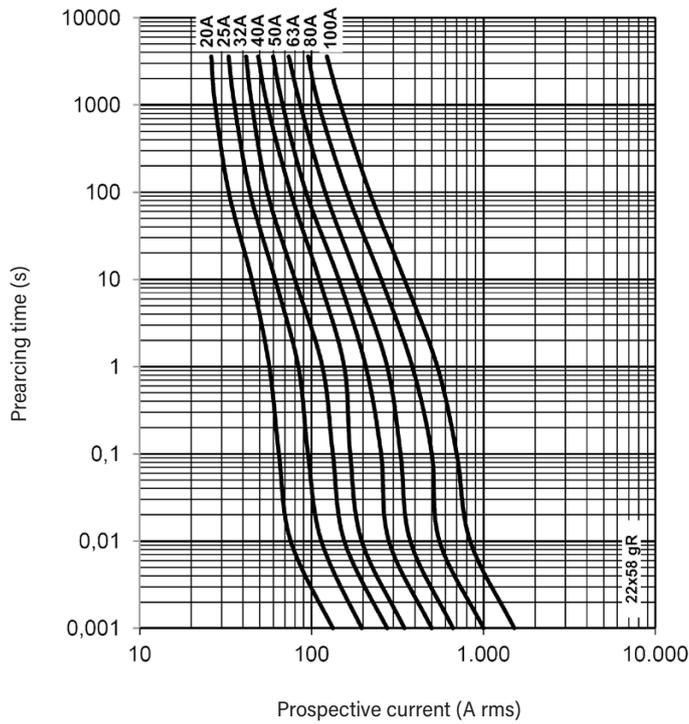
PEAK ARC VOLTAGE (U_L)



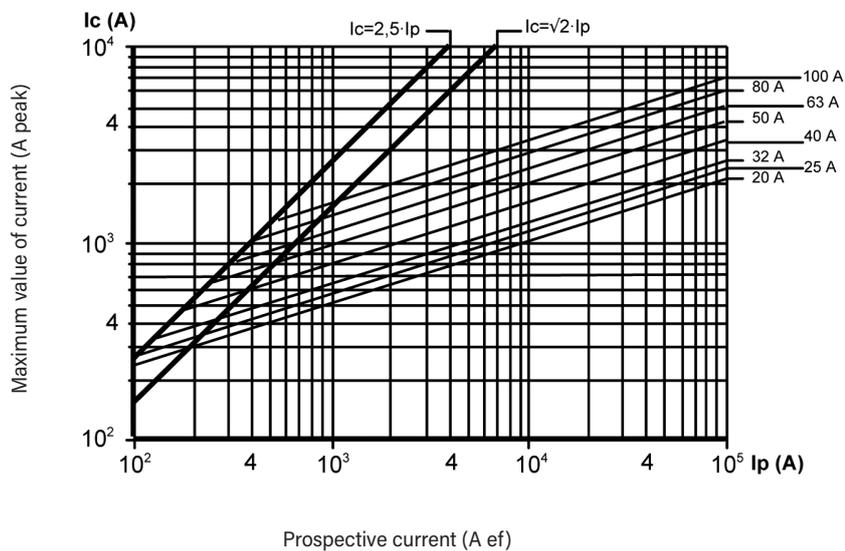


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CYLINDRICAL
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t-I CHARACTERISTICS



CUT-OFF CHARACTERISTICS

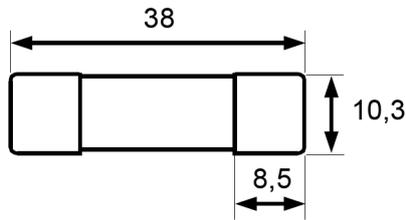


CYL 10x38 **aR**
CYLINDRICAL
fuse links

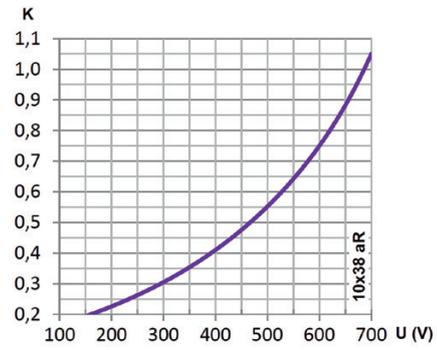
RATED VOLTAGE	RATED CURRENT	BREAKING CAPACITY
690V AC ^{UL/IEC} 700V DC ^{IEC}	1A...32A	200kA (690V AC) 30kA (700V DC)



DIMENSIONS



I²t CORRECTION FACTOR (K)

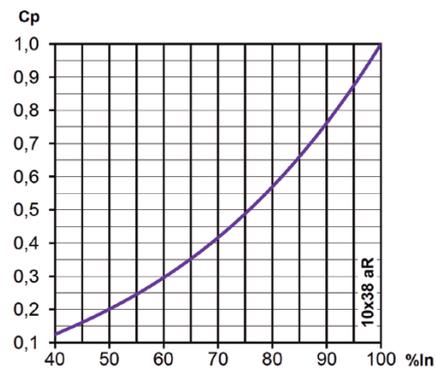


POWER DISSIPATION

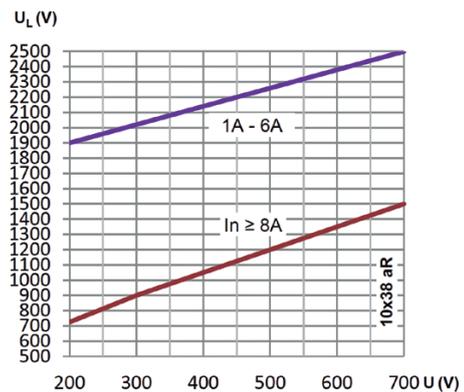
I _n (A)	I _t PREARcing (A ² S)	OPERATING I _t @690V (A ² S)	POWER LOSS 0.8 · I _n (W)	POWER LOSS I _n (W)
1*	0,20	1,2	0,45	0,75
2	0,80	2,6	0,75	1,40
3	2,5	8,0	0,95	1,70
4	4,9	10	0,97	1,69
6	14,0	28	1,4	2,46
8	3,0	24	0,91	1,52
10	4,7	38	1,23	2,07
12	6,8	54	1,53	2,62
16	12,0	96	2,11	3,72
20	18,8	150	2,57	4,50
25	48,0	384	2,60	4,55
32	75,0	600	3,65	6,65

* not UL certified

CORRECTION FACTOR FOR POWER LOSS (C_p)



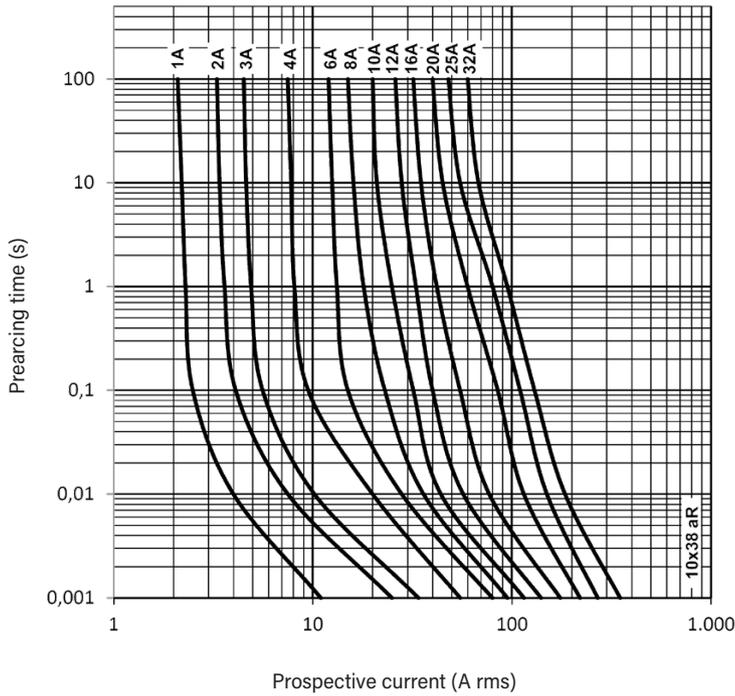
PEAK ARC VOLTAGE (U_L)



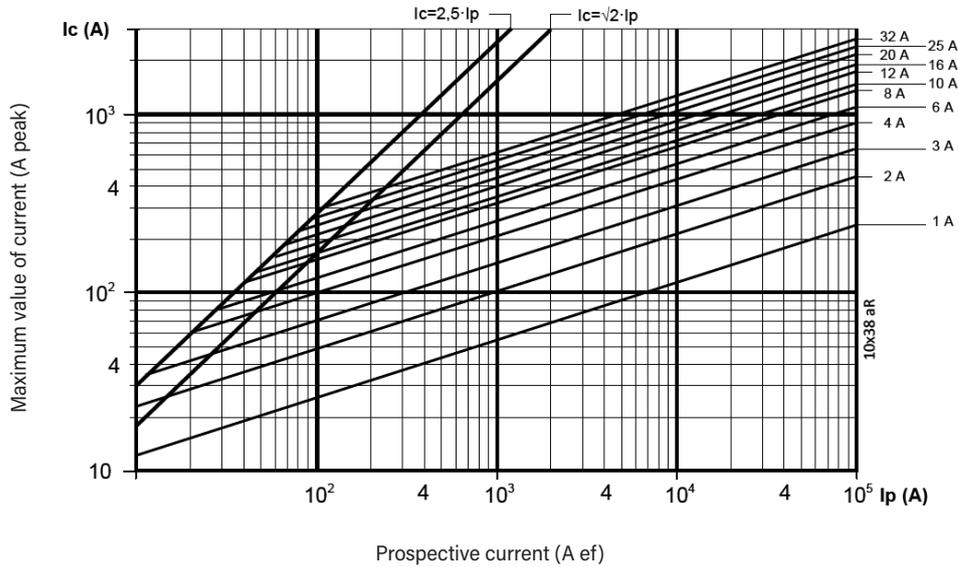


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t-I CHARACTERISTICS



CUT-OFF CHARACTERISTICS



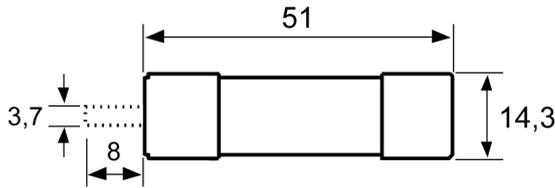


aR CYLINDRICAL fuse links

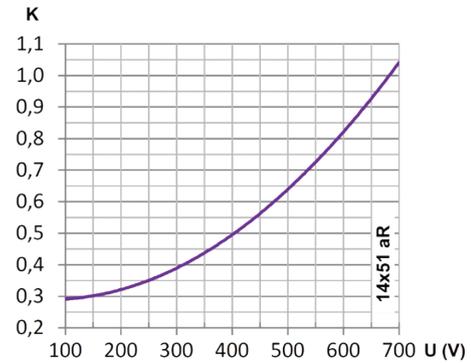
RATED VOLTAGE	RATED CURRENT	BREAKING CAPACITY
690V AC ^{UL/IEC} 700V DC ^{IEC}	4A...50A	200kA (690V AC) 30kA (700V DC)



DIMENSIONS



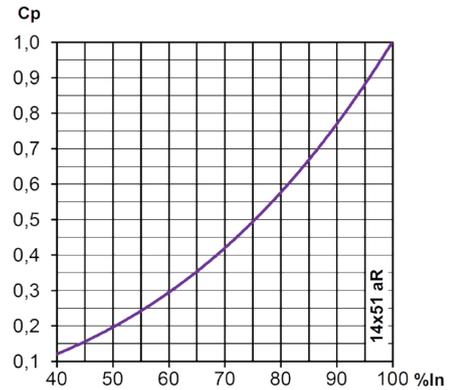
I²t CORRECTION FACTOR (K)



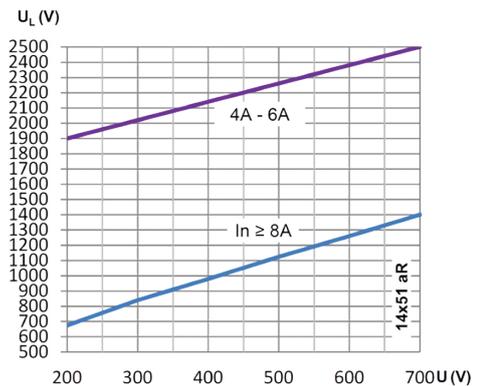
POWER DISSIPATION

I _n (A)	I ² _t PREARcing (A ² S)	OPERATING I ² _t @690V (A ² S)	POWER LOSS 0.8 · I _n (W)	POWER LOSS I _n (W)
4	5,6	14	1,32	2,28
6	16,0	40	1,80	3,18
8	4,1	23	1,01	1,69
10	6,3	37	1,39	2,36
12	9,1	53	1,63	2,78
16	12,4	72	2,43	4,16
20	20,6	119	3,04	5,43
25	36,6	211	3,75	6,11
32	82,3	475	3,92	7,17
40	146,3	844	4,52	8,15
50	260,0	1500	5,60	10,6

CORRECTION FACTOR FOR POWER LOSS (Cp)



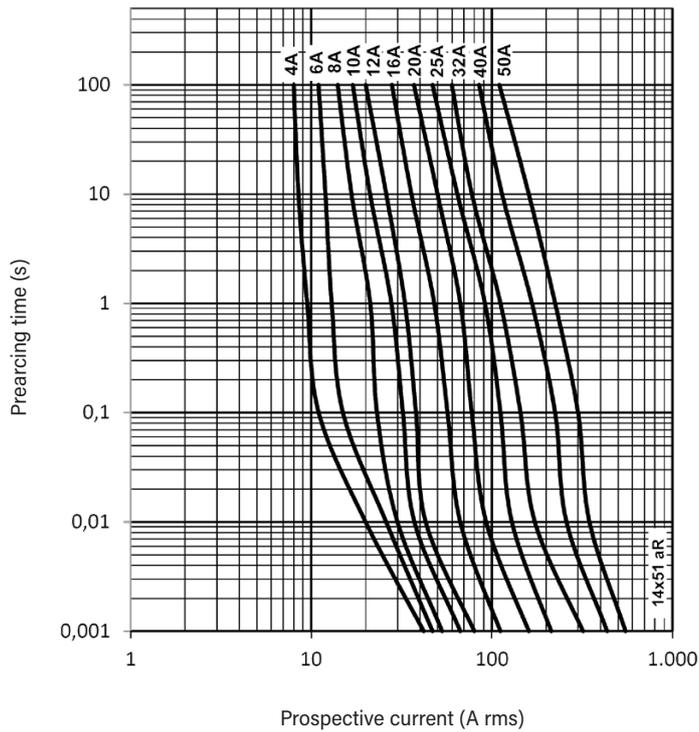
PEAK ARC VOLTAGE (U_L)



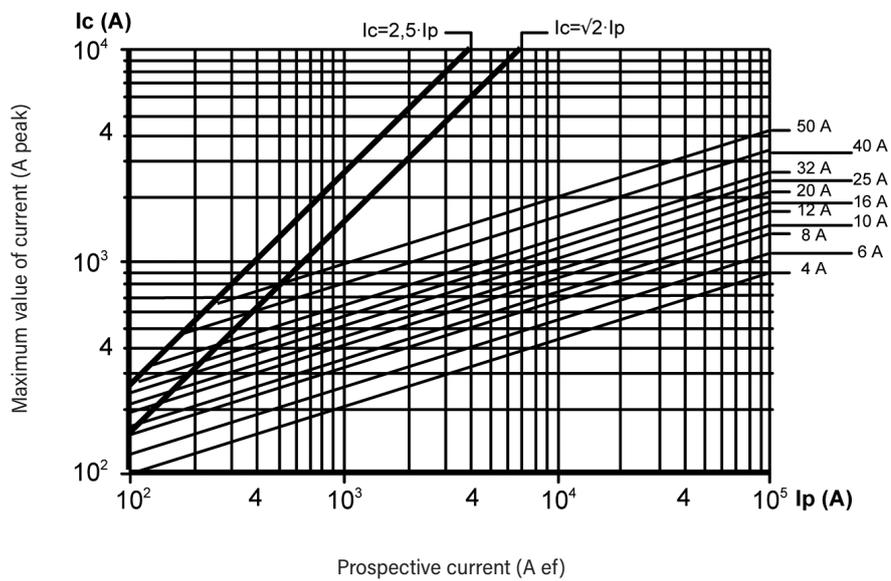


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t-I CHARACTERISTICS



CUT-OFF CHARACTERISTICS



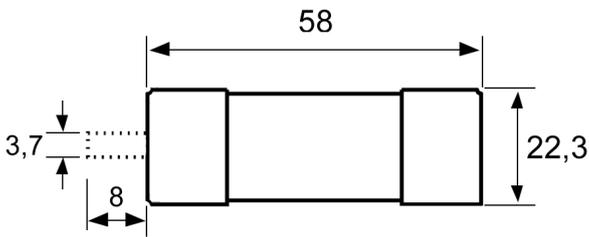


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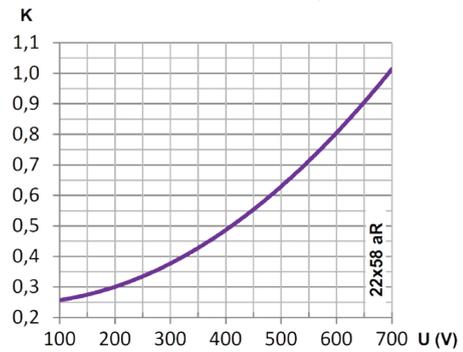
RATED VOLTAGE	RATED CURRENT	BREAKING CAPACITY
690V AC ^{UL/IEC} 700V DC ^{IEC}	20A...100A	200kA (690V AC) 30kA (700V DC)



DIMENSIONS



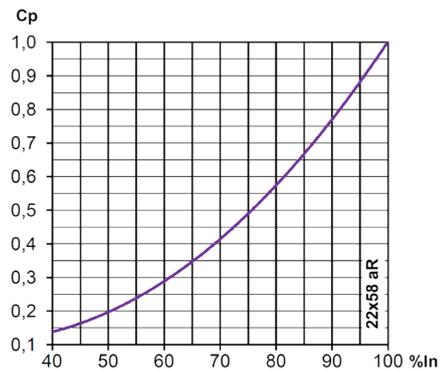
I²t CORRECTION FACTOR (K)



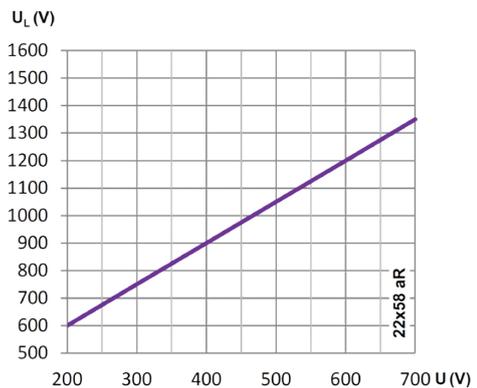
POWER DISSIPATION

I _n (A)	I ² _t PREARcing (A ² S)	OPERATING I ² _t @690V (A ² S)	POWER LOSS 0.8 · I _n (W)	POWER LOSS I _n (W)
20	19	103	3,00	5,25
25	34	182	3,40	5,85
32	60	324	4,50	8,20
40	94	506	6,10	10,80
50	158	856	7,50	13,70
63	375	2025	7,70	14,00
80	634	3422	9,65	17,60
100	1500	8100	10,30	18,00

CORRECTION FACTOR FOR POWER LOSS (Cp)



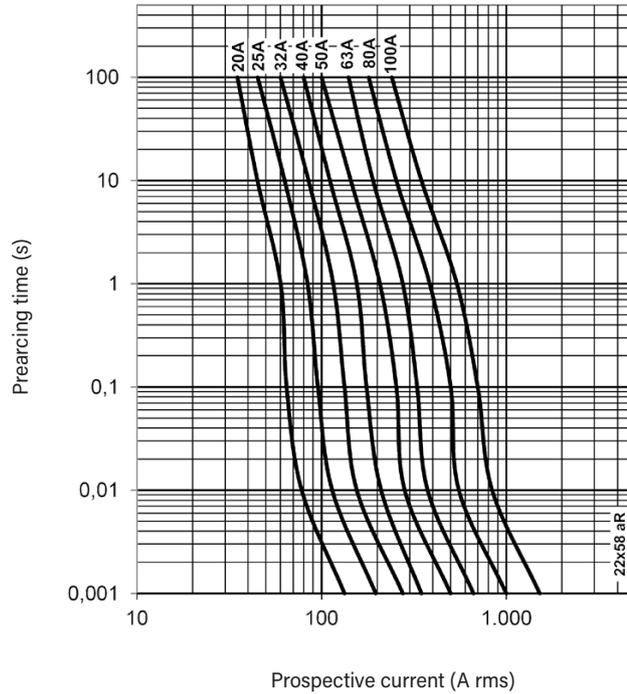
PEAK ARC VOLTAGE (U_L)



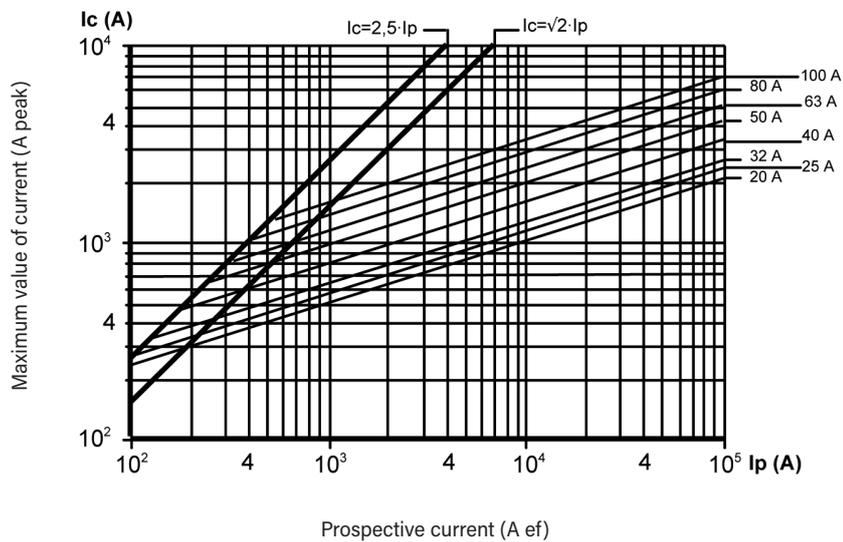


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CYLINDRICAL
fuse links

t-I CHARACTERISTICS



CUT-OFF CHARACTERISTICS





gS
NH 690V
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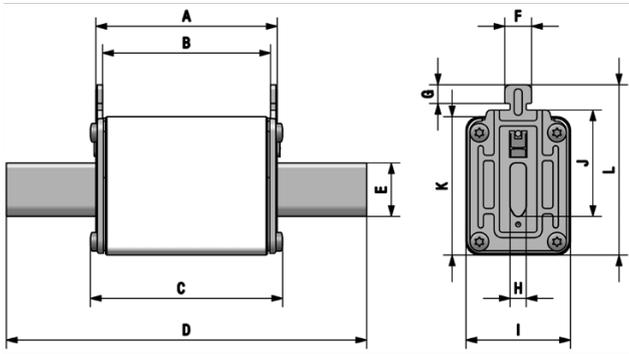
RATED VOLTAGE
690V AC

RATED CURRENT
20A...160A

BREAKING CAPACITY
100kA (690V AC)
30kA (440V DC)



DIMENSIONS



	A	B	C	D	E	F	G	H	I	J	K	L
NH000	49	45	52	78,5	15	10	9,5	6	21	35	40	53
NH00*	49	44	52	78,5	15	10	9,5	6	29	35	47	59

* only available in gS semiconductor fuse links

POWER DISSIPATION

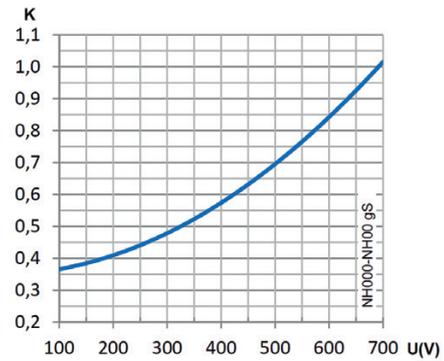
I_n	I_t^2 PREARcing	OPERATING I_t^2	POWER LOSS	POWER LOSS
(A)	(A ² S)	@690V (A ² S)	$0.8 \cdot I_n$ (W)	I_n (W)
20	31	116	2,9	5,1
25	49	181	3,2	5,6
32	96	355	3,9	6,6
40	196	724	4,2	7,2
50	331	1.224	5,1	8,5
63	782	2.897	5,3	9,1
80	1.420	5.270	6,3	11,0
100	2.130	7.880	7,6	13,3



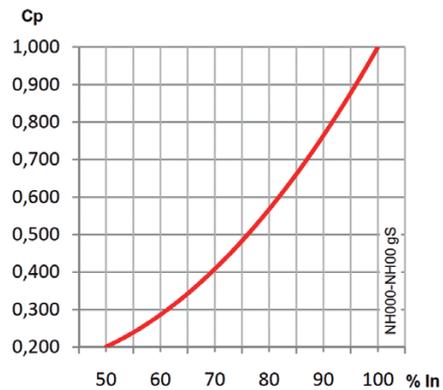
125	3.380	11.550	8,3	14,7
160	6.400	21.840	10,5	18,2



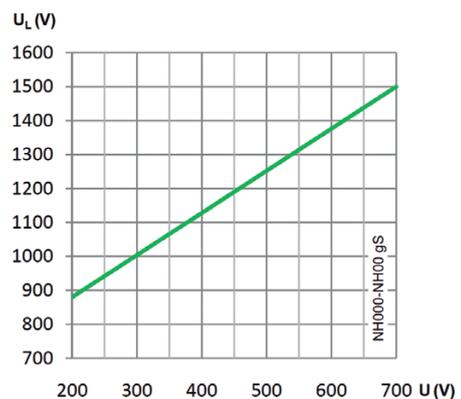
I²t CORRECTION FACTOR (K)



CORRECTION FACTOR FOR POWER LOSS (Cp)



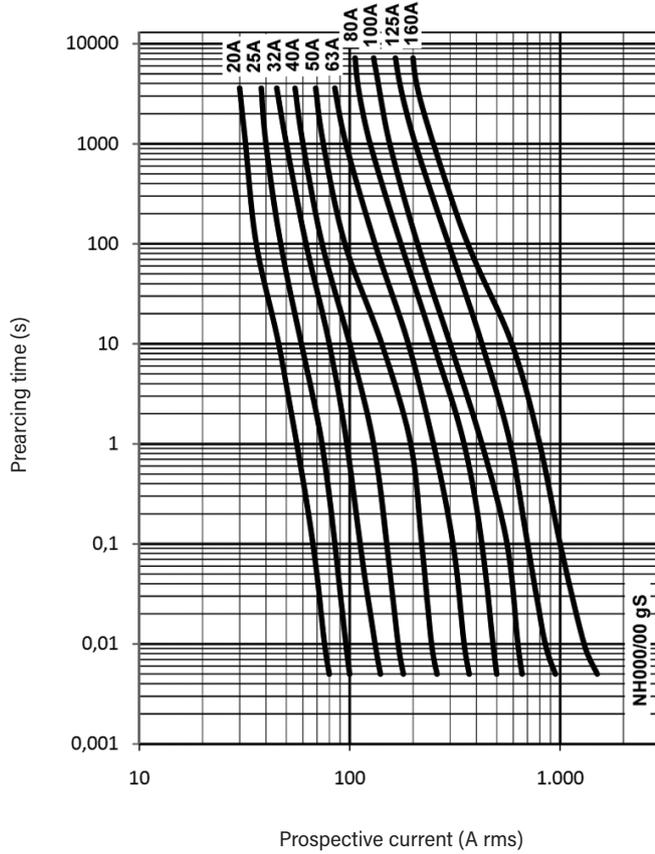
PEAK ARC VOLTAGE (U_L)



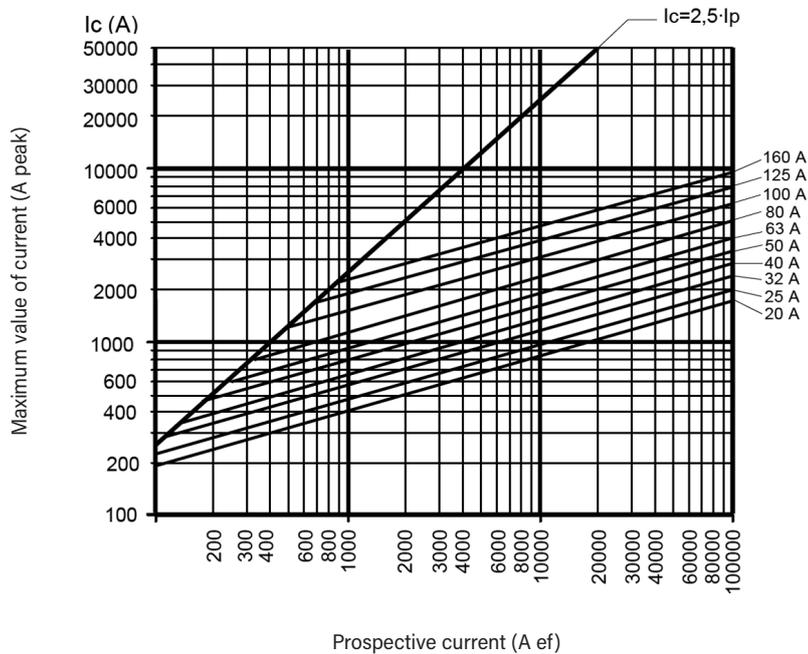


gS
NH 690V
fuse links

t-I CHARACTERISTICS



CUT-OFF CHARACTERISTICS



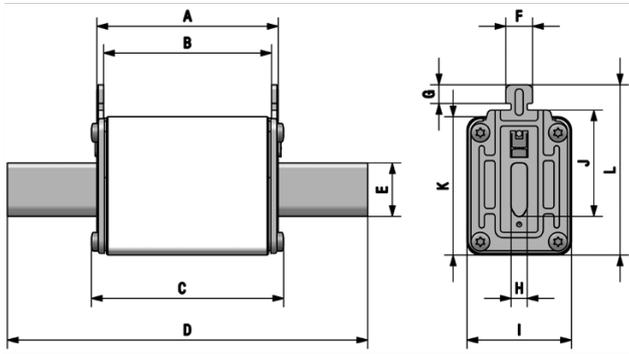


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NH 690V
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RATED VOLTAGE	RATED CURRENT	BREAKING CAPACITY
690V AC	125A...280A	100kA (690V AC)
		30kA (550V DC)



DIMENSIONS

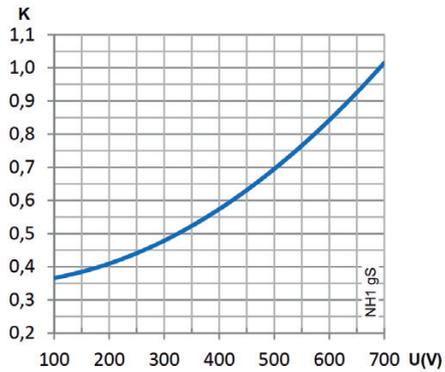


A	B	C	D	E	F	G	H	I	J	K	L
68	62	71,5	135	20	10	9,5	6	39	40	52	64

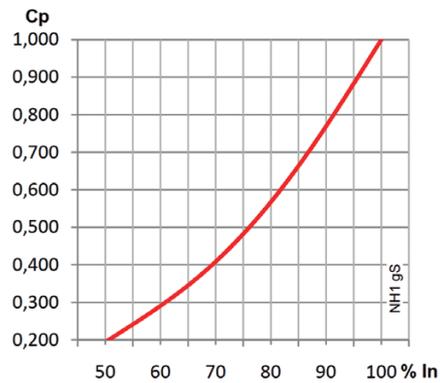
POWER DISSIPATION

I_n	I^2t PREARcing	OPERATING I^2t @690V	POWER LOSS $0.8 \cdot I_n$	POWER LOSS I_n
(A)	(A ² S)	(A ² S)	(W)	(W)
125	3.800	11.680	10,7	19,7
160	6.290	19.300	14,5	25,3
200	15.220	46.720	15	26,2
250	25.160	77.230	19,5	33,2
280	37.590	115.370	20,1	35,7

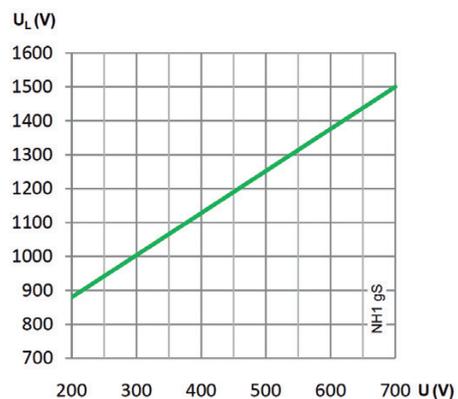
I^2t CORRECTION FACTOR (K)



CORRECTION FACTOR FOR POWER LOSS (Cp)



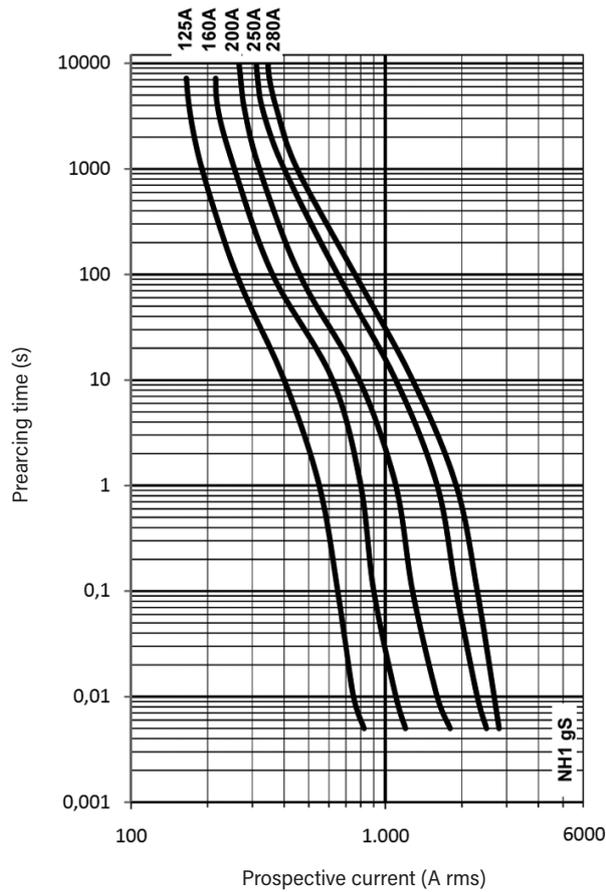
PEAK ARC VOLTAGE (U_L)



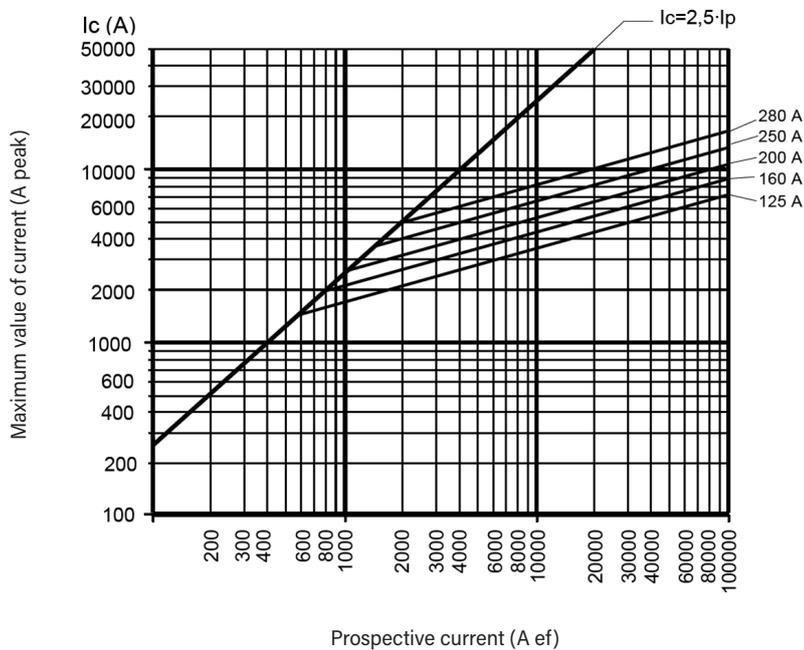


gS
NH 690V
fuse links

t-I CHARACTERISTICS



CUT-OFF CHARACTERISTICS



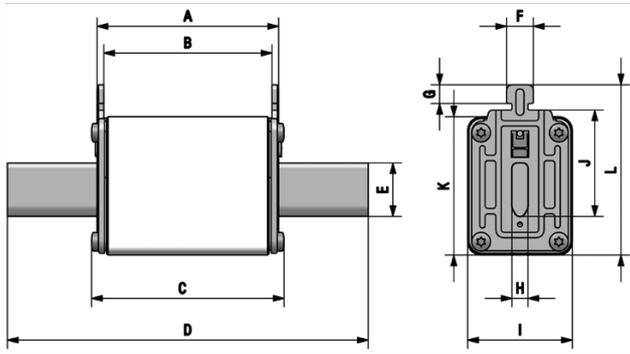


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NH 690V
fuse links

RATED VOLTAGE	RATED CURRENT	BREAKING CAPACITY
690V AC	250A...450A	100kA (690V AC)
		30kA (550V DC)



DIMENSIONS

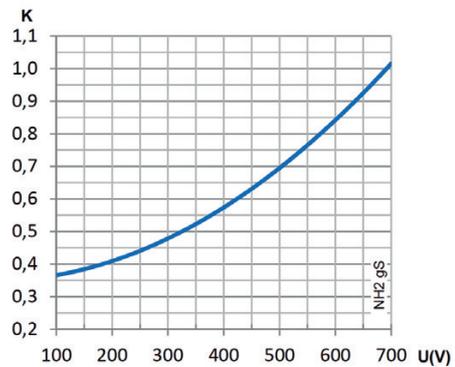


A	B	C	D	E	F	G	H	I	J	K	L
68	62	71,5	150	25	10	9,5	6	53	48	60	72

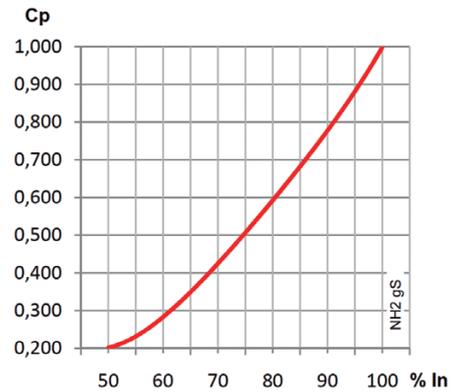
POWER DISSIPATION

I_n	I_t^2 PREARcing	OPERATING I_t^2	POWER LOSS	POWER LOSS
(A)	(A ² S)	@690V (A ² S)	$0.8 \cdot I_n$ (W)	I_n (W)
250	24.280	74.460	18,6	32,2
315	50.660	155.360	20,8	35,8
355	67.450	206.850	23,4	40,1
400	100.770	309.000	24,4	42,6
450	140.740	431.580	33,9	47,2

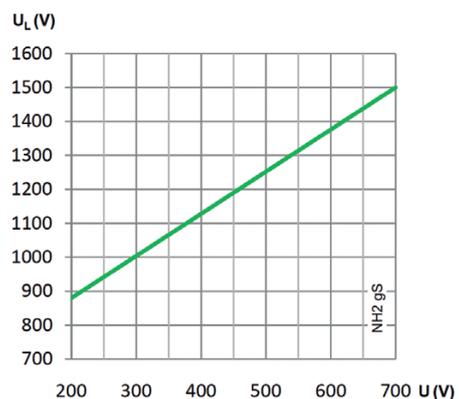
I^2t CORRECTION FACTOR (K)



CORRECTION FACTOR FOR POWER LOSS (Cp)



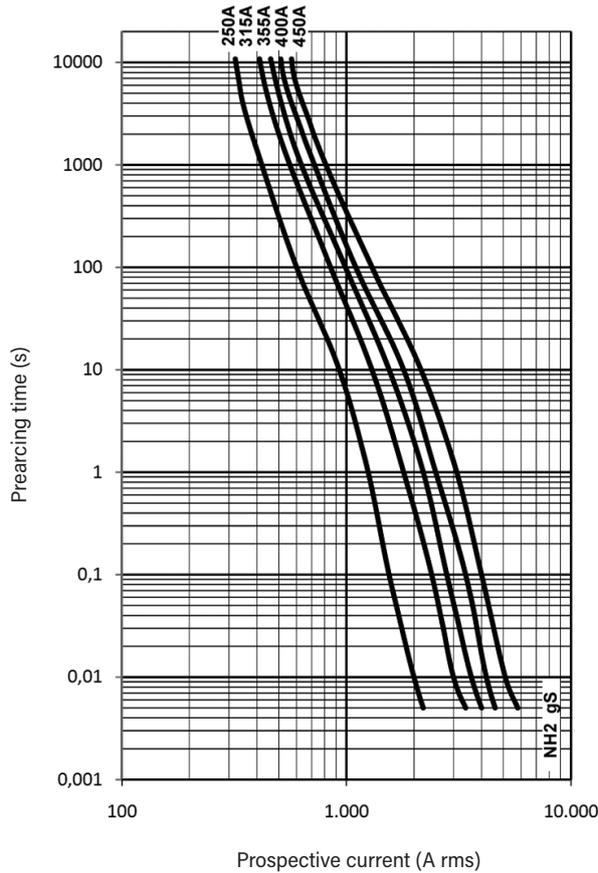
PEAK ARC VOLTAGE (U_L)



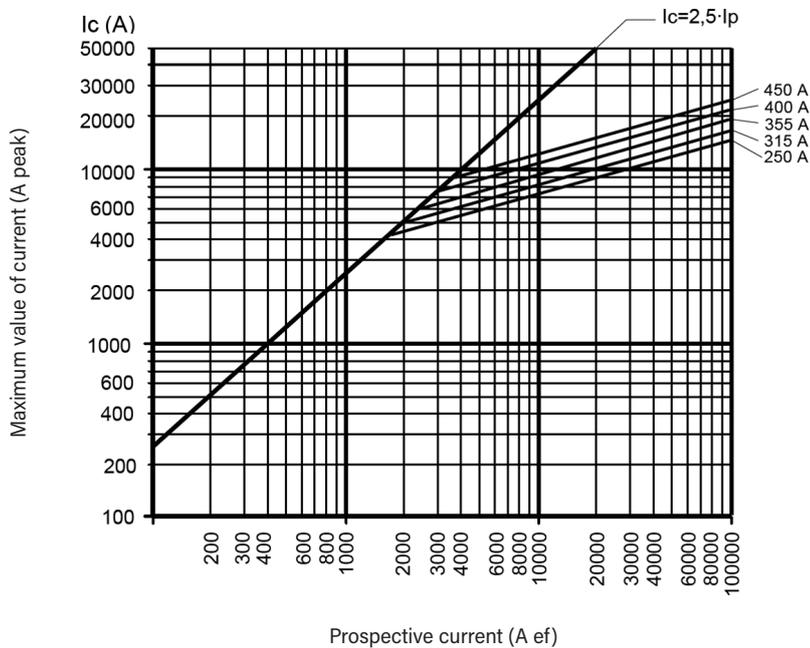


gS
NH 690V
fuse links

t-I CHARACTERISTICS



CUT-OFF CHARACTERISTICS



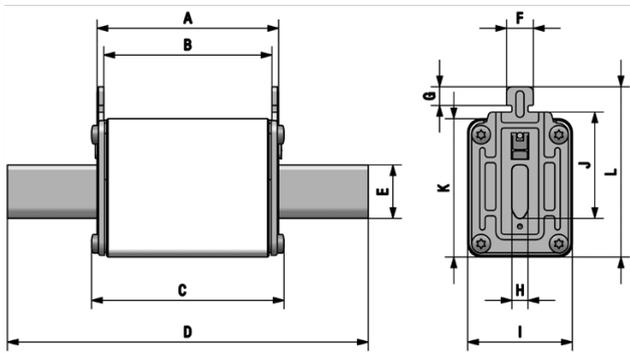


gS
NH 690V
fuse links

RATED VOLTAGE	RATED CURRENT	BREAKING CAPACITY
690V AC	355A...630A	100kA (690V AC)
		30kA (550V DC)



DIMENSIONS

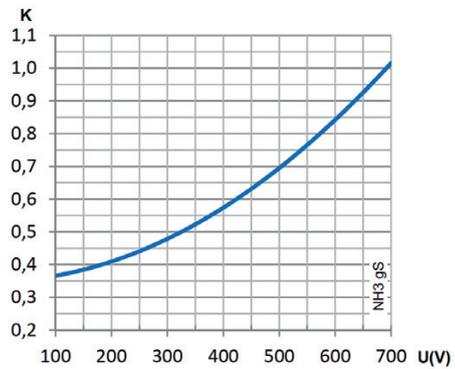


A	B	C	D	E	F	G	H	I	J	K	L
68	62	73	150	32	10	9,5	6	70	60	75	87

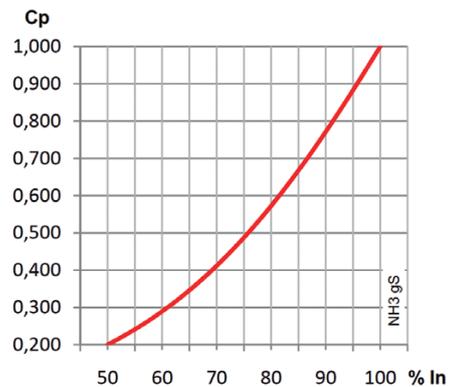
POWER DISSIPATION

I_n	I_t^2 PREARcing	OPERATING I_t^2 @690V	POWER LOSS $0.8 \cdot I_n$	POWER LOSS I_n
(A)	(A ² S)	(A ² S)	(W)	(W)
355	54.240	151.700	22,7	39,6
400	75.760	211.900	24,3	42,7
450	114.770	320.970	26,3	46,0
500	165.270	462.200	27,6	47,1
630	303.060	847.570	34,3	60,4

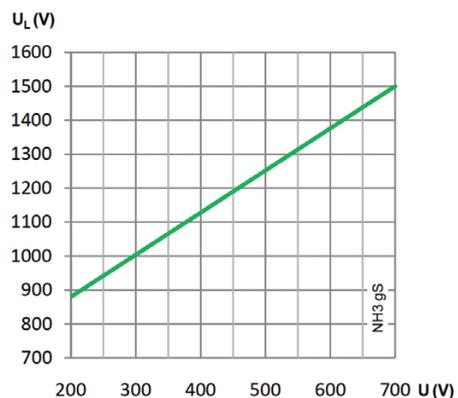
I^2t CORRECTION FACTOR (K)



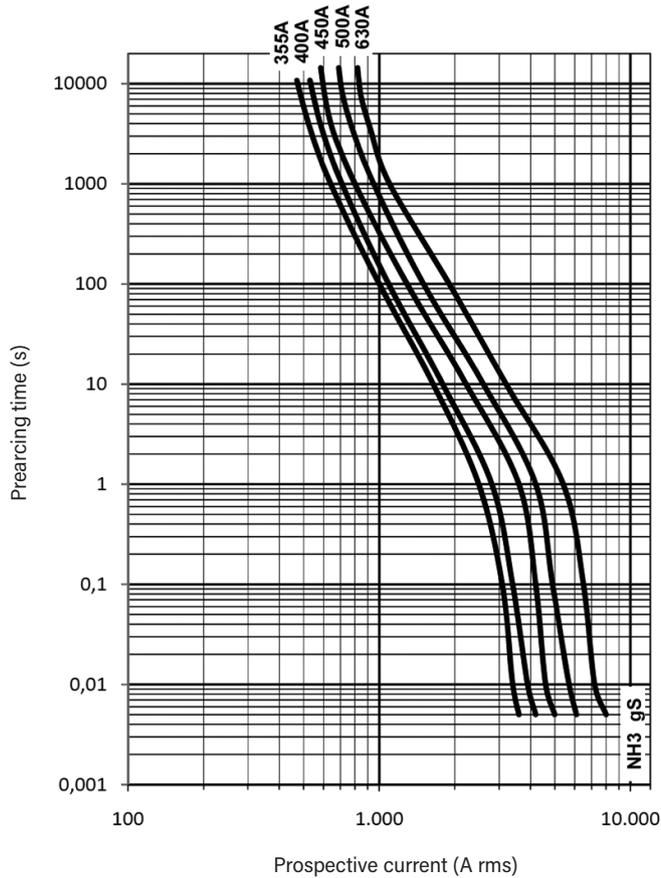
CORRECTION FACTOR FOR POWER LOSS (Cp)



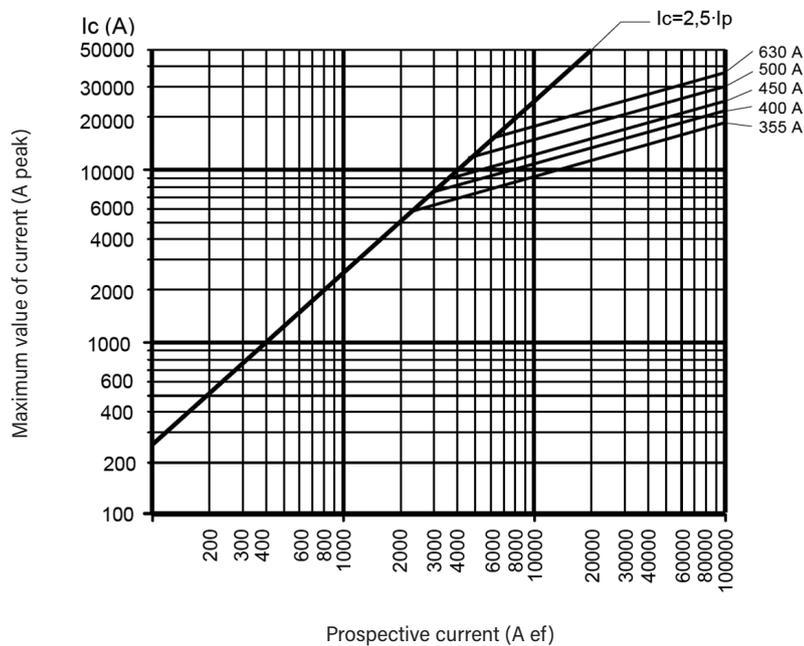
PEAK ARC VOLTAGE (U_L)



t-I CHARACTERISTICS



CUT-OFF CHARACTERISTICS



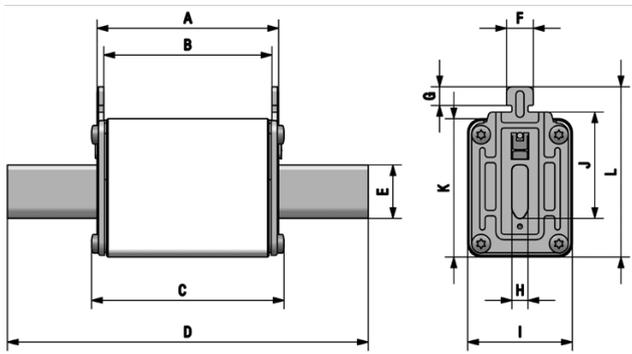


gS
NH 800V
fuse links

RATED VOLTAGE	RATED CURRENT	BREAKING CAPACITY
800V AC	25A...100A	120kA



DIMENSIONS

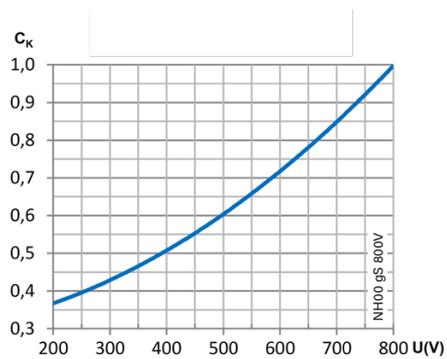


A	B	C	D	E	F	G	H	I	J	K	L
49	44	52	78,5	15	10	9,5	6	29	35	47	59

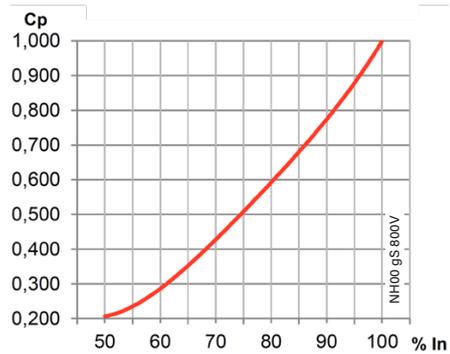
POWER DISSIPATION

I_n	I_t^2 PREARcing	OPERATING I_t^2 @800V	POWER LOSS $0.8 \cdot I_n$	POWER LOSS I_n
(A)	(A ² S)	(A ² S)	(W)	(W)
25	60	300	2,4	4,1
32	150	800	2,6	4,6
40	200	1300	3,3	5,6
50	500	2500	3,7	6,1
63	900	5000	4,2	6,8
80	1800	9800	4,8	8,3
100	3100	16200	6,8	10,9

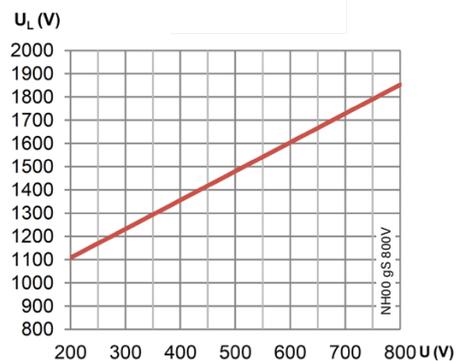
I^2t CORRECTION FACTOR (K)



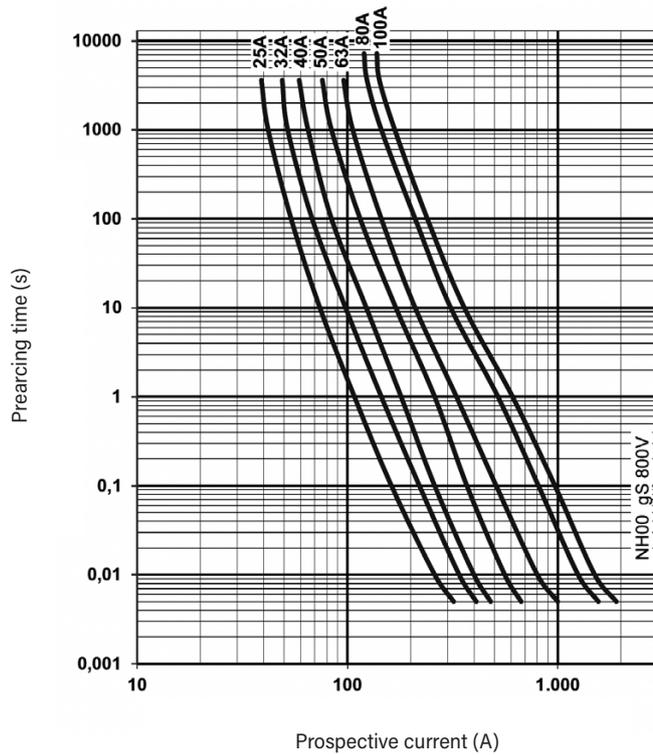
CORRECTION FACTOR FOR POWER LOSS (Cp)



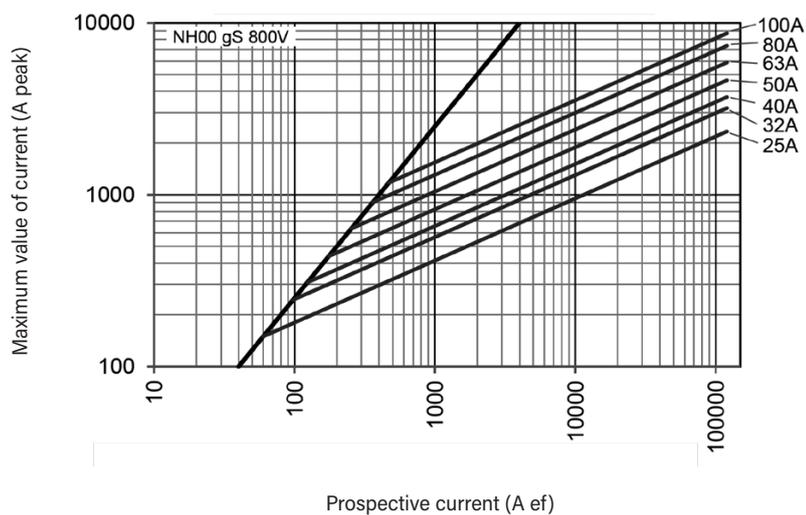
PEAK ARC VOLTAGE (U_L)



t-I CHARACTERISTICS



CUT-OFF CHARACTERISTICS



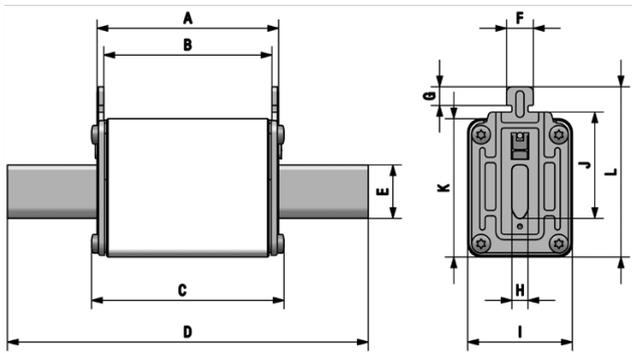


gS
NH 800V
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RATED VOLTAGE	RATED CURRENT	BREAKING CAPACITY
800V AC	100A...200A	120kA



DIMENSIONS

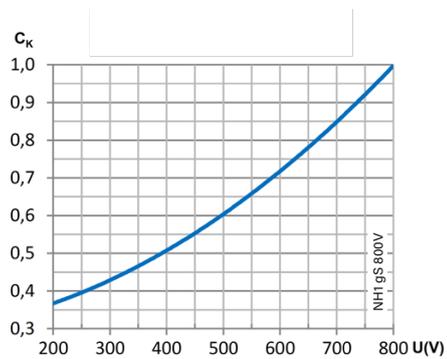


A	B	C	D	E	F	G	H	I	J	K	L
68	62	71,5	135	20	10	9,5	6	39	40	52	64

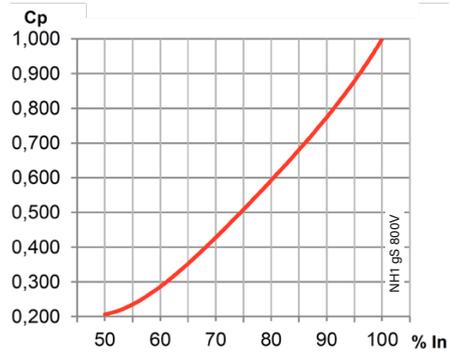
POWER DISSIPATION

I_n	I_t^2 PREARcing	OPERATING I_t^2 @800V	POWER LOSS $0.8 \cdot I_n$	POWER LOSS I_n
(A)	(A ² S)	(A ² S)	(W)	(W)
100	2300	7900	8,5	14,5
125	4600	15400	9,4	16
160	9400	31500	10,8	18,5
200	18400	61800	12	20,5

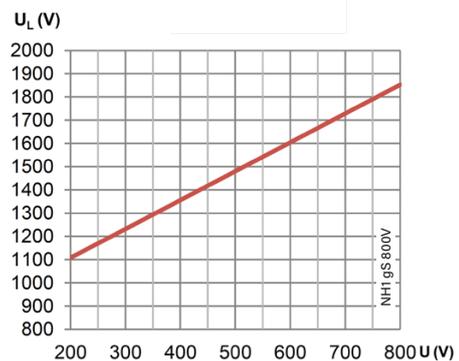
I^2t CORRECTION FACTOR (C_K)



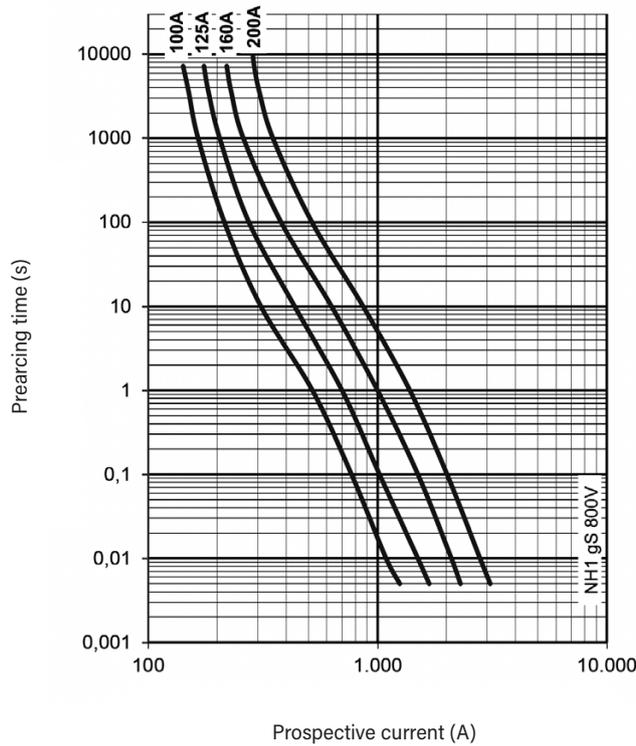
CORRECTION FACTOR FOR POWER LOSS (C_p)



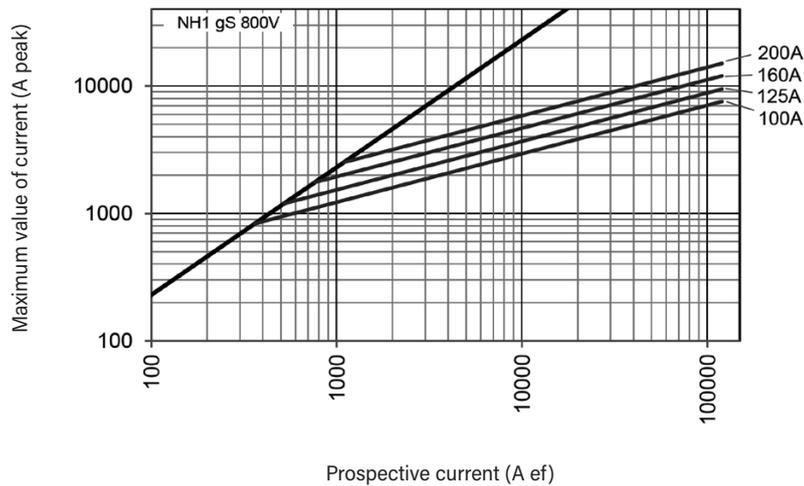
PEAK ARC VOLTAGE (U_L)



t-I CHARACTERISTICS



CUT-OFF CHARACTERISTICS



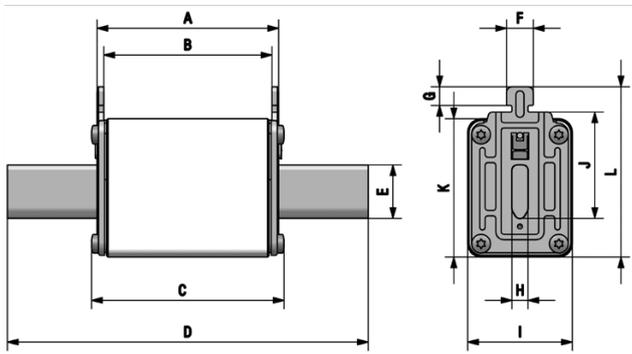


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NH 800V
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RATED VOLTAGE	RATED CURRENT	BREAKING CAPACITY
800V AC	250A...400A	120kA



DIMENSIONS

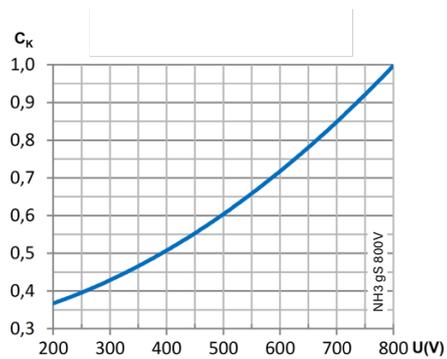


A	B	C	D	E	F	G	H	I	J	K	L
68	62	73	150	32	10	9,5	6	70	60	75	87

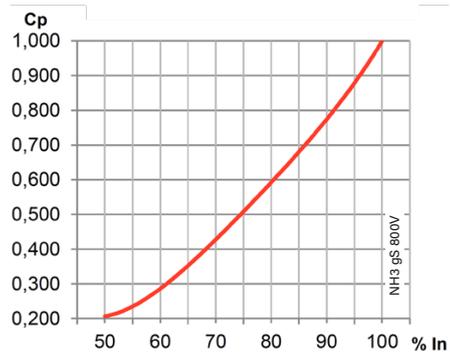
POWER DISSIPATION

I_n	I_t^2 PREARcing	OPERATING I_t^2 @800V	POWER LOSS $0.8 \cdot I_n$	POWER LOSS I_n
(A)	(A ² S)	(A ² S)	(W)	(W)
250	30300	98000	16,2	27,5
315	58200	187000	19,5	33
355	86900	279000	19,9	33,7
400	121300	390000	22,1	37,5

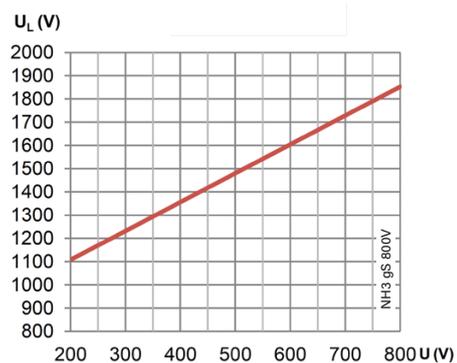
I^2t CORRECTION FACTOR (C_K)



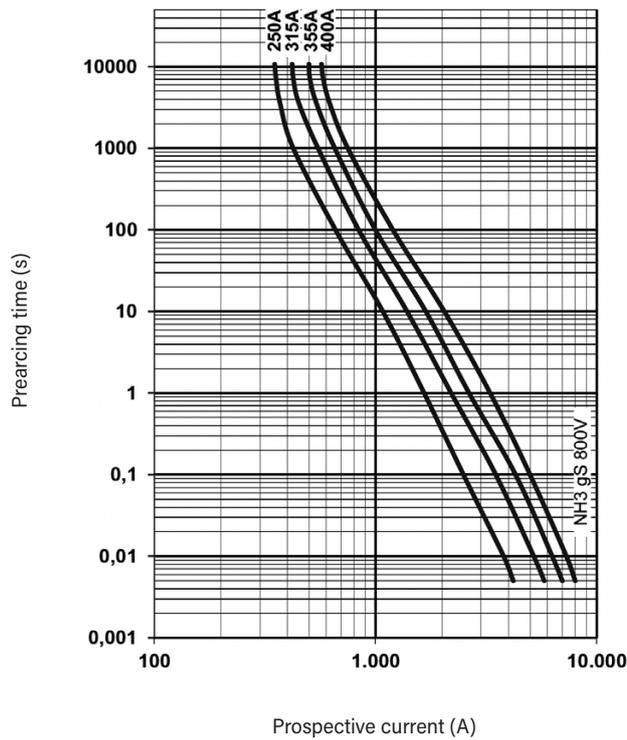
CORRECTION FACTOR FOR POWER LOSS (C_p)



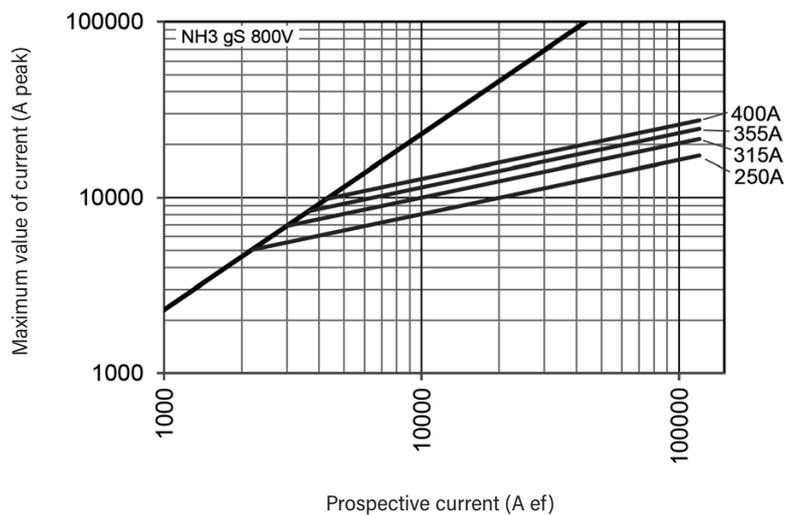
PEAK ARC VOLTAGE (U_L)



t-I CHARACTERISTICS



CUT-OFF CHARACTERISTICS





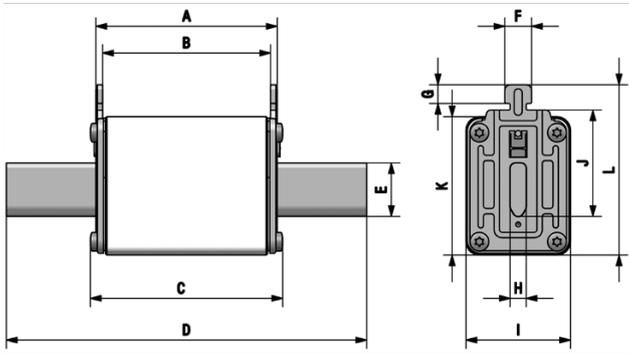
RATED VOLTAGE
690V AC

RATED CURRENT
16A...250A

BREAKING CAPACITY
120kA (690V AC)
30kA (440V DC)

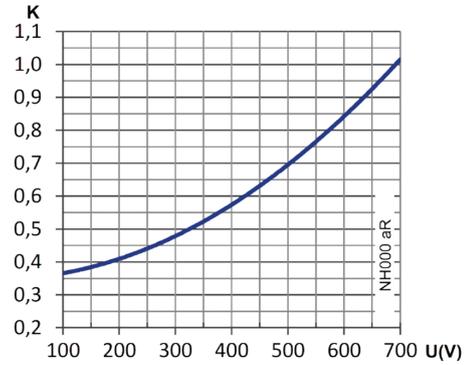


DIMENSIONS

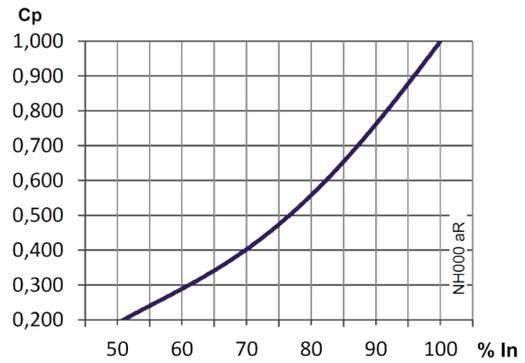


A B C D E F G H I J K L
49 45 52 78,5 15 10 9,5 6 21 35 40 53

I²t CORRECTION FACTOR (K)



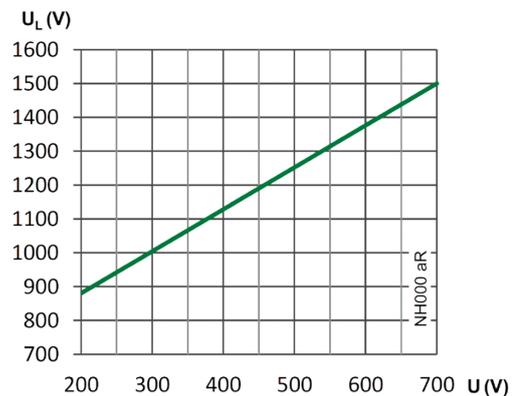
CORRECTION FACTOR FOR POWER LOSS (Cp)



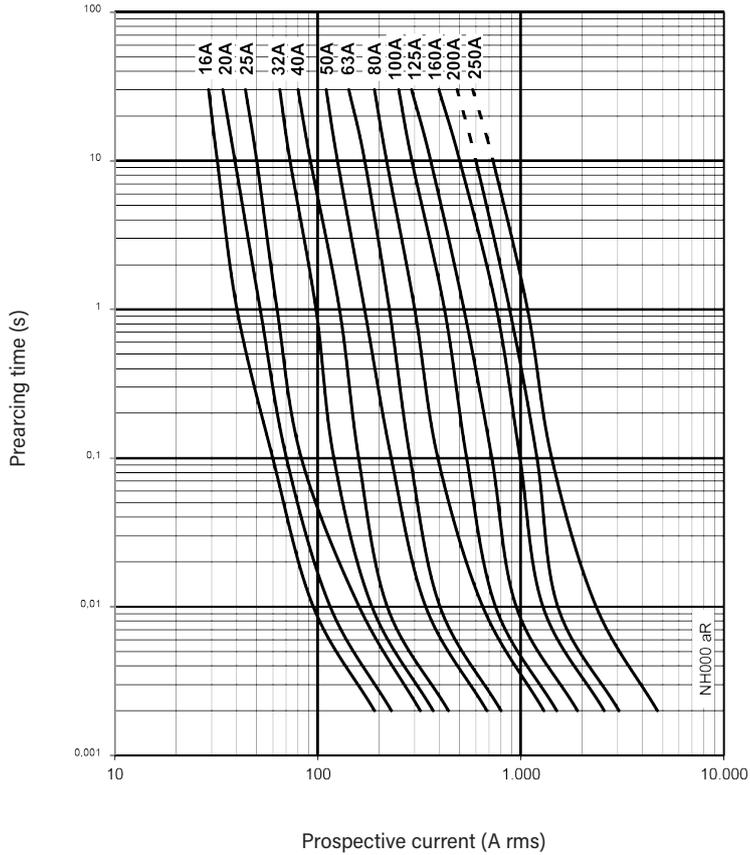
POWER DISSIPATION

I _n (A)	I ² _t PREARcing (A ² S)	OPERATING I ² _t @690V (A ² S)	POWER LOSS 0.8 · I _n (W)	POWER LOSS I _n (W)
16	7	62	2,5	4,5
20	15	121	2,9	5,2
25	24	200	3,8	6,8
32	33	213	4,5	8,0
40	59	379	5,1	9,1
50	157	1.000	5,3	9,5
63	290	2.270	6,9	12
80	550	4.300	8,4	15
100	720	5.880	9,5	17
125	1.410	11.540	11	20
160	2.340	19.080	15	26
200	3.490	28.500	20	36
250	6.500	53.000	26	46

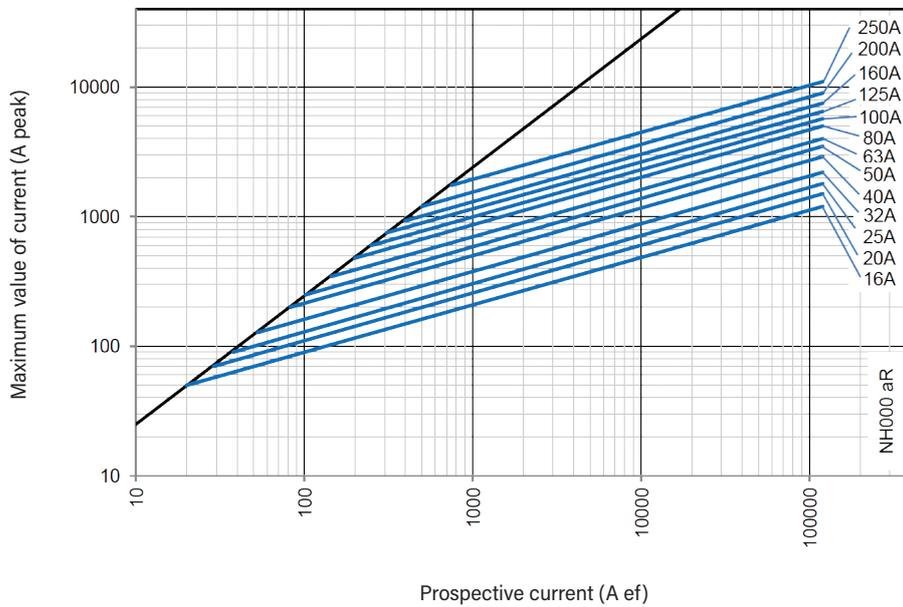
PEAK ARC VOLTAGE (U_L)



t-I CHARACTERISTICS



CUT-OFF CHARACTERISTICS



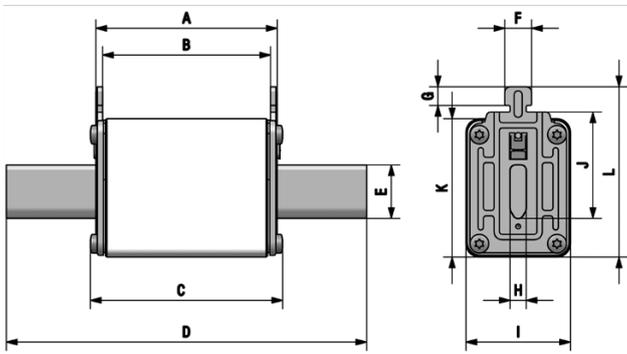


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RATED VOLTAGE	RATED CURRENT	BREAKING CAPACITY
690V AC	40A...400A	120kA (690V AC)
		30kA (550V DC)



DIMENSIONS

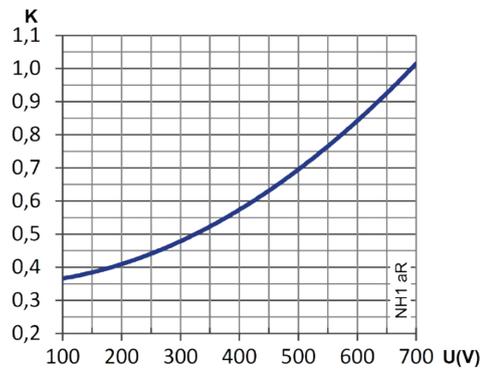


A	B	C	D	E	F	G	H	I	J	K	L
68	62	71,5	135	20	10	9,5	6	39	40	52	64

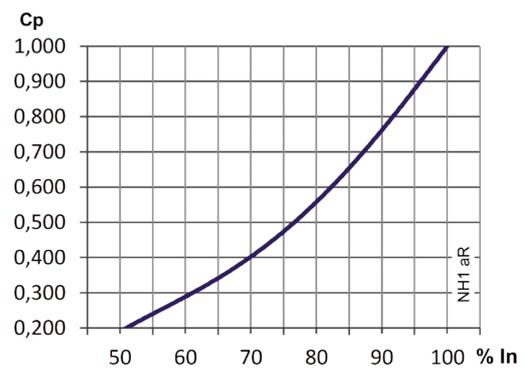
POWER DISSIPATION

I_n (A)	I_t^2 PREARcing (A ² S)	OPERATING I_t^2 @690V (A ² S)	POWER LOSS $0.8 \cdot I_n$ (W)	POWER LOSS I_n (W)
40	55	320	8,1	14
50	97	570	9,6	17
63	220	1.300	11	19
80	370	2.300	13	23
100	570	3.590	18	32
125	980	6.080	24	44
160	1.710	10.560	25	45
200	3.040	18.770	33	59
250	5.400	33.380	41	73
315	10.220	63.110	43	77
350	12.160	75.100	45	80
400	23.000	142.000	52	93

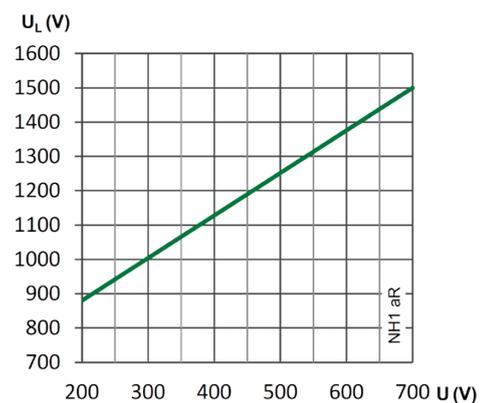
I_t^2 CORRECTION FACTOR (K)



CORRECTION FACTOR FOR POWER LOSS (Cp)

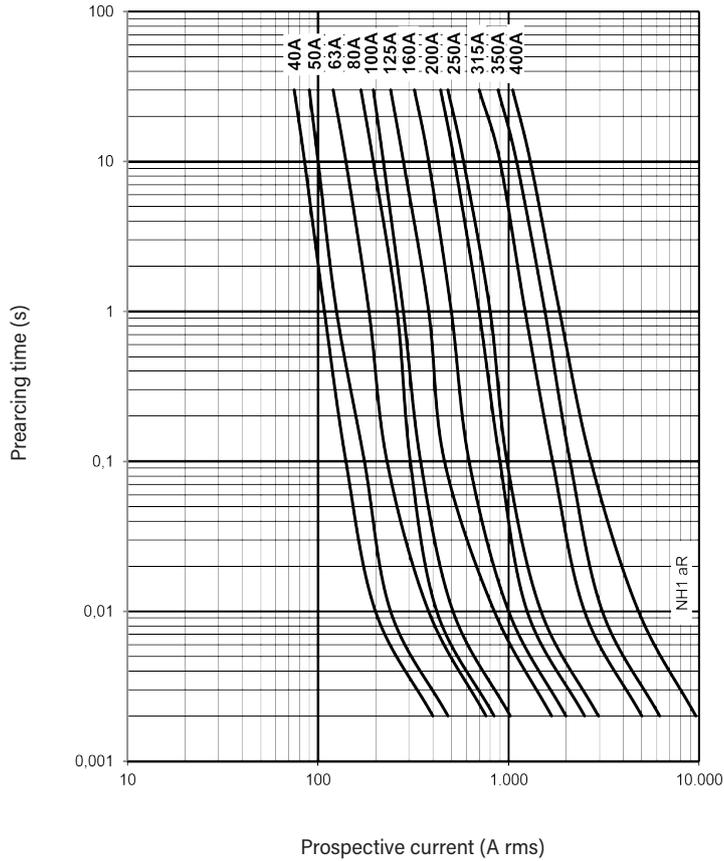


PEAK ARC VOLTAGE (U_L)

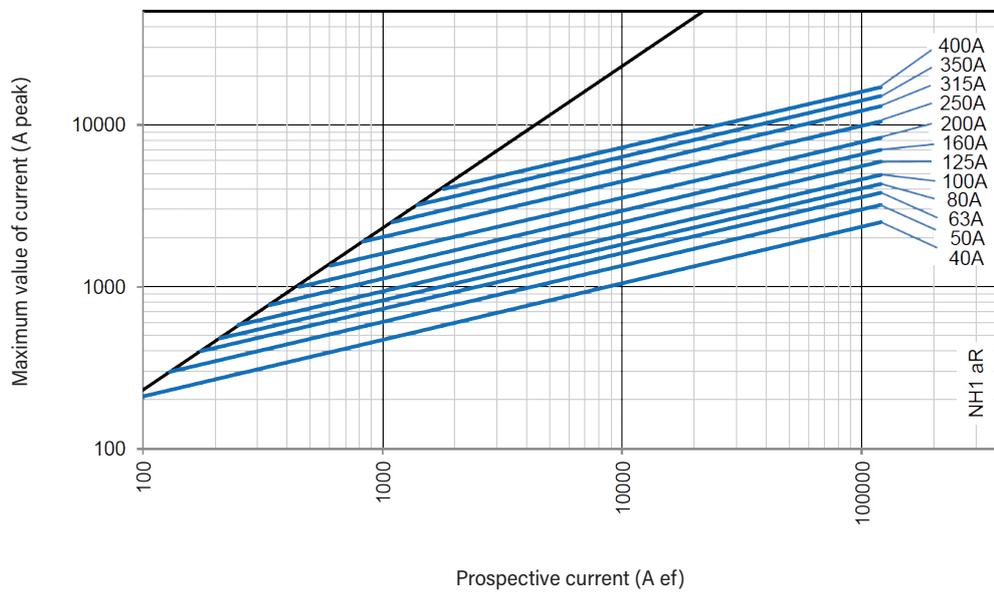




t-I CHARACTERISTICS



CUT-OFF CHARACTERISTICS



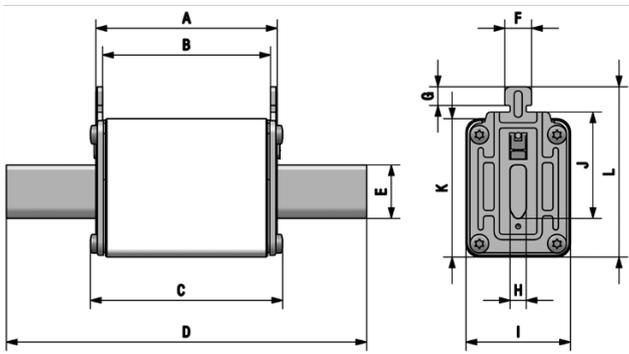


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RATED VOLTAGE	RATED CURRENT	BREAKING CAPACITY
690V AC	200A...700A	120kA (690V AC)
		30kA (550V DC)



DIMENSIONS

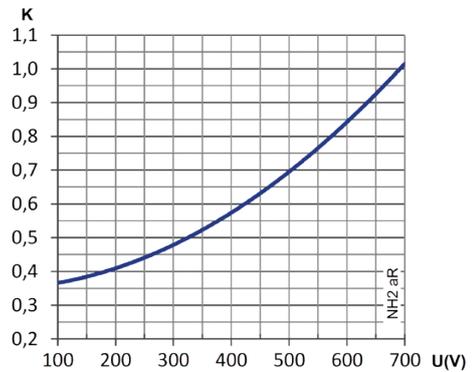


A	B	C	D	E	F	G	H	I	J	K	L
68	62	71,5	150	25	10	9,5	6	53	48	60	72

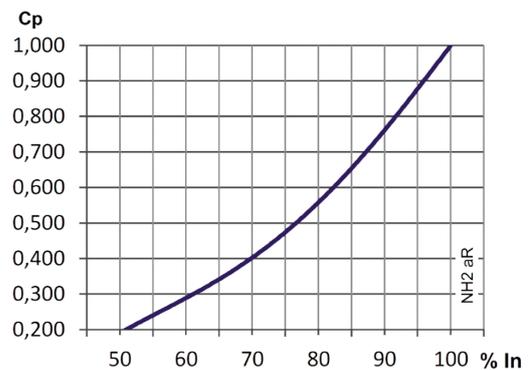
POWER DISSIPATION

I_n (A)	I_t^2 PREARcing (A ² S)	OPERATING I_t^2 @690V (A ² S)	POWER LOSS $0.8 \cdot I_n$ (W)	POWER LOSS I_n (W)
200	1.550	9.430	53	95
250	3.250	19.670	56	100
315	6.230	37.720	57	102
350	9.300	56.340	58	104
400	13.000	78.700	72	129
450	17.000	102.000	77	137
500	24.500	147.000	83	148
550	36.000	216.000	85	152
630	47.220	283.330	95	170
700	68.000	408.000	99	178

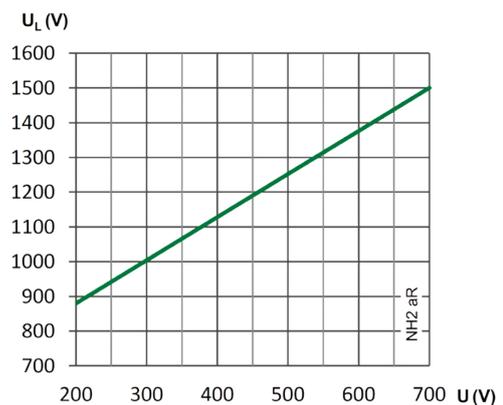
I_t^2 CORRECTION FACTOR (K)



CORRECTION FACTOR FOR POWER LOSS (Cp)

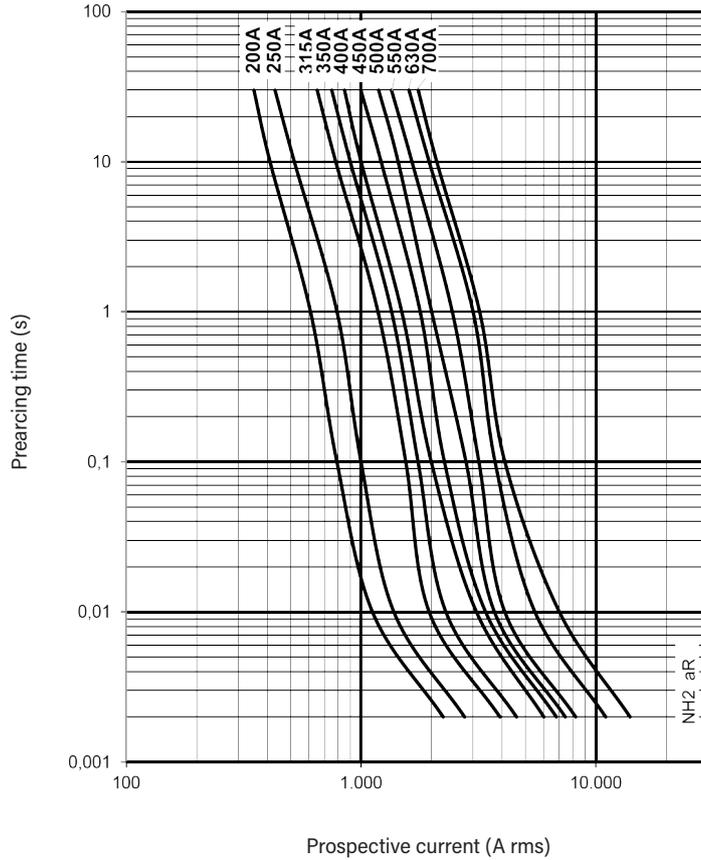


PEAK ARC VOLTAGE (U_L)

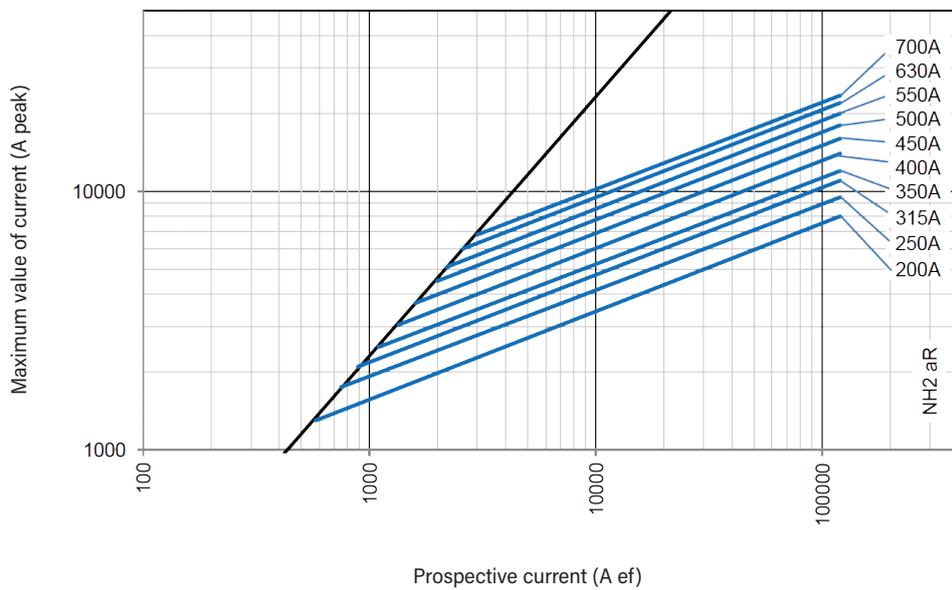




t-I CHARACTERISTICS



CUT-OFF CHARACTERISTICS



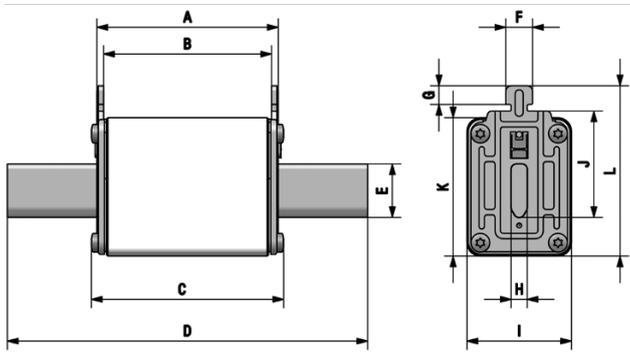


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RATED VOLTAGE	RATED CURRENT	BREAKING CAPACITY
690V AC	500A...1000A	120kA (690V AC)
		30kA (550V DC)



DIMENSIONS

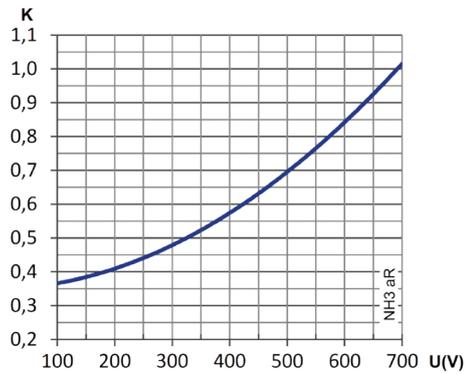


A	B	C	D	E	F	G	H	I	J	K	L
68	62	73	150	32	10	9,5	6	70	60	75	87

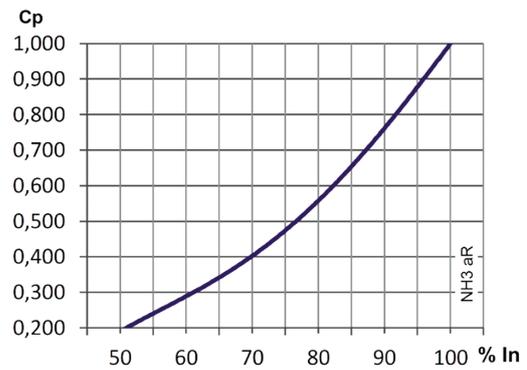
POWER DISSIPATION

I_n	I_t^2 PREARcing	OPERATING I_t^2 @690V	POWER LOSS $0.8 \cdot I_n$	POWER LOSS I_n
(A)	(A ² S)	(A ² S)	(W)	(W)
500	22.160	109.000	76	136
550	32.100	158.060	81	145
630	45.500	220.000	89	159
700	65.520	322.200	103	184
800	97.870	481.310	107	191
900	126.380	621.520	121	216
1000	182.000	895.000	150	268

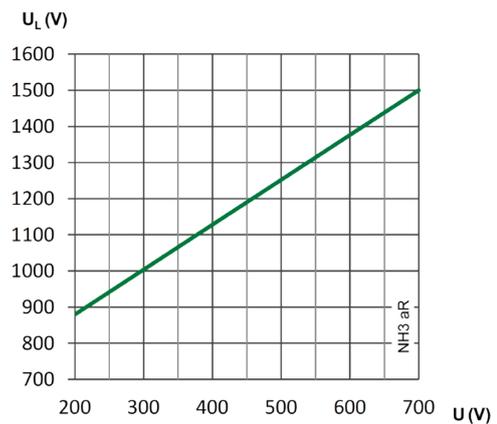
I_t^2 CORRECTION FACTOR (K)



CORRECTION FACTOR FOR POWER LOSS (Cp)

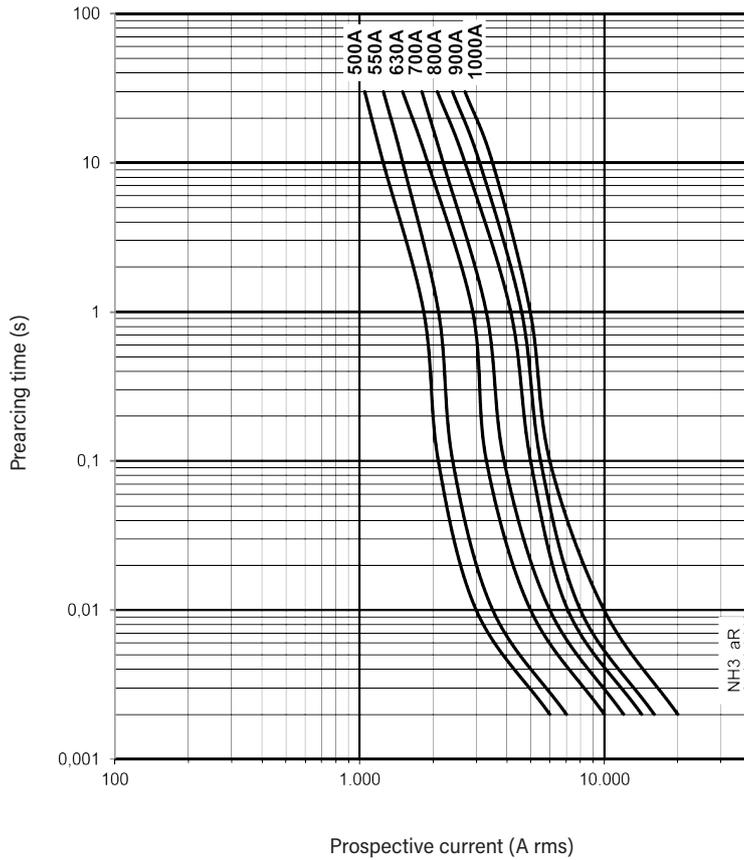


PEAK ARC VOLTAGE (U_L)

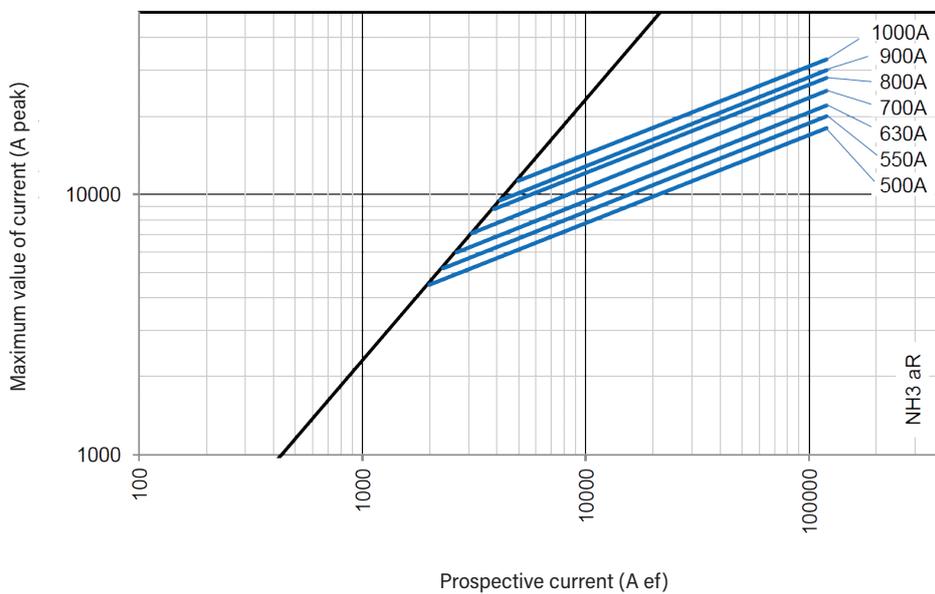




t-I CHARACTERISTICS



CUT-OFF CHARACTERISTICS



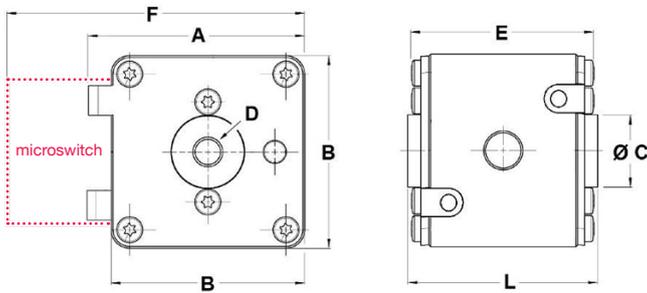


SQB square body fuse links

RATED VOLTAGE 690V AC
RATED CURRENT 80A...800A
BREAKING CAPACITY 120kA

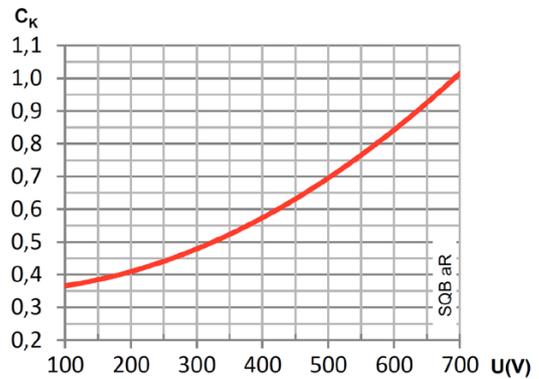


DIMENSIONS

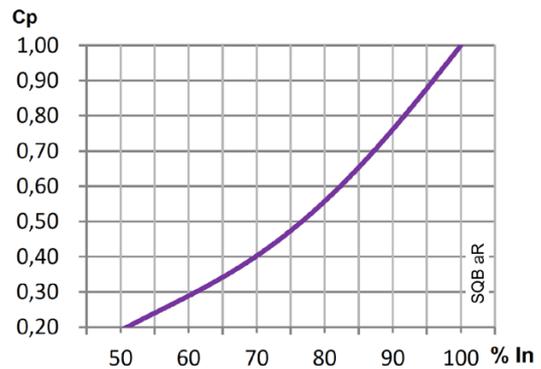


A	B	C	D	E	F	L
			THREAD	DEPTH		
58	52	19,6	M8	9	49	87 51

I²t CORRECTION FACTOR (K)



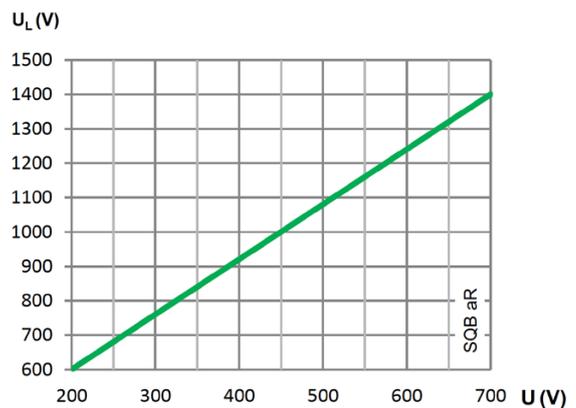
CORRECTION FACTOR FOR POWER LOSS (Cp)



POWER DISSIPATION

I _n	POWER LOSS I _n	PREARcing I _t	OPERATING I _t @690V
(A)	(W)	(A²S)	(A²S)
80	15	350	2570
100	20	550	4000
125	30	795	5750
160	33	1400	10250
200	39	2675	19450
250	43	4700	31000
315	51	8350	55200
350	54	12000	79500
400	56	18800	124000
450	60	25600	169200
500	65	28200	209000
550	71	35700	264900
630	76	53400	395800
700	81	76900	570000
800	90	98500	812000

PEAK ARC VOLTAGE (U_L)



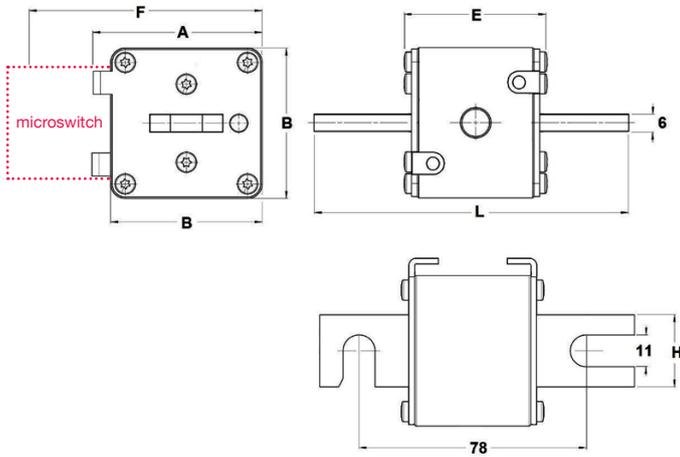


SQB square body fuse links

RATED VOLTAGE 690V AC
RATED CURRENT 80A...800A
BREAKING CAPACITY 120kA



DIMENSIONS

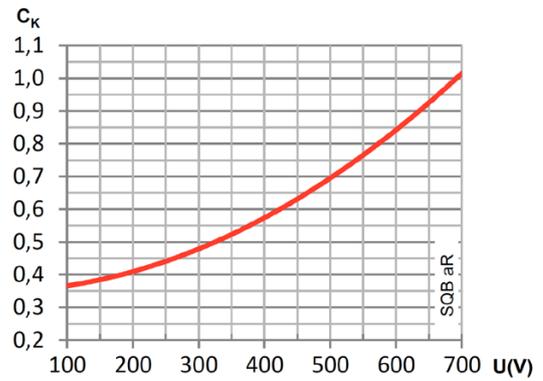


A	B	E	F	H	L
58	52	49	87	25	108

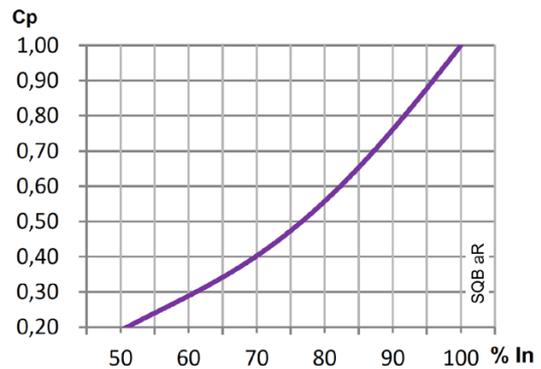
POWER DISSIPATION

I_n	POWER LOSS I_n	PREARcing I_t^2	OPERATING I_t^2
(A)	(W)	(A ² S)	(A ² S)
80	15	350	2570
100	20	550	4000
125	30	795	5750
160	33	1400	10250
200	39	2675	19450
250	43	4700	31000
315	51	8350	55200
350	54	12000	79500
400	56	18800	124000
450	60	25600	169200
500	65	28200	209000
550	71	35700	264900
630	76	53400	395800
700	81	76900	570000
800	90	98500	812000

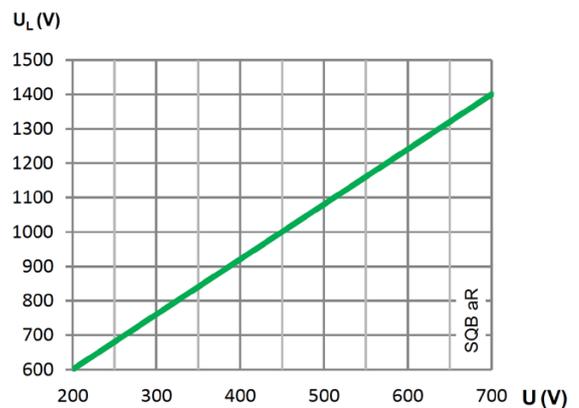
I^2t CORRECTION FACTOR (K)



CORRECTION FACTOR FOR POWER LOSS (C_p)



PEAK ARC VOLTAGE (U_L)



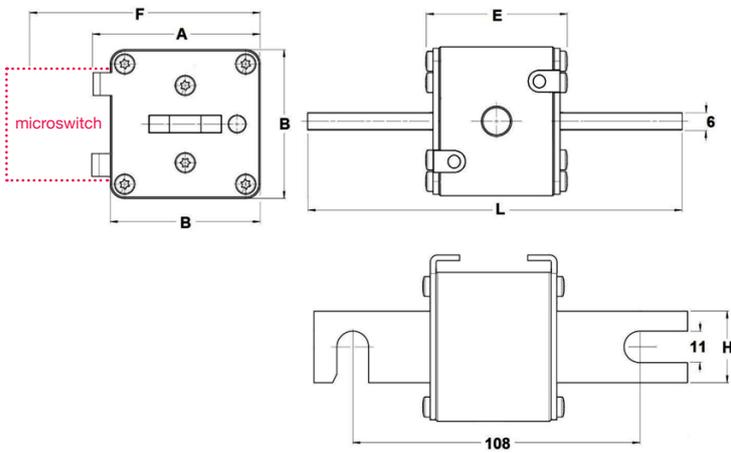


SQB square body fuse links

RATED VOLTAGE 690V AC
RATED CURRENT 80A...800A
BREAKING CAPACITY 120kA



DIMENSIONS

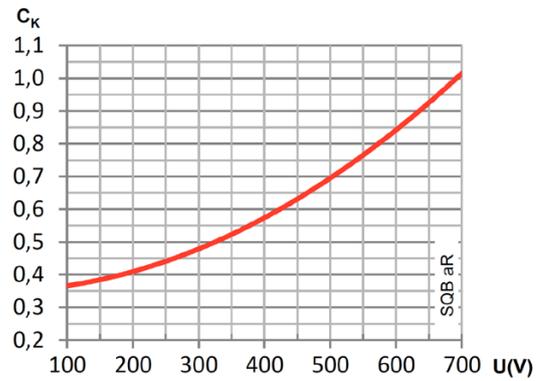


A	B	E	F	H	L
58	52	49	87	25	138

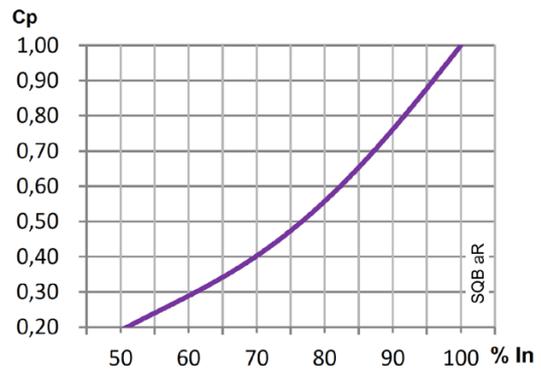
POWER DISSIPATION

I_n	POWER LOSS I_n	PREARcing I_t^2	OPERATING I_t^2 @690V
(A)	(W)	(A ² S)	(A ² S)
80	15	350	2570
100	20	550	4000
125	30	795	5750
160	33	1400	10250
200	39	2675	19450
250	43	4700	31000
315	51	8350	55200
350	54	12000	79500
400	56	18800	124000
450	60	25600	169200
500	65	28200	209000
550	71	35700	264900
630	76	53400	395800
700	81	76900	570000
800	90	98500	812000

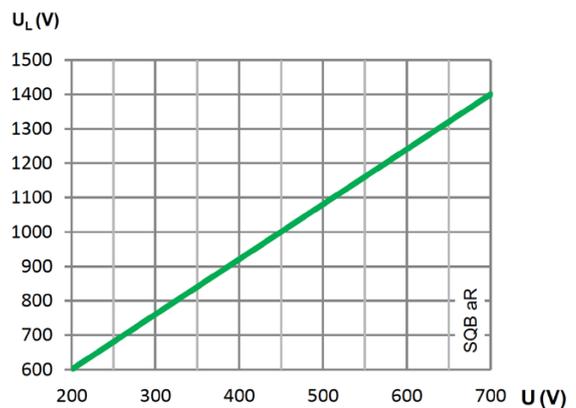
I_t^2 CORRECTION FACTOR (K)



CORRECTION FACTOR FOR POWER LOSS (Cp)

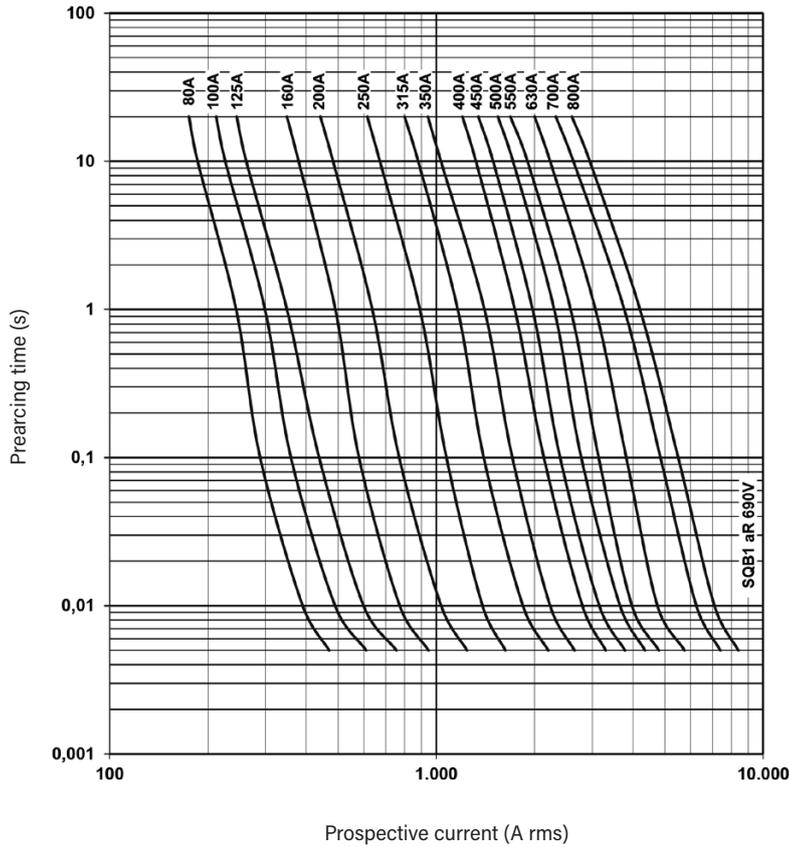


PEAK ARC VOLTAGE (U_L)

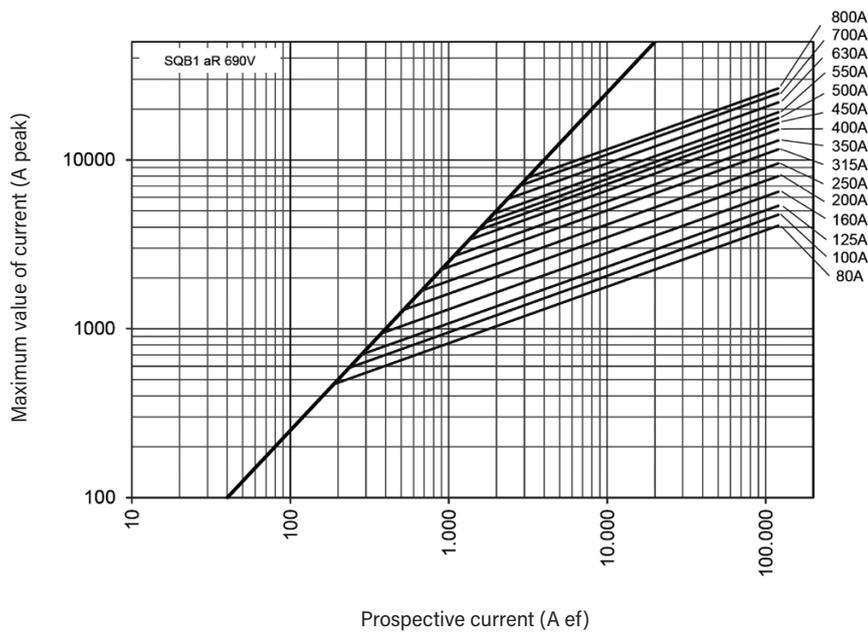




t-I CHARACTERISTICS



CUT-OFF CHARACTERISTICS



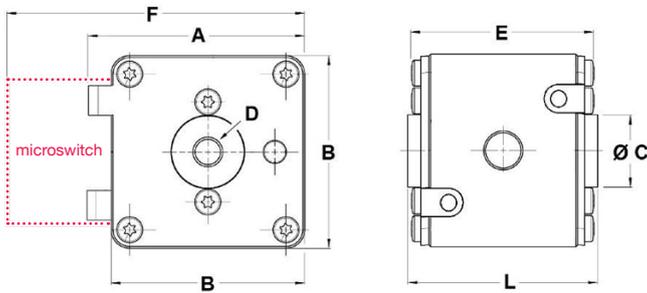


SQB square body fuse links

RATED VOLTAGE 690V AC
RATED CURRENT 400A...1000A
BREAKING CAPACITY 120kA

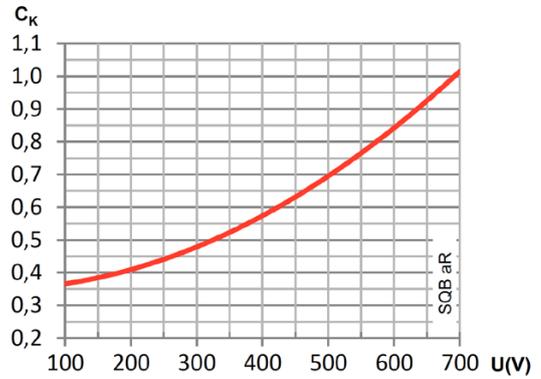


DIMENSIONS

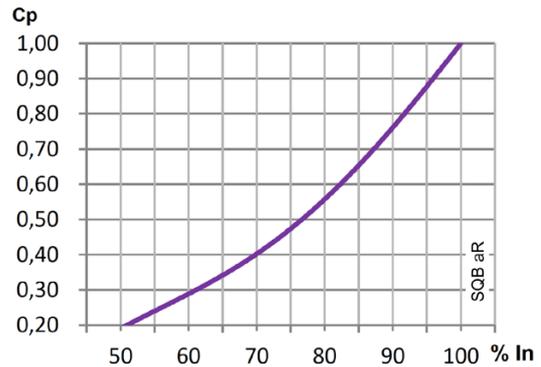


A	B	C	D	E	F	L
66	60	24,5	M10 THREAD	10 DEPTH	49	95

I²t CORRECTION FACTOR (K)



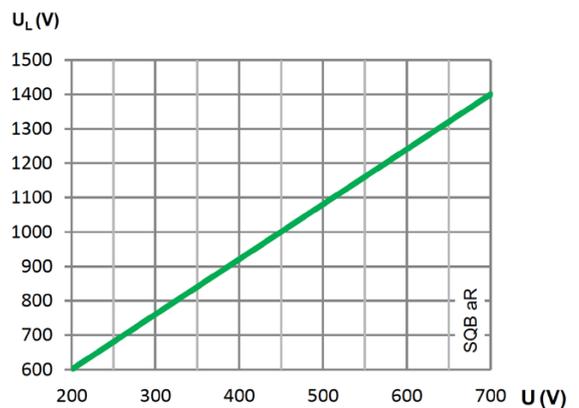
CORRECTION FACTOR FOR POWER LOSS (Cp)



POWER DISSIPATION

I _n	POWER LOSS I _n	PREARcing I _t	OPERATING I _t @690V
(A)	(W)	(A²S)	(A²S)
400	73	10500	79250
450	77	15200	114100
500	78	20400	153100
550	82	28740	215700
630	89	41390	310600
700	91	61380	464100
800	94	93130	699000
900	98	136250	1027000
1000	110	186250	1390000

PEAK ARC VOLTAGE (U_L)



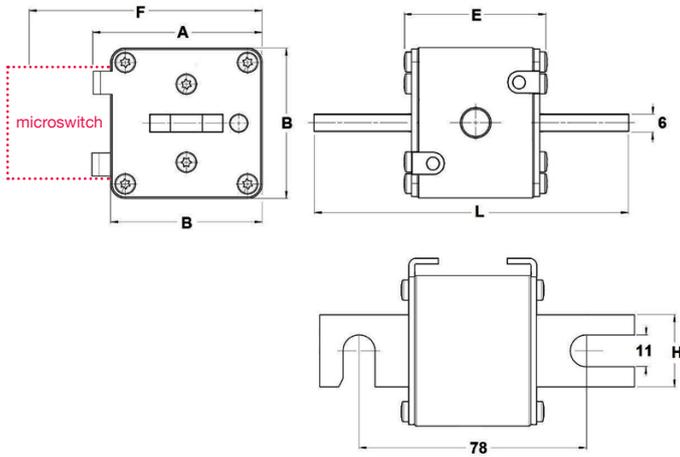


SQB square body fuse links

RATED VOLTAGE 690V AC
RATED CURRENT 400A...1000A
BREAKING CAPACITY 120kA



DIMENSIONS

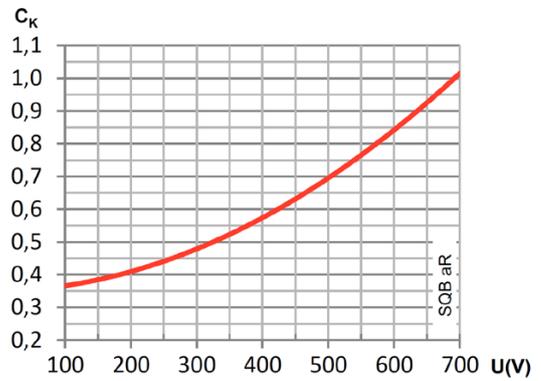


A	B	E	F	H	L
66	60	49	95	25	108,5

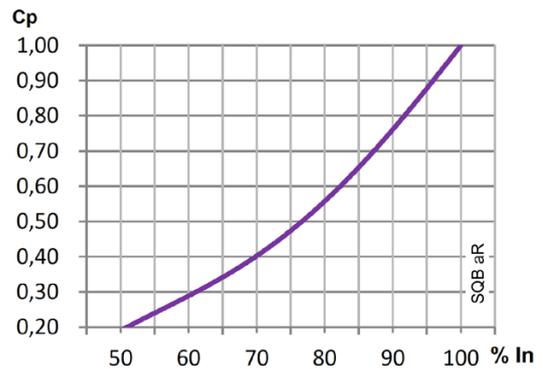
POWER DISSIPATION

I_n	POWER LOSS I_n	PREARcing I_t^2	OPERATING I_t^2
(A)	(W)	(A ² S)	(A ² S)
400	77	10500	79250
450	79	15200	114100
500	80	20400	153100
550	86	28740	215700
630	95	41390	610600
700	97	61380	464100
800	102	93130	699000
900	107	136250	1027000
1000	120	186250	1390000

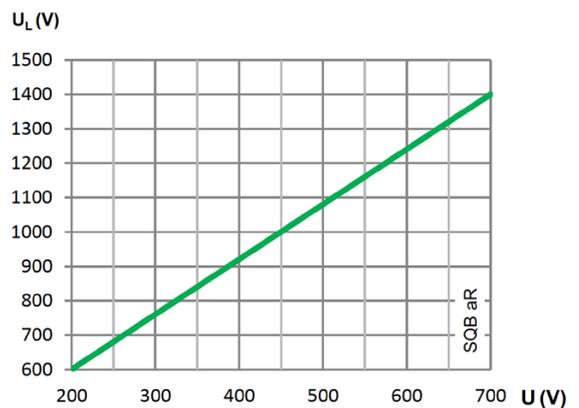
I^2t CORRECTION FACTOR (C_K)



CORRECTION FACTOR FOR POWER LOSS (C_p)



PEAK ARC VOLTAGE (U_L)



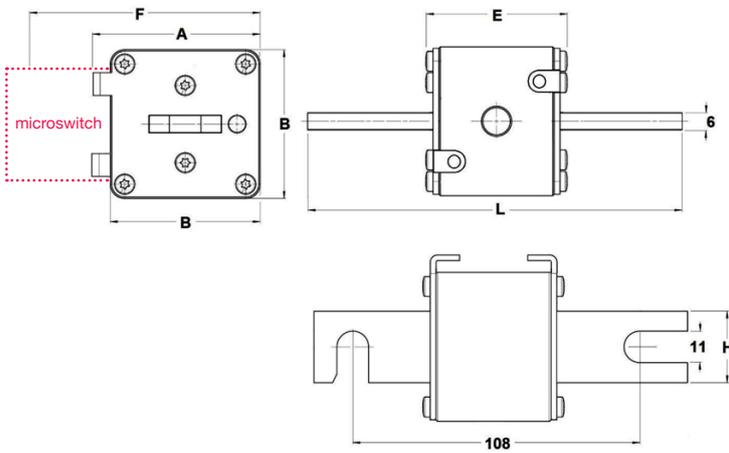


SQB square body fuse links

RATED VOLTAGE 690V AC
RATED CURRENT 400A...1000A
BREAKING CAPACITY 120kA



DIMENSIONS

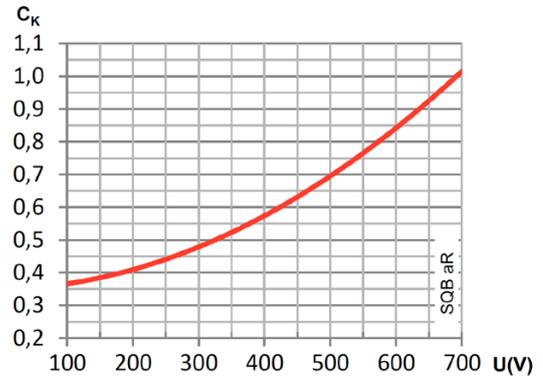


A	B	E	F	H	L
66	60	49	95	25	138,5

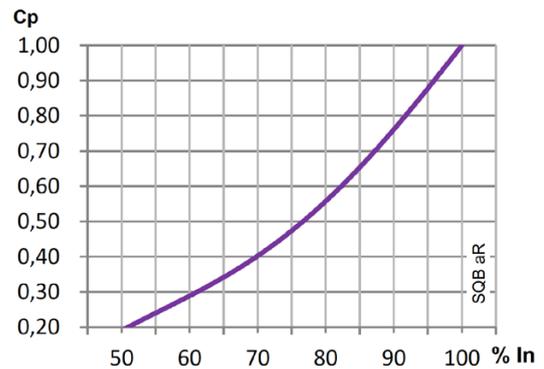
POWER DISSIPATION

I_n	POWER LOSS I_n	PREARcing I_t^2	OPERATING I_t^2 @690V
(A)	(W)	(A ² S)	(A ² S)
400	77	10500	79250
450	79	15200	114100
500	80	20400	153100
550	86	28740	215700
630	95	41390	610600
700	97	61380	464100
800	102	93130	699000
900	107	136250	1027000
1000	120	186250	1390000

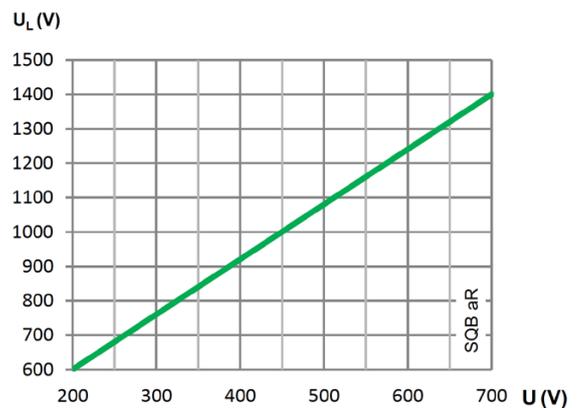
I^2t CORRECTION FACTOR (C_K)



CORRECTION FACTOR FOR POWER LOSS (C_p)

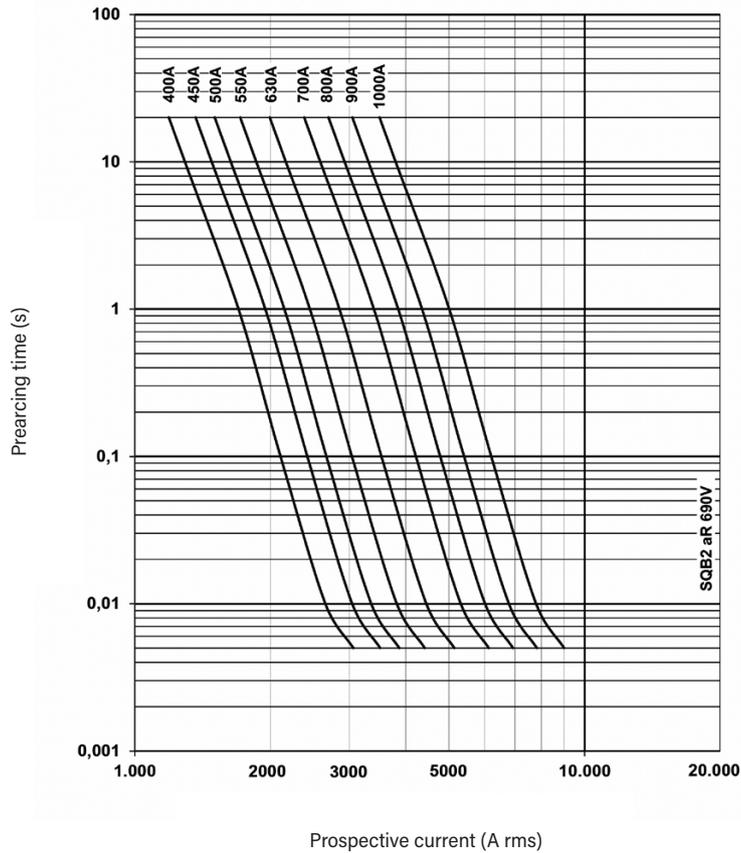


PEAK ARC VOLTAGE (U_L)

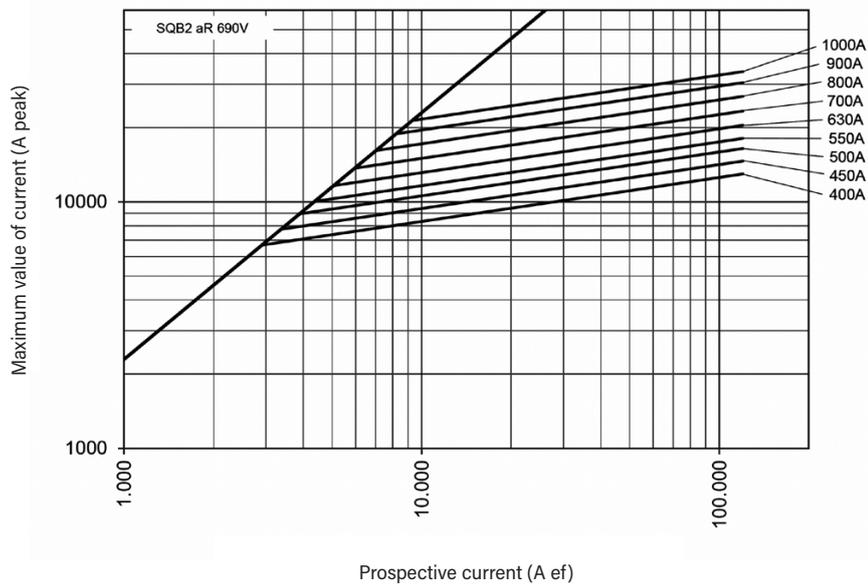




t-I CHARACTERISTICS



CUT-OFF CHARACTERISTICS



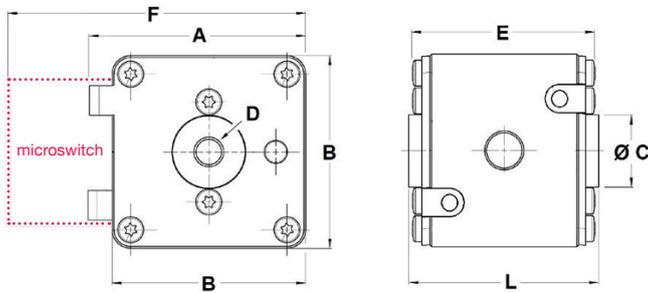


SQB square body fuse links

RATED VOLTAGE 690V AC
RATED CURRENT 500A...1400A
BREAKING CAPACITY 120kA

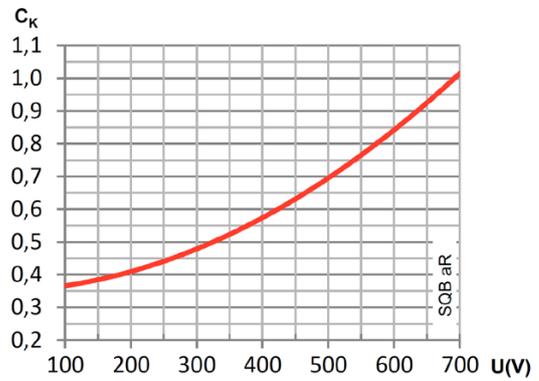


DIMENSIONS

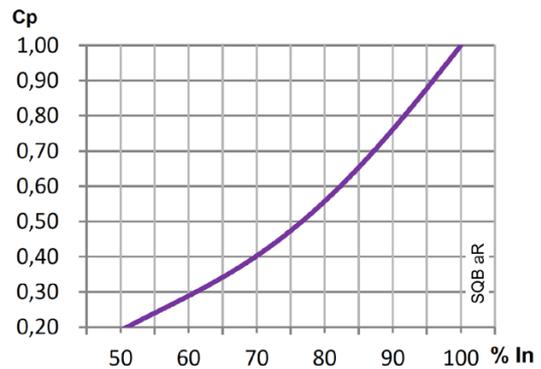


A	B	C	D	E	F	L
81	73,5	29,5	M12	12	50,5	109
			THREAD	DEPTH		

I²t CORRECTION FACTOR (K)



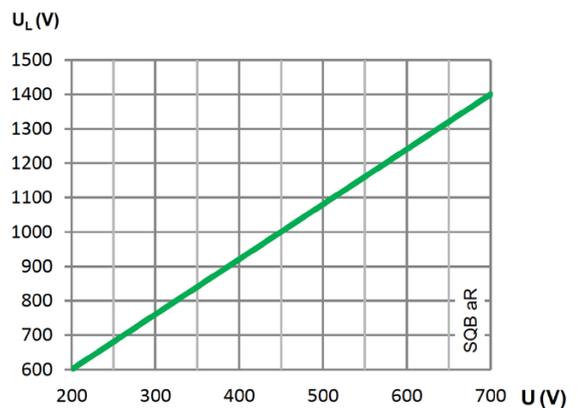
CORRECTION FACTOR FOR POWER LOSS (Cp)



POWER DISSIPATION

I _n	POWER LOSS I _n	PREARcing I _t	OPERATING I _t @690V
(A)	(W)	(A ² S)	(A ² S)
500	84	18700	137000
550	85	24900	182900
630	98	36500	269000
700	100	51500	379000
800	104	82500	600000
900	111	108000	790000
1000	117	153500	1125000
1100	125	196000	1400000
1250	133	282000	2050000
1400	146	383000	2800000

PEAK ARC VOLTAGE (U_L)



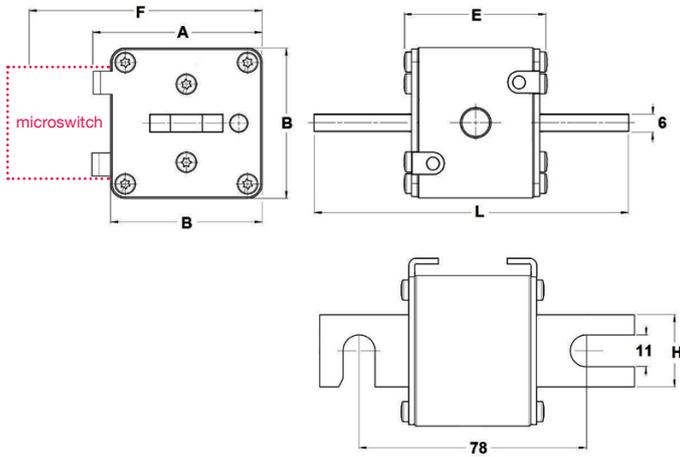


SQB square body fuse links

RATED VOLTAGE 690V AC
RATED CURRENT 500A...1400A
BREAKING CAPACITY 120kA



DIMENSIONS

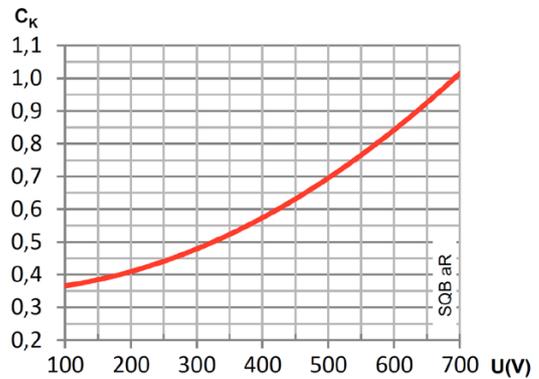


A	B	E	F	H	L
81	73,5	50,5	109	30	108,5

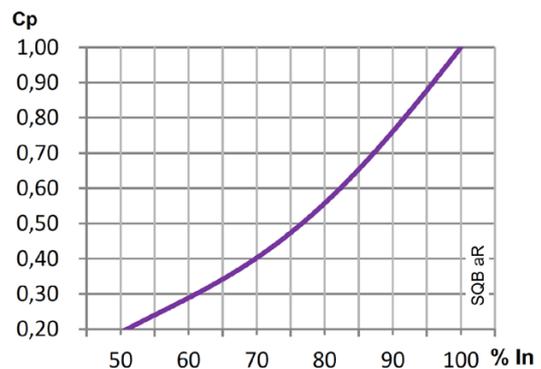
POWER DISSIPATION

I_n	POWER LOSS I_n	PREARcing I_t^2	OPERATING I_t^2
(A)	(W)	(A ² S)	(A ² S)
500	90	18700	137000
550	93	24900	182900
630	103	36500	269000
700	108	51500	379000
800	115	82500	600000
900	123	108000	790000
1000	129	153500	1125000
1100	142	196000	1400000
1250	155	282000	2050000
1400	177	383000	2800000

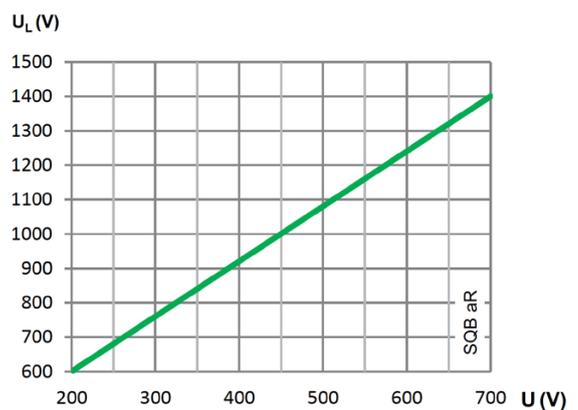
I^2t CORRECTION FACTOR (K)



CORRECTION FACTOR FOR POWER LOSS (Cp)



PEAK ARC VOLTAGE (U_L)



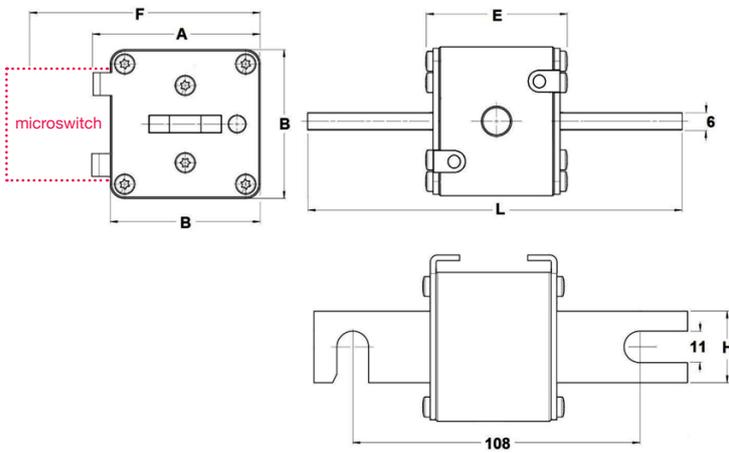


SQB square body fuse links

RATED VOLTAGE 690V AC
RATED CURRENT 500A...1400A
BREAKING CAPACITY 120kA



DIMENSIONS

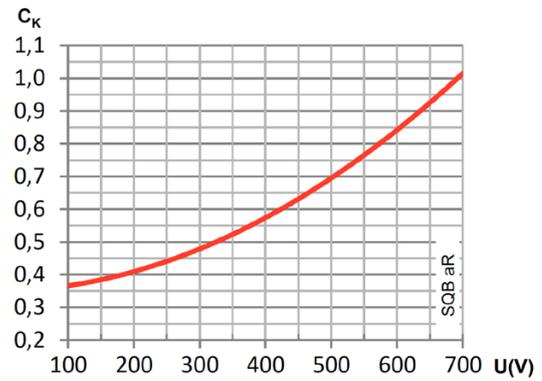


A	B	E	F	H	L
81	73,5	50,5	109	30	138,5

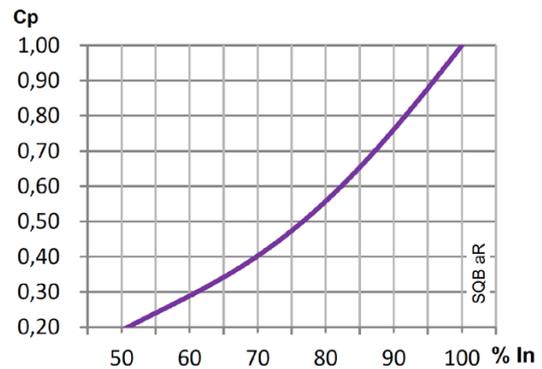
POWER DISSIPATION

I_n	POWER LOSS I_n	PREARcing I_t^2	OPERATING I_t^2 @690V
(A)	(W)	(A ² S)	(A ² S)
500	90	18700	137000
550	93	24900	182900
630	103	36500	269000
700	108	51500	379000
800	115	82500	600000
900	123	108000	790000
1000	129	153500	1125000
1100	142	196000	1400000
1250	155	282000	2050000
1400	177	383000	2800000

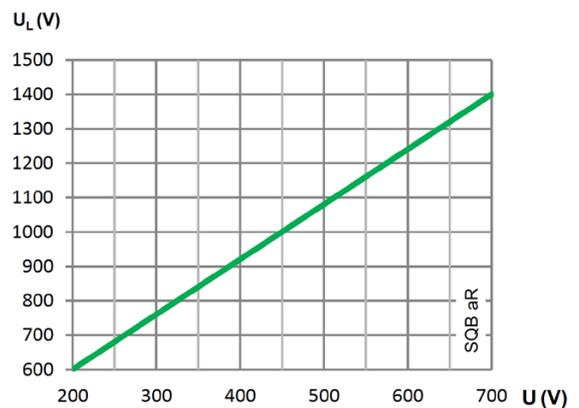
I^2t CORRECTION FACTOR (K)



CORRECTION FACTOR FOR POWER LOSS (Cp)

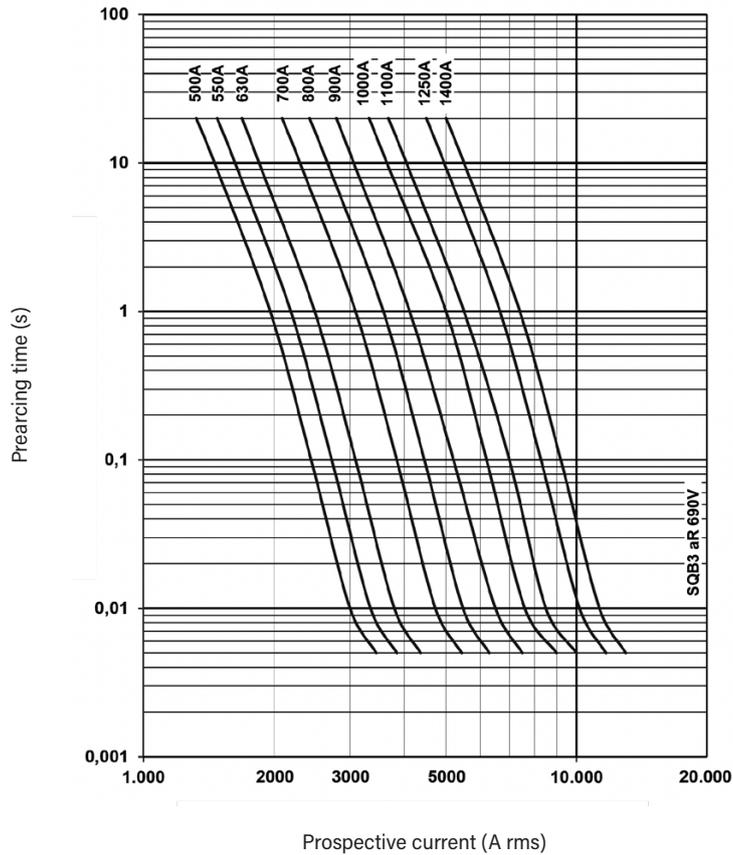


PEAK ARC VOLTAGE (UL)

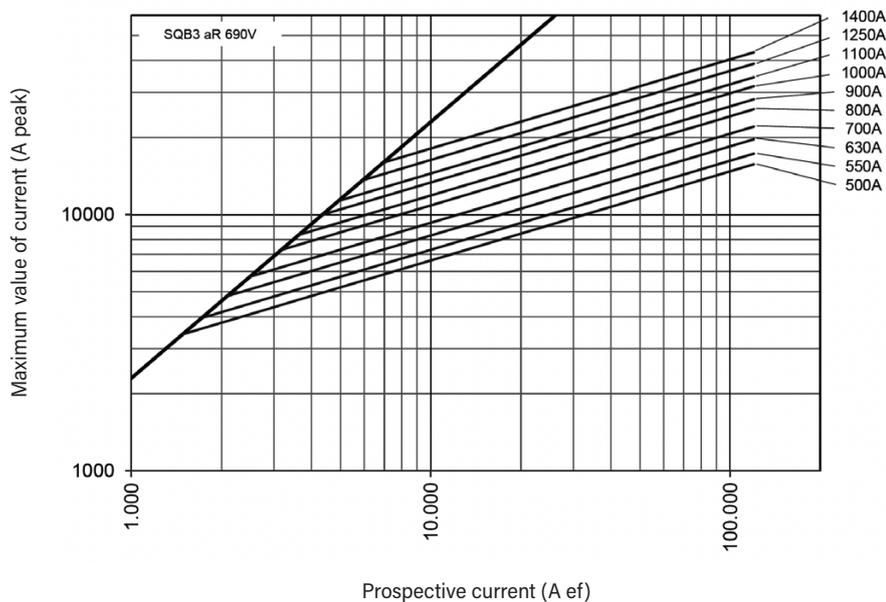




t-I CHARACTERISTICS



CUT-OFF CHARACTERISTICS



CYL | aR | gR
CYLINDRICAL
fuse links



USE OF SEMICONDUCTOR FUSE LINKS RAPIDPLUS® IN PMX MODULAR FUSE HOLDERS

The modular fuse holders for cylindrical fuses have a rated power acceptance according to the maximum power dissipations allowed for the general use fuse links (gG) and back up fuse links.

These maximum values allowed for the fuse links (gG/aM) are regulated by standards (IEC/EN60269-2). In the same way, this standards specify the minimum power acceptance for the fuse holders. This power acceptance is the power dissipated by the fuse links (converted in heat) that the fuse holder can accept with an acceptable increase of the temperature (values also regulated by standards).

The fuse links for protection of semiconductors RAPIDPLUS have a rated power dissipation (or power loss) higher than the gG or aM types, and for this reason there are some limitations for the application of these fuses in closed modular fuse holders.

It is necessary to check that the fuse links have a power diissipation not higher than the maximum value admissible of the fuse holder indicated by the manufacturer.

When it is no possible to use modular fuse holders the solution is the use of an open fuse base where the heat can be appropriately dissipated.

In the following table are indicated the maximum values of power acceptance for DF ELECTRIC fuse holders. These limits should never be exceeded:

PMX | PMX
CYLINDRICAL
fuse holders



RATED POWER ACCEPTANCE IEC/EN60269-2	3W	5W	9,5W
MAX. POWER ACCEPTANCE OF ELECTRIC FUSE HOLDERS	4W	6W	12W



NH | aR
NH
fuse links



FUSE LOAD CONSTANT C_L

Due to the high power dissipation of NH aR fuse-links, it is necessary to apply a derating factor that determines the maximum allowable continuous current when these fuses are installed in an NH base or in a fuse-switch-disconnector.

$$I_{MAX.} = I_N \times C_L$$

NH000

I_n	OPEN TYPE FUSE BASES	FUSE SWITCH DISCONNECTORS
(A)		
16	1	1
20	1	1
25	1	1
32	1	1
40	1	1
50	1	1
63	1	1
80	1	0,95
100	1	0,90
125	0,95	0,85
160	0,90	0,75
200	0,80	0,70
250	0,80	0,60

NH2

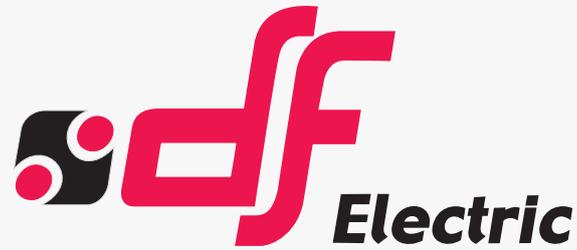
I_n	OPEN TYPE FUSE BASES	FUSE SWITCH DISCONNECTORS
(A)		
200	0,70	0,65
250	0,70	0,65
315	0,70	0,65
350	0,70	0,65
400	0,70	0,65
450	0,65	0,60
500	0,65	0,60
550	0,65	0,60
630	0,65	0,55
700	0,65	0,55

NH1

40	1	0,95
50	0,90	0,85
63	0,90	0,85
80	0,90	0,85
100	0,90	0,85
125	0,75	0,70
160	0,75	0,70
200	0,75	0,70
250	0,75	0,70
315	0,75	0,65
350	0,70	0,65
400	0,70	0,60

NH3

500	0,70	0,65
550	0,70	0,65
630	0,70	0,65
700	0,70	0,60
800	0,70	0,60
900	0,65	0,55
1000	0,60	0,50



PROTECTING THE WORLD

HEAD OFFICE AND FACTORY

SILICI, 67-69
08940 CORNELLA DE LLOBREGAT
BARCELONA · SPAIN
Tel. +34 93 377 85 85
Fax +34 93 377 82 82

INTERNATIONAL SALES

Tel. +34 93 475 08 64
Fax +34 93 480 07 75
export@dfelectric.es

NATIONAL SALES

Tel. 93 475 08 64
Fax 93 480 07 76
comercial@dfelectric.es



dfelectric.es



According to the waste of electrical and electronic equipment directive, electrical material should not be part of the usual waste. This symbol alerts users that these products should be recycled according to local environmental waste disposal regulations.



The "electro technical expert" logo marked on the products included in this data sheet indicates that the installation of these products must be carried out by expert personnel with specialized knowledge.



To prevent electrical hazards, carry out the installation without voltage.



Safety notice
Please capture the following QR code and read our safety notice carefully before installing our products.



The data reflected in this technical record are subject to the correct installation of the product in accordance with manufacturer's instructions, relevant installation standards and professional practices, maintained and used in applications for which they were made.

The products described in this document have been designed, developed and tested in accordance with specific standard. They are considered components that are integrated as part of installation, machine or equipment. The correct general operation of the referred product is responsibility of the manufacturer of the installation, machine or equipment.

DF ELECTRIC cannot guarantee the characteristics of an installation, machine or equipment that has been designed by a third party. Once a product has been selected, the user must verify that it is appropriate for its application, through the verifications and/or tests that it deems appropriate.

DF ELECTRIC retains the right to change the dimensions, specifications, materials or design of its products at any time with or without notice.

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