

FUSES FOR SEMICONDUCTOR PROTECTION

CYLINDRICAL FUSES – EUROPEAN STANDARD



SIBA cylindrical ultra-rapid fuses are available in 6 different sizes. They can be fitted with or without built-in striker pin for fuse blown indication or operation of microswitches.

Approval: 
 Standard: IEC 60269-1 and -4
 DIN VDE 0636-23
 UL 248-13
 Class: gR/aR/gRL
 Current ratings: 125 mA – 200 A

Size and voltage rating:

5 x 20 mm:	AC 250 V
6.35 x 32 mm:	AC 500 – 1000 V
10 x 38 mm:	AC 600 – 1000 V
14 x 51 mm:	AC 500/600V – 690/700 V
22 x 58 mm:	AC 500/600 V – 690/700 V
27 x 60 mm:	AC 660 V – 1000 V

Features / Benefits

- ▶ High interrupting rating up to 300 kA
- ▶ Voltage rating AC 250 V up to AC 1000 V
- ▶ Protection of Power Semiconductors according to IEC 60269-1 and -4
- ▶ With or without integrated striker pin
- ▶ Class aR according to IEC 60269-4 and DIN VDE 0636-40
- ▶ Class gR according DIN VDE 0636-40
- ▶ Fuse-Bases / Fuse-Clips and Accessories are available



FUSES FOR SEMICONDUCTOR PROTECTION

CYLINDRICAL FUSES – EUROPEAN STANDARD

Selection Guide

Fuse-Links

Size	Rated Voltage AC/DC	Indicator Type	Part No.	Selector Guide Page	Techn. Data Page	
5 x 20	AC 250 V	–	70 001 40	URZ 4	URZ 16	
5 x 20	AC 250 V	–	70 007 40	URZ 4	URZ 16	
6.35 x 32	AC 500/700 V	–	70 125 40	URZ 5	URZ 18	
6.35 x 32	AC 400 V	–	70 065 84	URZ 5	URZ 17	
6.35 x 32	AC/DC 1000 V	–	70 172 40	URZ 6	URZ 19	
10 x 38	AC 500 V	–	60 034 34	URZ 7	URZ 20	
10 x 38	AC 600 V	–	60 033 05	URZ 7	URZ 21	
10 x 38	AC 660 V	–	50 179 06	URZ 8	URZ 22	
10 x 38	AC/DC 1000 V	–	50 199 06	URZ 8	URZ 23	
14 x 51	AC 500/600 V	–	50 058 06	URZ 9	URZ 24	
14 x 51	AC 500/600 V	with striker pin	50 059 06	URZ 9	URZ 24	
14 x 51	AC 690 V	–	50 124 06	URZ 9	URZ 26	
14 x 51	AC 690 V	with striker pin	50 126 06	URZ 9	URZ 26	
14 x 51	AC 690 V	–	50 124 34	URZ 10	URZ 25	
14 x 51	DC 700 V	–	50 118 06	URZ 10	URZ 27	
14 x 51	DC 700 V	–	50 201 06	URZ 11	URZ 28	
22 x 58	AC 500/660 V	–	50 060 06	URZ 12	URZ 29	
22 x 58	AC 500/660 V	with striker pin	50 061 06	URZ 12	URZ 29	
22 x 58	AC 690 V	–	50 140 06	URZ 12	URZ 30	
22 x 58	AC 690 V	with striker pin	50 142 06	URZ 12	URZ 30	
22 x 58	AC 690 V	–	50 140 34	URZ 13	URZ 31	
27 x 60	AC 660 V	–	50 193 20	URZ 14	URZ 32	
27 x 60	AC 660 V	with striker pin	50 194 20	URZ 14	URZ 32	
27 x 60	AC 1000 V	–	50 196 20	URZ 14	URZ 33	
27 x 60	AC 1000 V	with striker pin	50 197 20	URZ 14	URZ 33	
27 x 60	DC 660 V	–	50 190 06	URZ 15	URZ 34	



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Selection Guide

Fuse-Holder

ZS-Module	Number of Poles	Indicator Type	Part No.	Techn. Data Page	
10 x 38	1	-	51 063 04.DC	URZ 37	
10 x 38	1	-	51 063 04	URZ 37	
10 x 38	2	-	51 063 04.2	URZ 37	
10 x 38	3	-	51 063 04.3	URZ 37	
10 x 38	1	diode indicator	51 063 04.L	URZ 37	
10 x 38	2	diode indicator	51 063 04.2L	URZ 37	
10 x 38	3	diode indicator	51 063 04.3L	URZ 37	
14 x 51	1	-	51 058 04	URZ 37	
14 x 51	2	-	51 058 04.2	URZ 37	
14 x 51	3	-	51 058 04.3	URZ 37	
14 x 51	1	micro switch	51 058 04.S	URZ 37	
14 x 51	2	micro switch	51 058 04.2S	URZ 37	
14 x 51	3	micro switch	51 058 04.3S	URZ 37	
22 x 58	1	-	51 060 04	URZ 37	
22 x 58	2	-	51 060 04.2	URZ 37	
22 x 58	3	-	51 060 04.3	URZ 37	
22 x 58	1	micro switch	51 060 04.S	URZ 37	
22 x 58	3	micro switch	51 060 04.3S	URZ 37	

Selection Guide

Fuse-Clips

Size	Part No.	Techn. Data Page	Type	
10 mm	61 017 01.2	URZ 35		
14 mm	61 001 01.2	URZ 35	screw	
22 mm	61 002 01.3	URZ 35	mountable	
27 mm	61 004 01.3	URZ 35		
14 mm	58 058 06	URZ 36	PCB	
22 mm	58 060 06	URZ 36	mountable	



FUSES FOR SEMICONDUCTOR PROTECTION

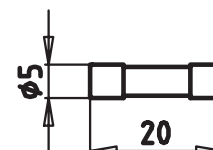
CYLINDRICAL FUSES – EUROPEAN STANDARD

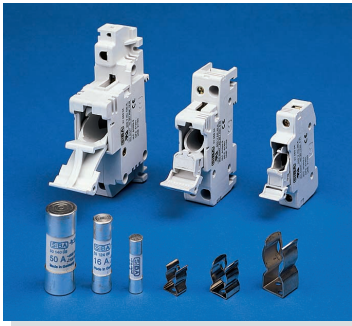
Size
5 x 20 mm

Rated voltage
AC 250 V

Class
aR

Rated current	Part No.	Rated breaking capacity	UL Rec.	Weight (kg/100)	Pack	
100 mA	70 001 40	300 kA	✓	0.14	100	
125 mA	70 001 40	300 kA	✓	0.14	100	
160 mA	70 001 40	300 kA	✓	0.14	100	
200 mA	70 001 40	300 kA	✓	0.14	100	
250 mA	70 001 40	300 kA	✓	0.14	100	
315 mA	70 001 40	300 kA	✓	0.14	100	
400 mA	70 001 40	300 kA	✓	0.14	100	
500 mA	70 001 40	300 kA	✓	0.14	100	
630 mA	70 001 40	300 kA	✓	0.14	100	
800 mA	70 001 40	300 kA	✓	0.14	100	
1 A	70 001 40	300 kA	✓	0.14	100	
1.25 A	70 001 40	300 kA	✓	0.14	100	
1.6 A	70 001 40	300 kA	✓	0.14	100	
2 A	70 001 40	300 kA	✓	0.14	100	
2.5 A	70 001 40	300 kA	✓	0.14	100	
3.15 A	70 001 40	300 kA	✓	0.14	100	
4 A	70 001 40	300 kA	✓	0.14	100	
5 A	70 001 40	300 kA	✓	0.14	100	
6.3 A	70 001 40	1.500 A		0.14	100	
8 A	70 001 40	1.500 A		0.14	100	
10 A	70 001 40	1.500 A		0.14	100	
6.3 A	70 007 40	300 kA	✓	0.14	100	
8 A	70 007 40	300 kA	✓	0.14	100	
10 A	70 007 40	300 kA	✓	0.14	100	
12.5 A	70 007 40	300 kA	✓	0.14	100	





FUSES FOR SEMICONDUCTOR PROTECTION

CYLINDRICAL FUSES – EUROPEAN STANDARD

Size
6.35 x 32 mm

Rated voltage
AC 400 V

Class
gRL

Rated current	Part No.	UL Rec.	Weight (kg/100)	Pack
16 A	70 065 84		0.9	10

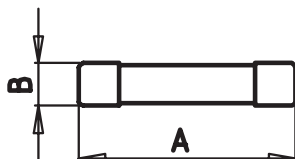
Size
6.35 x 32 mm

Rated voltage
AC 500/700 V

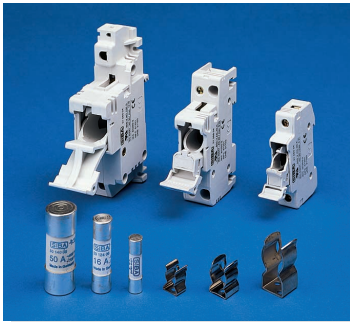
Class
aR

Rated current	Part No.	Rated breaking capacity	Rated voltage AC	UL Rec.	c UL	Weight (kg/100)	Pack
160 mA	70 125 40	50 kA	700 V	✓	✓	0.24	100
200 mA	70 125 40	50 kA	700 V	✓	✓	0.24	100
250 mA	70 125 40	50 kA	700 V	✓	✓	0.24	100
315 mA	70 125 40	50 kA	700 V	✓	✓	0.24	100
400 mA	70 125 40	50 kA	700 V	✓	✓	0.24	100
500 mA	70 125 40	50 kA	700 V	✓	✓	0.24	100
630 mA	70 125 40	50 kA	700 V	✓	✓	0.24	100
800 mA	70 125 40	50 kA	700 V	✓	✓	0.24	100
1 A	70 125 40	50 kA	700 V	✓	✓	0.24	100
1.25 A	70 125 40	50 kA	700 V	✓	✓	0.24	100
1.6 A	70 125 40	50 kA	700 V	✓	✓	0.24	100
2 A	70 125 40	50 kA	700 V	✓	✓	0.24	100
2.5 A	70 125 40	50 kA	500 V	✓	✓	0.24	100
3.15 A	70 125 40	50 kA	500 V	✓	✓	0.24	100
4 A	70 125 40	50 kA	500 V	✓	✓	0.24	100
5 A	70 125 40	50 kA	500 V	✓	✓	0.24	100
6.3 A	70 125 40	50 kA	500 V	✓	✓	0.24	100
8 A ¹	70 125 40	50 kA	500 V	✓	✓	0.24	100
10 A ¹	70 125 40	50 kA	500 V	✓	✓	0.24	100
12.5 A ¹	70 125 40	50 kA	500 V	✓	✓	0.24	100
16 A ¹	70 125 40	50 kA	500 V	✓	✓	0.24	100
20 A ¹	70 125 40	50 kA	500 V	✓	✓	0.24	100

¹ Consideration should be given to heat dissipation.



A 1.26" (32 mm)
B 0.25" (6.35 mm)



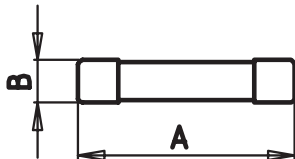
FUSES FOR SEMICONDUCTOR PROTECTION
CYLINDRICAL FUSES – EUROPEAN STANDARD

Size	Rated voltage	DMI	Class
6.35 x 32 mm	AC/DC 1000 V	fuse for digital measuring instruments	aR

Rated current	Part No.	UL Rec.	Weight (kg/100)	Pack
315 mA	70 172 40		0.24	100
500 mA	70 172 40		0.24	100
1.6 A	70 172 40		0.24	100



A	1.26" (32 mm)
B	0.25" (6.35 mm)





FUSES FOR SEMICONDUCTOR PROTECTION

CYLINDRICAL FUSES – EUROPEAN STANDARD

Size
10 x 38 mm

Rated voltage
AC 500 V

Class
gRL

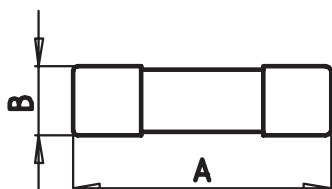
Rated current	Part No.	UL Rec.	Weight (kg/100)	Pack	
6 A	60 034 34	✓	0.9	10	
8 A	60 034 34	✓	0.9	10	
10 A	60 034 34	✓	0.9	10	
12 A	60 034 34	✓	0.9	10	
16 A	60 034 34	✓	0.9	10	
20 A	60 034 34	✓	0.9	10	
25 A	60 034 34	✓	0.9	10	
30 A	60 034 34	✓	0.9	10	

Size
10 x 38 mm

Rated voltage
AC 600 V

Class
aR

Rated current	Part No.	UL Rec.	Weight (kg/100)	Pack	
1 A	60 033 05		0.9	10	
2 A	60 033 05		0.9	10	
4 A	60 033 05		0.9	10	
5 A	60 033 05	✓	0.9	10	
6 A	60 033 05	✓	0.9	10	
8 A	60 033 05	✓	0.9	10	
10 A	60 033 05	✓	0.9	10	
12 A	60 033 05	✓	0.9	10	
16 A	60 033 05	✓	0.9	10	
20 A	60 033 05	✓	0.9	10	
25 A	60 033 05	✓	0.9	10	
30 A	60 033 05	✓	0.9	10	



A 1.50" (38 mm)
B 0.40" (10 mm)



FUSES FOR SEMICONDUCTOR PROTECTION

CYLINDRICAL FUSES – EUROPEAN STANDARD

Size
10 x 38 mm

Rated voltage
AC 660 V (IEC) · AC 700 V (UL)

Class
gR

Rated current	Part No.	UL Rec.	Weight (kg/100)	Pack
1 A	50 179 06		0.9	10
2 A	50 179 06		0.9	10
4 A	50 179 06	✓	0.9	10
5 A	50 179 06	✓	0.9	10
6 A	50 179 06	✓	0.9	10
8 A	50 179 06	✓	0.9	10
10 A	50 179 06	✓	0.9	10
12 A	50 179 06	✓	0.9	10
16 A	50 179 06	✓	0.9	10
20 A	50 179 06	✓	0.9	10
25 A	50 179 06	✓	0.9	10
30 A	50 179 06	✓	0.9	10

Size
10 x 38 mm

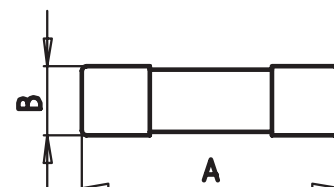
Rated voltage
AC/DC 1000 V

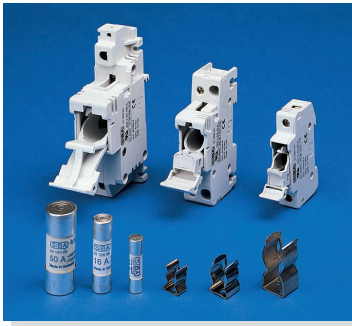
DMI
fuse for digital measuring instruments

Class
gR

Rated current	Part No.	UL Rec.	Weight (kg/100)	Pack
4 A	50 199 06		0.9	10
6 A	50 199 06		0.9	10
8 A	50 199 06		0.9	10
10 A	50 199 06		0.9	10
12 A	50 199 06		0.9	10
16 A	50 199 06		0.9	10

A 1.50" (38 mm)
B 0.40" (10 mm)





FUSES FOR SEMICONDUCTOR PROTECTION

CYLINDRICAL FUSES – EUROPEAN STANDARD

Size
14 x 51 mm

Rated voltage
AC 500 V (IEC) · AC 600 V (UL)

Class
aR

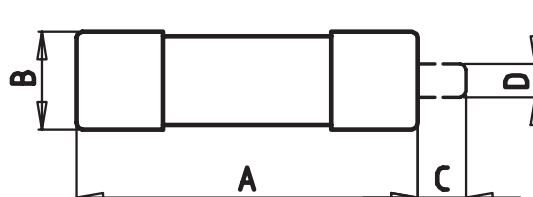
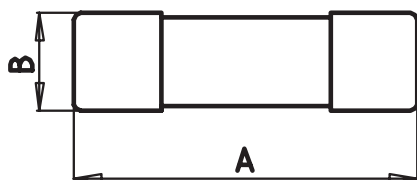
Rated current	Part No.	Part No. with striker pin	UL Rec.	Weight (kg/100)	Pack	
6 A	50 058 06	50 059 06		2.2	10	
8 A	50 058 06	50 059 06		2.2	10	
10 A	50 058 06	50 059 06		2.2	10	
12 A	50 058 06	50 059 06		2.2	10	
16 A	50 058 06	50 059 06		2.2	10	
20 A	50 058 06	50 059 06		2.2	10	
25 A	50 058 06	50 059 06		2.2	10	
32 A	50 058 06	50 059 06		2.2	10	
40 A	50 058 06	50 059 06		2.2	10	
50 A	50 058 06	50 059 06		2.2	10	

Size
14 x 51 mm

Rated voltage
AC 690 V (IEC) · AC 700 V (UL)

Class
gR

Rated current	Part No.	Part No. with striker pin	UL Rec.	Weight (kg/100)	Pack	
6 A	50 124 06	50 126 06	✓	2.2	10	
8 A	50 124 06	50 126 06	✓	2.2	10	
10 A	50 124 06	50 126 06	✓	2.2	10	
12 A	50 124 06	50 126 06	✓	2.2	10	
16 A	50 124 06	50 126 06	✓	2.2	10	
20 A	50 124 06	50 126 06	✓	2.2	10	
25 A	50 124 06	50 126 06	✓	2.2	10	
32 A	50 124 06	50 126 06	✓	2.2	10	
40 A	50 124 06	50 126 06	✓	2.2	10	
50 A	50 124 06	50 126 06		2.2	10	



without striker pin

A 2.00" (51 mm)

B 0.55" (14 mm)

with striker pin

A 2.00" (51 mm)

B 0.55" (14 mm)

C_{min} 0.28" (7 mm)

D 0.20" (4.9 mm)



FUSES FOR SEMICONDUCTOR PROTECTION

CYLINDRICAL FUSES – EUROPEAN STANDARD

Size
14 x 51 mm

Rated voltage
AC 690 V

Class
gRL

Rated current	Part No.	UL Rec.	Weight (kg/100)	Pack	
10 A	50 124 34		2.2	10	
12 A	50 124 34		2.2	10	
16 A	50 124 34		2.2	10	
20 A	50 124 34		2.2	10	
25 A	50 124 34		2.2	10	
30 A	50 124 34		2.2	10	
32 A	50 124 34		2.2	10	
35 A	50 124 34		2.2	10	
40 A	50 124 34		2.2	10	
50 A	50 124 34		2.2	10	

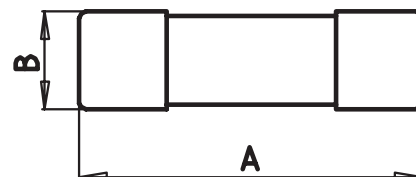
Size
14 x 51 mm

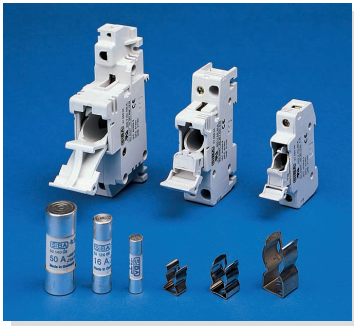
Rated voltage
DC 700 V

Class
gR

Rated current	Part No.	UL Rec.	Weight (kg/100)	Pack	
6 A	50 118 06	✓	2.2	10	
8 A	50 118 06	✓	2.2	10	
10 A	50 118 06	✓	2.2	10	
12 A	50 118 06	✓	2.2	10	
16 A	50 118 06	✓	2.2	10	
20 A	50 118 06	✓	2.2	10	
25 A	50 118 06	✓	2.2	10	
30 A	50 118 06	✓	2.2	10	
35 A	50 118 06		2.2	10	
40 A	50 118 06		2.2	10	
50 A	50 118 06		2.2	10	

A 2.00" (51 mm)
B 0.55" (14 mm)

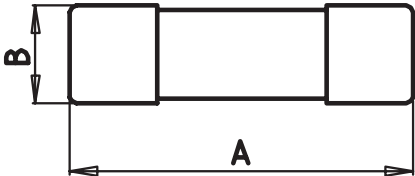




FUSES FOR SEMICONDUCTOR PROTECTION
CYLINDRICAL FUSES – EUROPEAN STANDARD

Size	Rated voltage	Class
14 x 51 mm	DC 700 V	aR

Rated current	Part No.	UL Rec.	Weight (kg/100)	Pack	
10 A	50 201 06	✓	2.2	10	
12 A	50 201 06	✓	2.2	10	
16 A	50 201 06	✓	2.2	10	
20 A	50 201 06	✓	2.2	10	
12 A	50 201 06	✓	2.2	10	
25 A	50 201 06	✓	2.2	10	
32 A	50 201 06	✓	2.2	10	
40 A	50 201 06	✓	2.2	10	
50 A	50 201 06	✓	2.2	10	



A	2.00" (51 mm)
B	0.55" (14 mm)



FUSES FOR SEMICONDUCTOR PROTECTION

CYLINDRICAL FUSES – EUROPEAN STANDARD

Size
22 x 58 mm

Rated voltage
AC 500 V (IEC) · AC 600 V (UL)

Class
aR

Rated current	Part No.	Part No. with striker pin	UL Rec.	Weight (kg/100)	Pack	
12 A	50 060 06	50 061 06		5.5	10	
16 A	50 060 06	50 061 06		5.5	10	
20 A	50 060 06	50 061 06		5.5	10	
25 A	50 060 06	50 061 06		5.5	10	
32 A	50 060 06	50 061 06		5.5	10	
40 A	50 060 06	50 061 06		5.5	10	
50 A	50 060 06	50 061 06		5.5	10	
63 A	50 060 06	50 061 06		5.5	10	
80 A	50 060 06	50 061 06		5.5	10	
100 A	50 060 06	50 061 06		5.5	10	

Size
22 x 58 mm

Rated voltage
AC 690 V (IEC) · AC 700 V (UL)

Class
gR

Rated current	Part No.	Part No. with striker pin	UL Rec.	Weight (kg/100)	Pack	
12 A	50 140 06	50 142 06	✓	5.5	10	
16 A	50 140 06	50 142 06	✓	5.5	10	
20 A	50 140 06	50 142 06	✓	5.5	10	
25 A	50 140 06	50 142 06	✓	5.5	10	
32 A	50 140 06	50 142 06	✓	5.5	10	
40 A	50 140 06	50 142 06	✓	5.5	10	
50 A	50 140 06	50 142 06	✓	5.5	10	
63 A	50 140 06	50 142 06	✓	5.5	10	
80 A	50 140 06	50 142 06	✓	5.5	10	
100 A	50 140 06	50 142 06	✓	5.5	10	

without striker pin

A 2.28" (58 mm)

B 0.87" (22 mm)

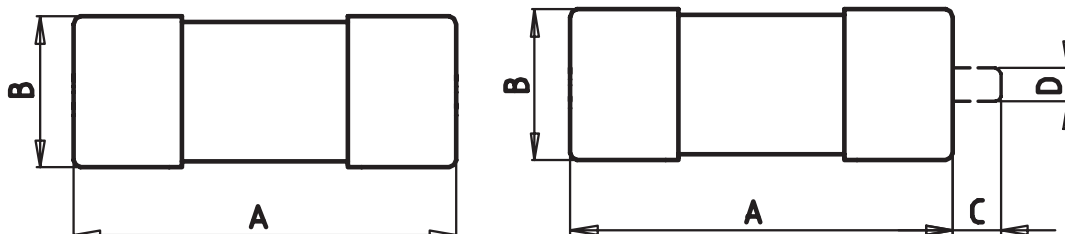
with striker pin

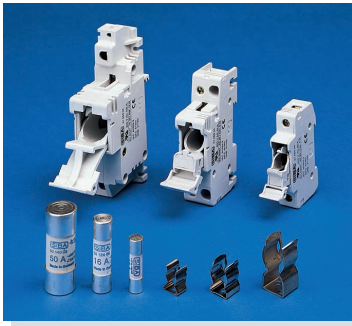
A 2.28" (58 mm)

B 0.87" (22 mm)

C_{min} 0.28" (7 mm)

D 0.20" (4.9 mm)





FUSES FOR SEMICONDUCTOR PROTECTION

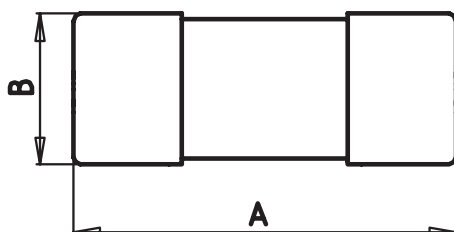
CYLINDRICAL FUSES – EUROPEAN STANDARD

Size
22 x 58 mm

Rated voltage
AC 690 V

Class
gRL

Rated current	Part No.	UL Rec.	Weight (kg/100)	Pack	
25 A	50 140 34		5.5	10	
30 A	50 140 34		5.5	10	
32 A	50 140 34		5.5	10	
35 A	50 140 34		5.5	10	
50 A	50 140 34		5.5	10	
63 A	50 140 34		5.5	10	
80 A	50 140 34		5.5	10	
100 A	50 140 34		5.5	10	



A 2.28" (58 mm)
B 0.87" (22 mm)



FUSES FOR SEMICONDUCTOR PROTECTION

CYLINDRICAL FUSES – EUROPEAN STANDARD

Size
27 x 60 mm

Rated voltage
AC 660 V

Class
aR

Rated current	Part No.	Part No. with striker pin	UL Rec.	Weight (kg/100)	Pack	
20 A	50 193 20	50 194 20		6.0	10	
25 A	50 193 20	50 194 20		6.0	10	
32 A	50 193 20	50 194 20		6.0	10	
40 A	50 193 20	50 194 20		6.0	10	
50 A	50 193 20	50 194 20		6.0	10	
63 A	50 193 20	50 194 20		6.0	10	
100 A	50 193 20	50 194 20		6.0	10	
125 A	50 193 20	50 194 20		6.0	10	
200 A	50 193 20	50 194 20		6.0	10	
250 A	50 193 20	50 194 20		6.0	10	

Size
27 x 60 mm

Rated voltage
AC 1000 V

Class
aR

Rated current	Part No.	Part No. with striker pin	UL Rec.	Weight (kg/100)	Pack	
32 A	50 196 20	50 197 20		6.0	10	
40 A	50 196 20	50 197 20		6.0	10	
50 A	50 196 20	50 197 20		6.0	10	
63 A	50 196 20	50 197 20		6.0	10	
80 A	50 196 20	50 197 20		6.0	10	
100 A	50 196 20	50 197 20		6.0	10	
125 A	50 196 20	50 197 20		6.0	10	
160 A	50 196 20	50 197 20		6.0	10	
170 A	50 196 20	50 197 20		6.0	10	

without striker pin

A 2.36" (60 mm)

B 1.06" (27 mm)

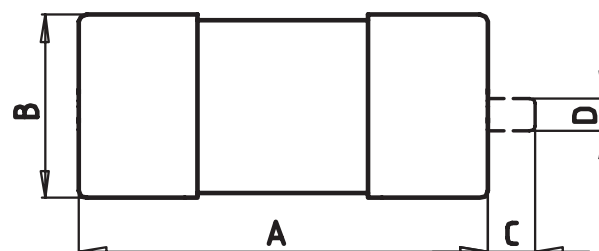
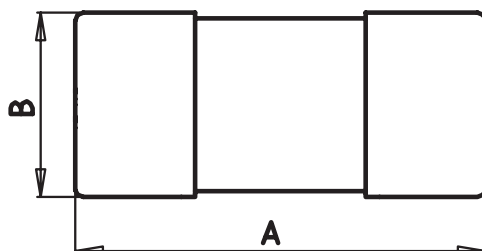
with striker pin

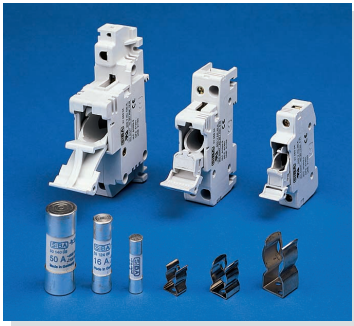
A 2.36" (60 mm)

B 1.06" (27 mm)

C_{min} 0.28" (7 mm)

D 0.20" (4.9 mm)





FUSES FOR SEMICONDUCTOR PROTECTION

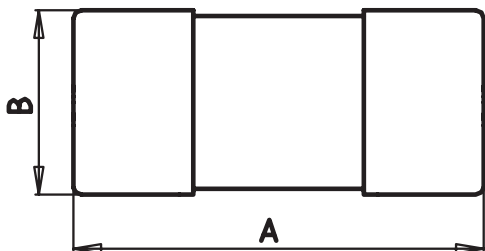
CYLINDRICAL FUSES – EUROPEAN STANDARD

Size
27 x 60 mm

Rated voltage
AC 660 V

Class
gR

Rated current	Part No.	UL Rec.	Weight (kg/100)	Pack	
8 A	50 190 06		6.0	10	
10 A	50 190 06		6.0	10	
12 A	50 190 06		6.0	10	
16 A	50 190 06		6.0	10	
20 A	50 190 06		6.0	10	
25 A	50 190 06		6.0	10	
32 A	50 190 06		6.0	10	
40 A	50 190 06		6.0	10	
50 A	50 190 06		6.0	10	
63 A	50 190 06		6.0	10	
80 A	50 190 06		6.0	10	
100 A	50 190 06		6.0	10	
110 A	50 190 06		6.0	10	



without striker pin
A 2.36" (60 mm)
B 1.06" (27 mm)

Size
5 x 20 mm

 Rated voltage
AC 250 V
Ceramic tube

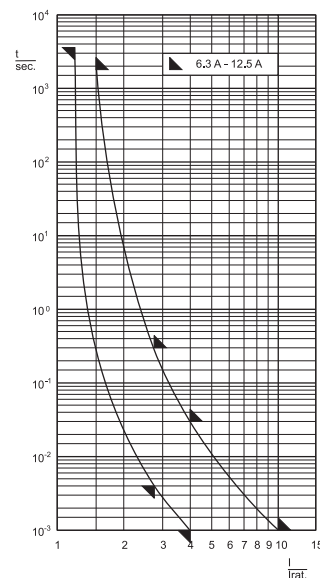
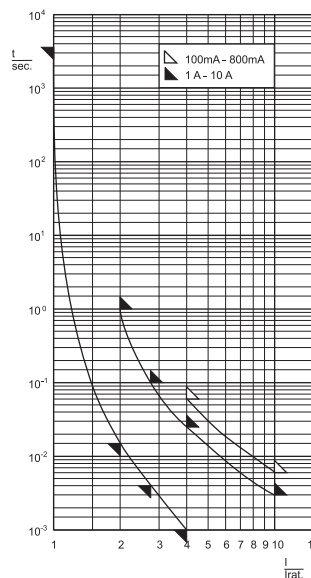
Rated current	Part No.	Max. voltage drop mV	Power loss W	Pre-arcing I^2t -value A ² s	Total I^2t -value A ² s	Rated breaking capacity
100 mA	70 001 40	4000	0.4	0.0016	0.0023	
125 mA	70 001 40	3500	0.5	0.0024	0.0034	
160 mA	70 001 40	1300	0.3	0.004	0.0056	
200 mA	70 001 40	1100	0.3	0.008	0.011	
250 mA	70 001 40	1000	0.3	0.019	0.027	
315 mA	70 001 40	900	0.3	0.03	0.042	
400 mA	70 001 40	850	0.4	0.065	0.09	
500 mA	70 001 40	800	0.4	0.12	0.17	
630 mA	70 001 40	700	0.5	0.17	0.24	300 kA at AC 250 V cos phi < 0.2
800 mA	70 001 40	600	0.5	0.26	0.36	
1 A	70 001 40	750	0.8	0.17	0.26	
1.25 A	70 001 40	750	1.0	0.26	0.39	
1.6 A	70 001 40	700	1.2	0.31	0.51	
2 A	70 001 40	650	1.3	0.64	1	
2.5 A	70 001 40	600	1.5	0.88	1.5	
3.15 A	70 001 40	550	1.8	1.6	2.7	
4 A	70 001 40	500	2.0	3.2	5.4	
5 A	70 001 40	500	2.4	5.9	10	
6.3 A	70 001 40	450	2.8	10	17	1500 kA at AC 250 V
8 A	70 001 40	400	3.2	19	32	
10 A	70 001 40	400	4.0	30	54	
6.3 A	70 007 40	250	2.8	1.6	4.8	300 kA at AC 250 V cos phi < 0.2
8 A	70 007 40	250	3.0	4.5	14	
10 A	70 007 40	200	3.4	8.8	26	
12.5 A	70 007 40	200	4.0	15	44	

Pre-arcing time limits**Part No. 70 001 40**

Rated current	1.0 I_{rat}	2.0 I_{rat}	2.75 I_{rat}	4 I_{rat}	10 I_{rat}
160 mA ▼ 800 mA	> 1 h	> 1 h	> 1 h	< 60 ms	< 6 ms
1 A ▼ 5 A		15 ms ▼ 1 s	4 ms ▼ 100 ms	1 ms ▼ 25 ms	< 3 ms

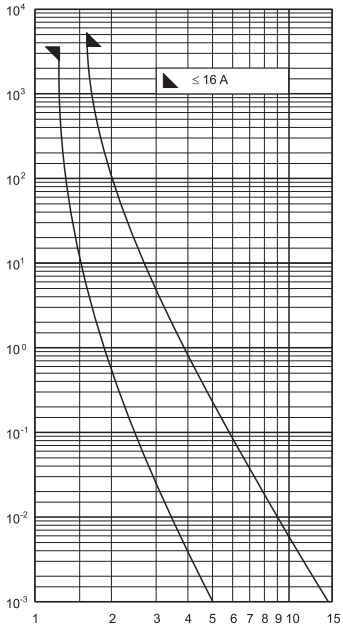
Part No. 70 007 40

Rated current	1.2 I_{rat}	1.5 I_{rat}	2.75 I_{rat}	4 I_{rat}	10 I_{rat}
6.3 A ▼ 20 A	> 1 h	< 30 min	4 ms ▼ 300 ms	1 ms ▼ 30 ms	< 1 ms



Size 6.35 x 32 mm	Rated voltage AC 400 V	Operating class gRL	Rated breaking capacity 100 kA
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Rated current	Part No. without striker	Power Loss	Pre-arcing I^2t -value A ² s	Total I^2t -value A ² s
16 A	70 065 84	2.3	20	120



Size
6.35 x 32 mm

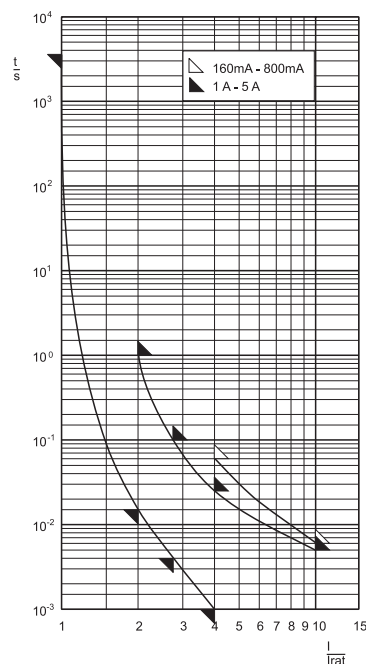
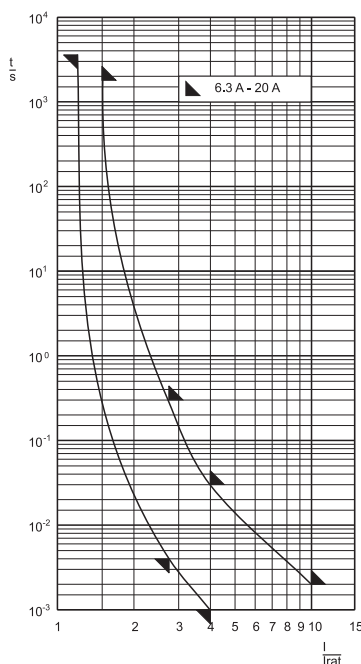
Rated Voltage
AC 500/700 V

Ceramic tube

Rated current	Part No.	Max. voltage drop mV	Pre-arcing I^2t -value A ² s	Total I^2t -value A ² s	Rated breaking capacity	Rated voltage
160 mA	70 125 40	2,000	0.004	0.014		
200 mA	70 125 40	1,600	0.008	0.03		
250 mA	70 125 40	1,500	0.024	0.08		
315 mA	70 125 40	1,350	0.035	0.12		
400 mA	70 125 40	1,030	0.07	0.24	50 kA at AC 700 V cos phi < 0.2	AC 700 V
500 mA	70 125 40	950	0.14	0.48		
630 mA	70 125 40	860	0.14	0.5		
800 mA	70 125 40	760	0.22	0.8		
1 A	70 125 40	1,100	0.14	0.5		
1.25 A	70 125 40	1,000	0.22	0.8		
1.6 A	70 125 40	900	0.31	1.1		
2 A	70 125 40	800	0.64	2.2		
2.5 A	70 125 40	800	1.2	3		
3.15 A	70 125 40	700	2	5		
4 A	70 125 40	500	5	13		
5 A	70 125 40	400	10	25	50 kA at AC 500 V cos phi < 0.2	AC 500 V
6.3 A	70 125 40	400	3	14		
8 A	70 125 40	350	6.5	30		
10 A	70 125 40	350	12	55		
12.5 A	70 125 40	300	18	80		
16 A	70 125 40	300	31	140		
20 A	70 125 40	300	46	200		

Pre-arcing time limits

Rated current	1.0 I_{rat}	2.0 I_{rat}	2.75 I_{rat}	4 I_{rat}	10 I_{rat}
160 mA ▼ 800 mA	> 1 h	> 1 h	> 1 h	< 60 ms	< 6 ms
1 A ▼ 5 A		15 ms ▼ 1 s	4 ms ▼ 100 ms	1 ms ▼ 25 ms	< 5 ms
Rated current	1.2 I_{rat}	1.5 I_{rat}	2.75 I_{rat}	4 I_{rat}	10 I_{rat}
6.3 A ▼ 20 A	> 1 h	< 30 min	4 ms ▼ 300 ms	1 ms ▼ 30 ms	< 2 ms



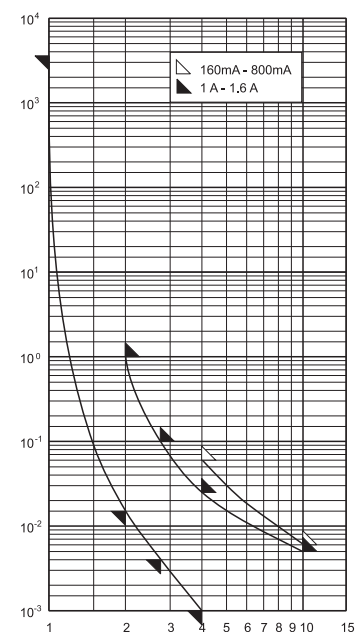
Size
6.35 x 32 mm

Rated voltage
AC/DC 1000 V

Rated current	Part No. without striker	Power loss W	Pre-arcing I ² t-value A ² s	Total I ² t-value @ 600 V A ² s	Rated breaking capacity
315 mA	70 172 40	0.7	0.35	0.35	50 kA at AC 1000 V cos phi < 0.19 50 kA at DC 1000 V L/R = 1 ms
500 mA	70 172 40	0.8	0.14	1.5	
1.6 A	70 172 40	1.9	0.31	3	

Pre-arcing time limits

Rated current	1.0 I _{rat}	2.0 I _{rat}	2.75 I _{rat}	4 I _{rat}	10 I _{rat}
315 mA ▼ 500 mA	> 1 h	> 1 h	> 1 h	< 60 ms	< 6 ms
1.6 A		15 ms ▼ 1 s	4 ms ▼ 100 ms	1 ms ▼ 25 ms	< 5 ms



Size
10 x 38 mm

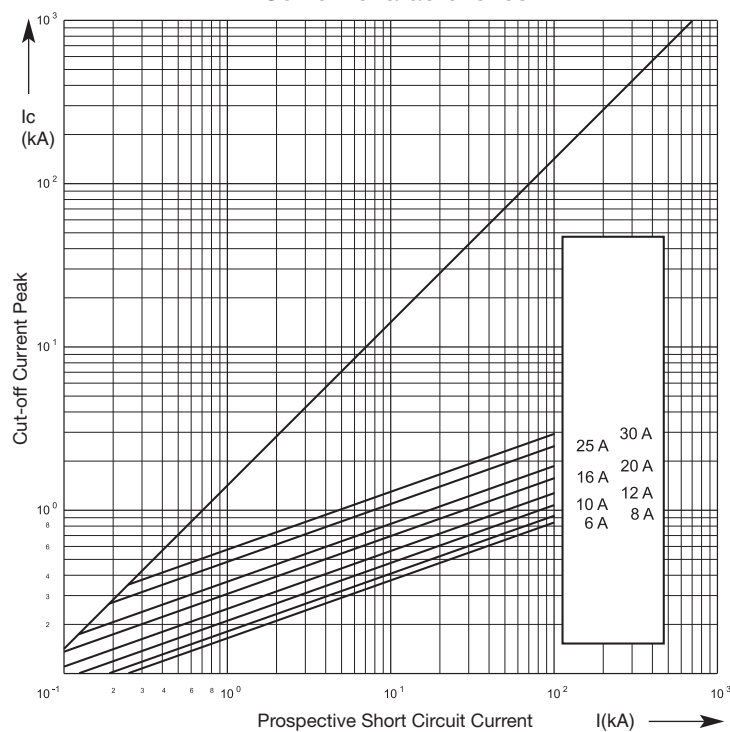
 Rated voltage
AC 500 V

 Operating class
gRL

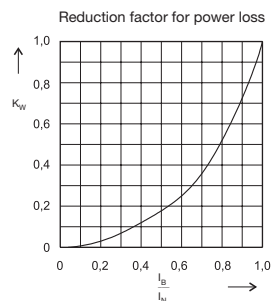
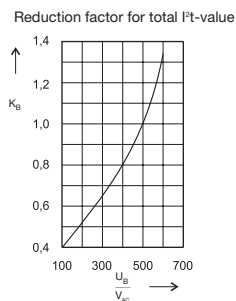
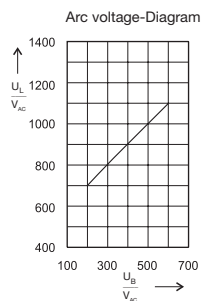
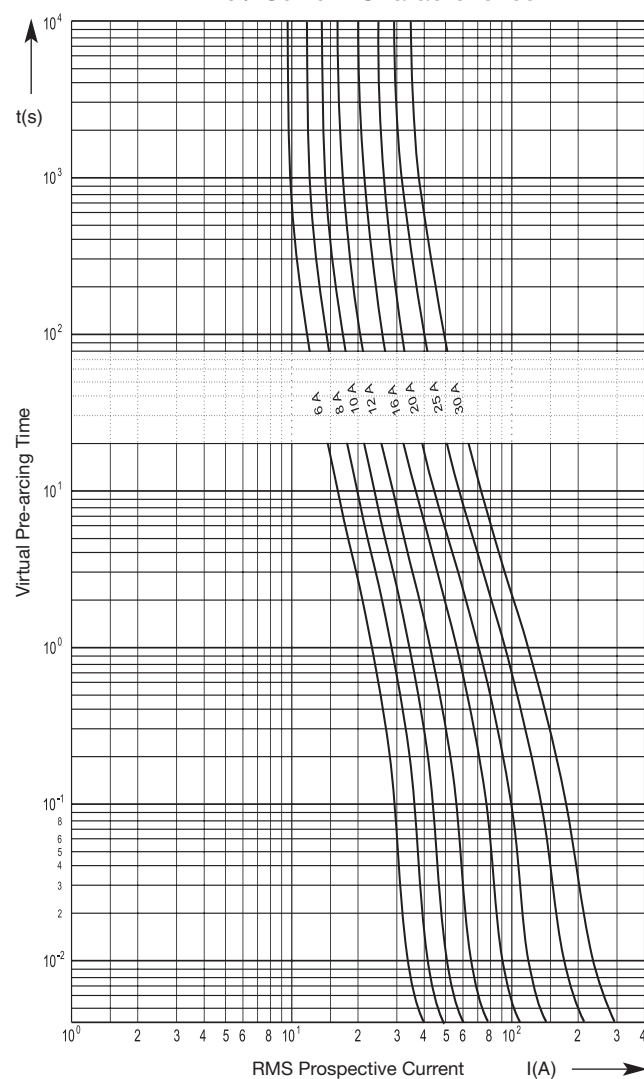
 Rated breaking capacity
100 kA

Rated current	Part No. without striker	Power Loss	Pre-arcing I ² t-value A ² s	Total I ² t-value @ 500 V A ² s	
6 A	60 034 34	1	2.5	20	
8 A	60 034 34	1.3	3.3	36	
10 A	60 034 34	1.1	5.1	41	
12 A	60 034 34	1.9	8.7	69	
16 A	60 034 34	2.4	17	130	
20 A	60 034 34	3.5	29	240	
25 A	60 034 34	3.8	66	530	
30 A	60 034 34	4.3	120	950	

Cut-off-characteristics



Time / Current Characteristics



Size
10 x 38 mm

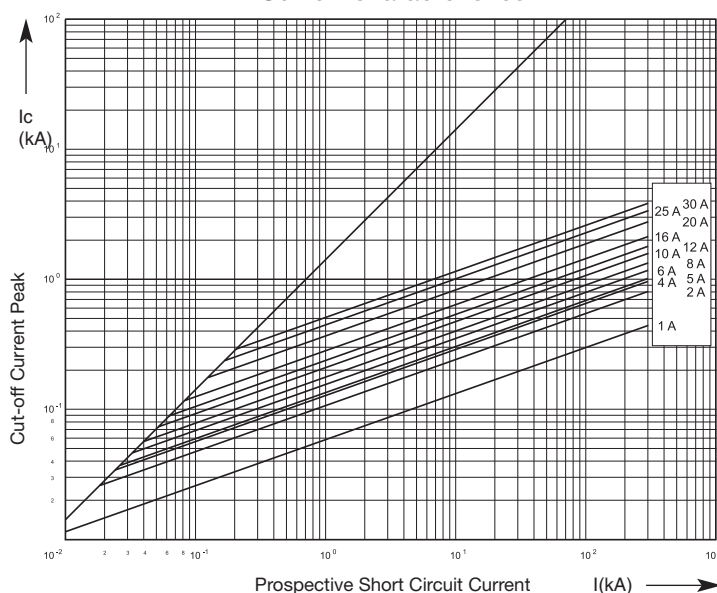
Rated voltage
AC 600 V

Operating class
aR

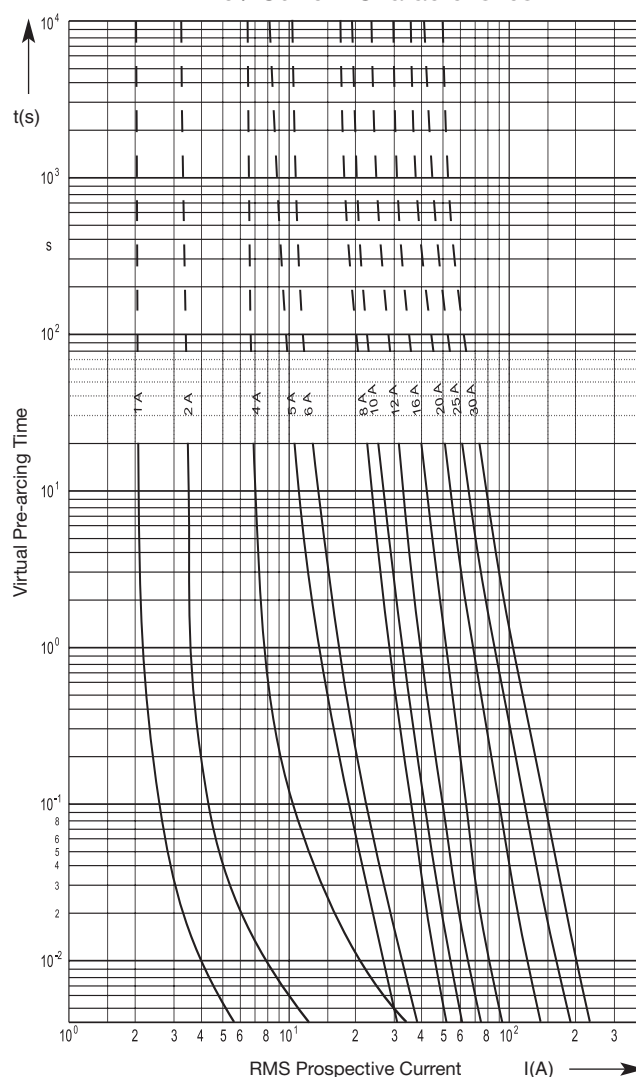
Rated breaking capacity
300 kA

Rated current	Part No.	Power loss W	Pre-arcing I ² t-value A ² s	Total I ² t-value @ 600 V A ² s
1 A	60 033 05	1	0.1	0.9
2 A	60 033 05	1.8	0.64	5.8
4 A	60 033 05	1.1	1.1	6
5 A	60 033 05	1.4	1.3	12
6 A	60 033 05	1.6	2.0	18
8 A	60 033 05	1.8	3	28
10 A	60 033 05	2.1	5.1	48
12 A	60 033 05	2.5	7.4	63
16 A	60 033 05	3	13	120
20 A	60 033 05	3.6	29	200
25 A	60 033 05	4.5	52	420
30 A	60 033 05	5.8	81	730

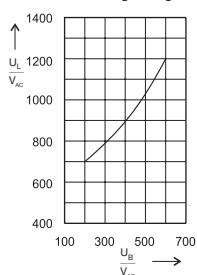
Cut-off-characteristics



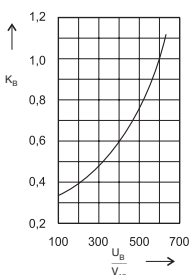
Time / Current Characteristics



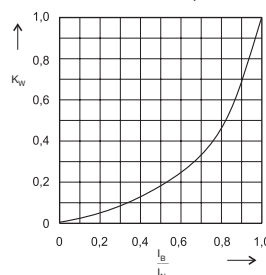
Arc voltage-Diagram



Reduction factor for total I²t-value



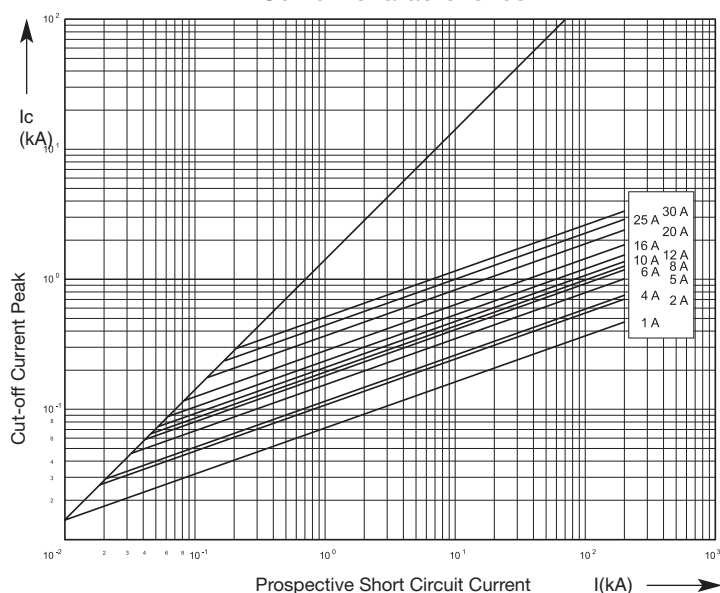
Reduction factor for power loss



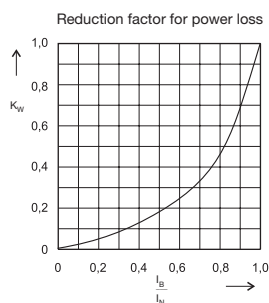
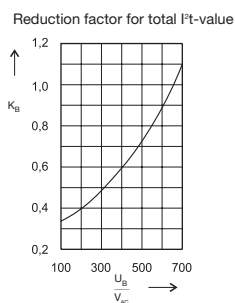
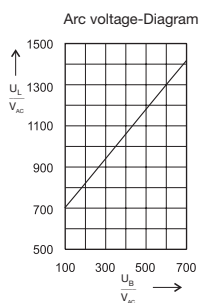
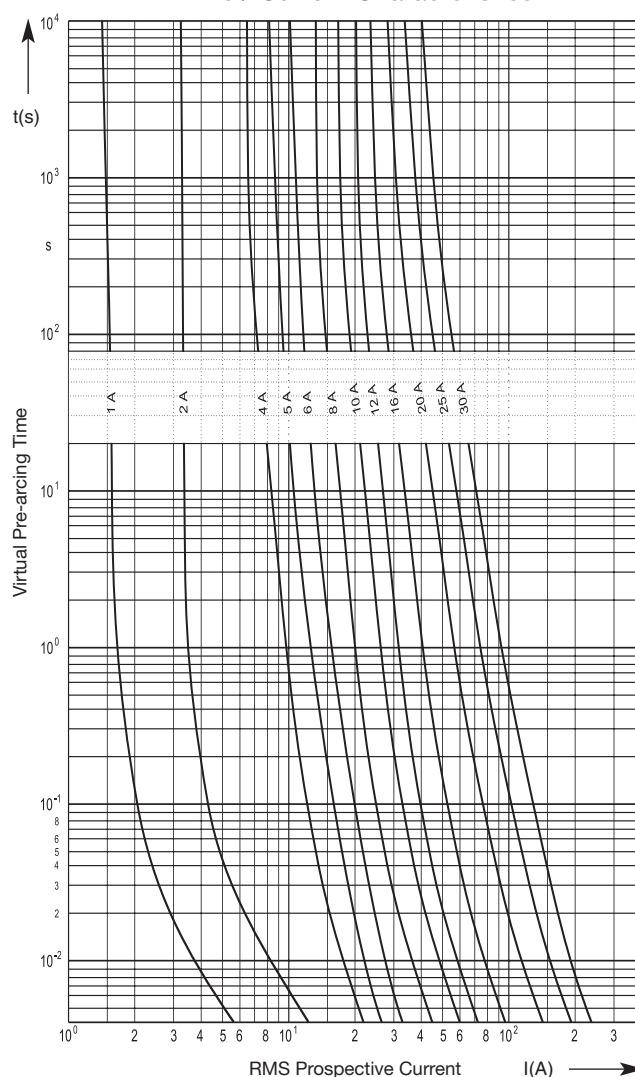
Size **10 x 38 mm** Rated voltage **AC 660 V (IEC) · AC 700 V (UL)** Operating class **gR** Rated breaking capacity **200 kA**

Rated current	Part No.	Power loss W	Pre-arcing I^2t -value A ² s	Total I^2t -value @ 660 V A ² s	
1 A	50 179 06	1.0	0.93	1.6	
2 A	50 179 06	1.8	0.64	8	
4 A	50 179 06	1.1	0.8	10	
5 A	50 179 06	1.5	2.0	25	
6 A	50 179 06	1.8	3.0	38	
8 A	50 179 06	1.8	3.1	39	
10 A	50 179 06	2.3	5.1	64	
12 A	50 179 06	2.8	7.4	93	
16 A	50 179 06	3.7	13.1	164	
20 A	50 179 06	4.7	29	360	
25 A	50 179 06	5.4	52	650	
30 A	50 179 06	6.4	81	1,010	

Cut-off-characteristics



Time / Current Characteristics



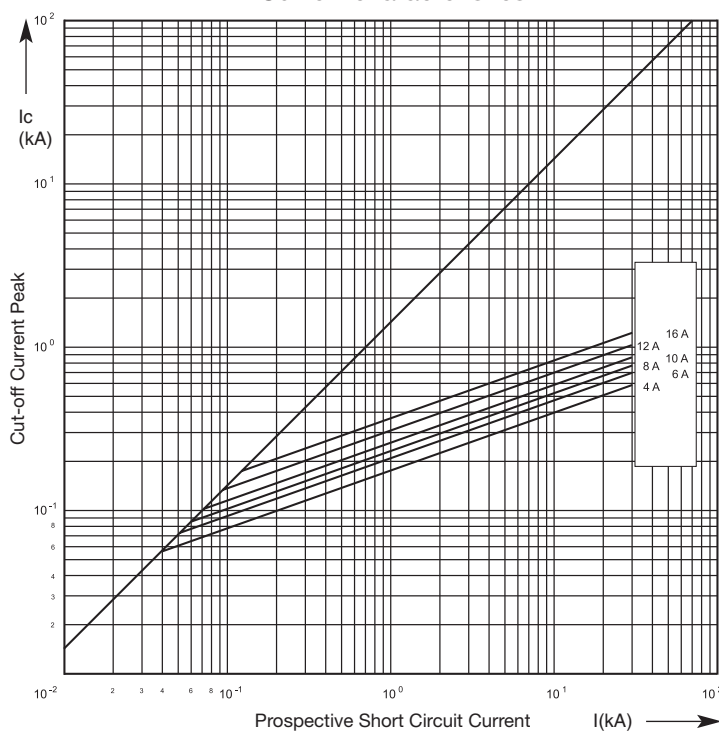
Size
10 x 38 mm

Rated voltage
AC/DC 1000 V

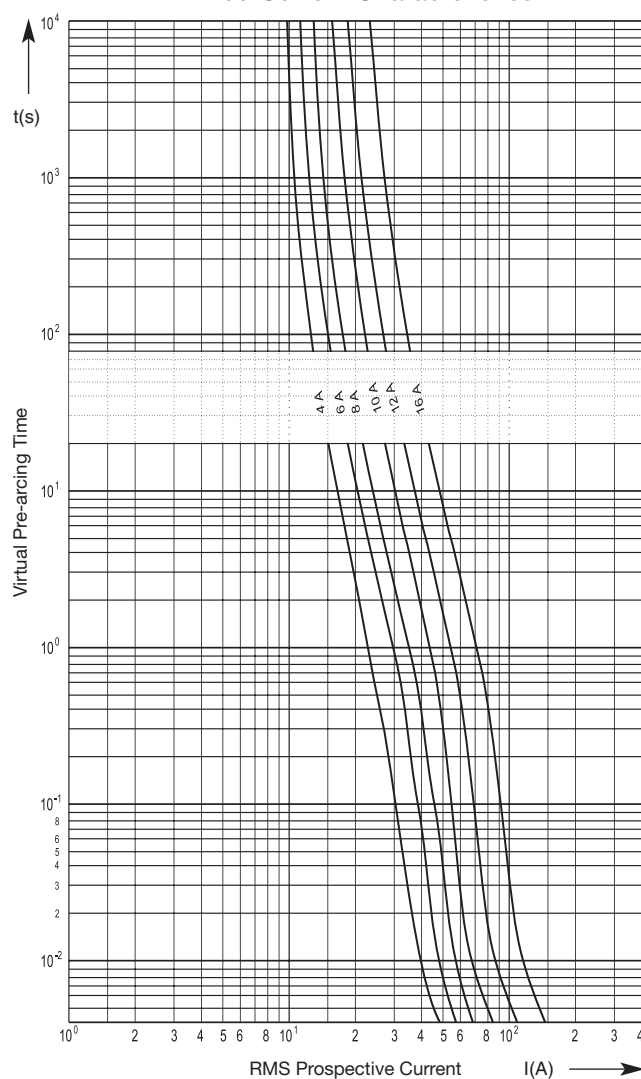
Rated breaking capacity
30 kA (cos phi 0.5 / L/R = 1 ms)

Rated current	Part No.	Power loss W	Pre-arcing I ² t-value A ² s	Total I ² t-value @ AC 1000 V A ² s	Total I ² t-value @ DC 1000 V A ² s	
4 A	50 199 06	0.5	3	35	18	
6 A	50 199 06	0.7	5	55	28	
8 A	50 199 06	1.1	7	79	40	
10 A	50 199 06	1.5	10	106	53	
12 A	50 199 06	1.6	17	180	90	
16 A	50 199 06	2.1	30	320	160	

Cut-off-characteristics



Time / Current Characteristics



Size
14 x 51 mm

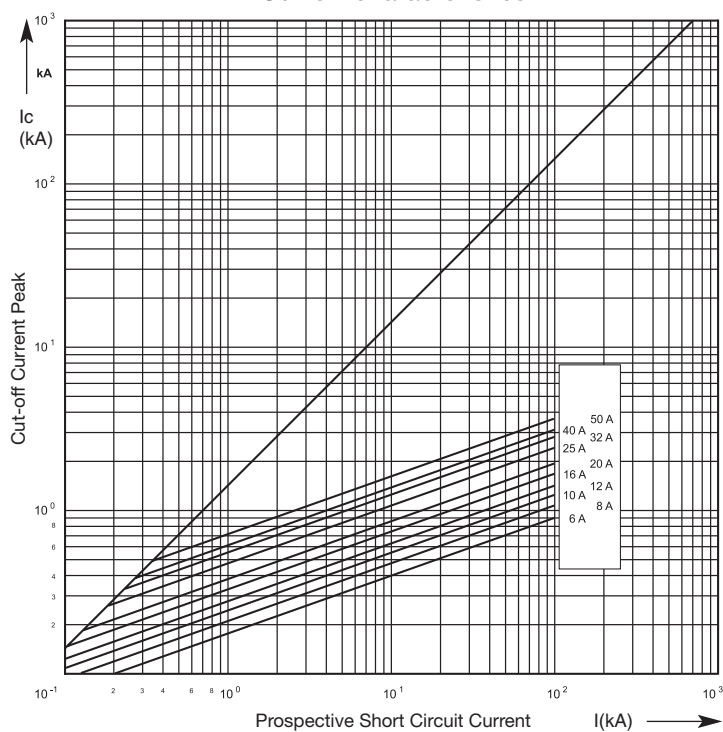
 Rated voltage
AC 600 V

 Operating class
aR

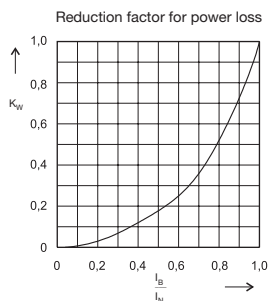
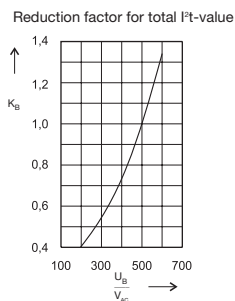
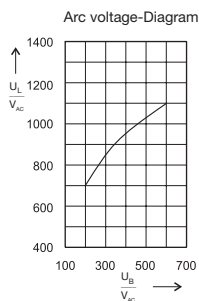
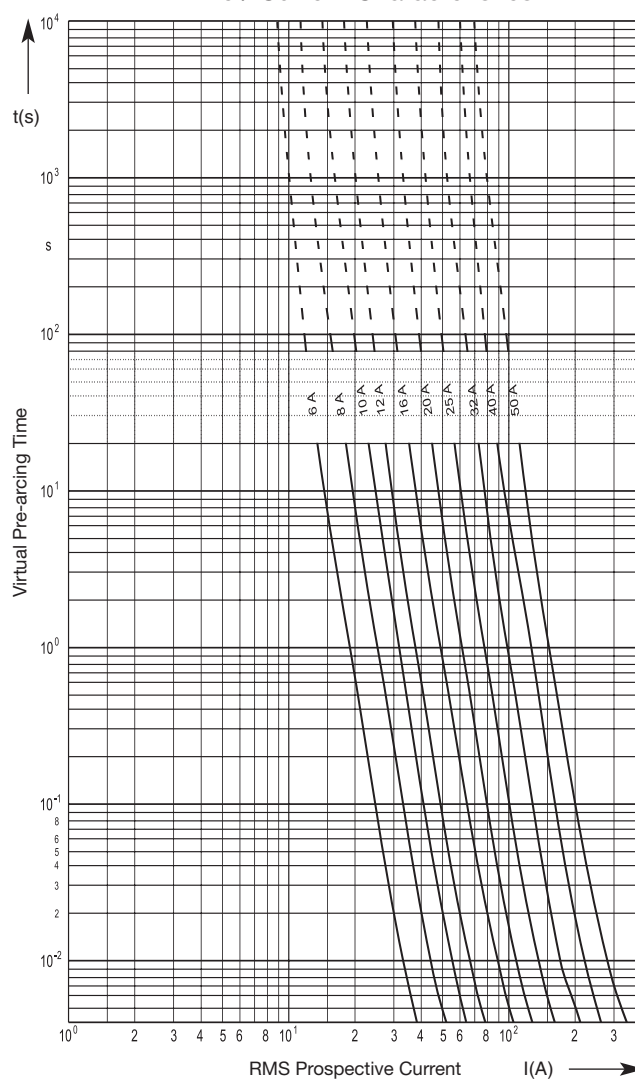
 Rated breaking capacity
100 kA

Rated current	Part No.	Part No. with striker pin	Power loss W	Pre-arcing I ² t-value A ² s	Total I ² t-value @ 500 V A ² s
6 A	50 058 06	50 059 06	1.3	3	18
8 A	50 058 06	50 059 06	1.7	5	27
10 A	50 058 06	50 059 06	2.4	8	48
12 A	50 058 06	50 059 06	2.5	12	93
16 A	50 058 06	50 059 06	4.0	21	150
20 A	50 058 06	50 059 06	4.6	32	250
25 A	50 058 06	50 059 06	6.4	63	400
32 A	50 058 06	50 059 06	8.2	104	680
40 A	50 058 06	50 059 06	9.1	140	1,200
50 A	50 058 06	50 059 06	12.0	230	1,600

Cut-off-characteristics



Time / Current Characteristics



Size
14 x 51 mm

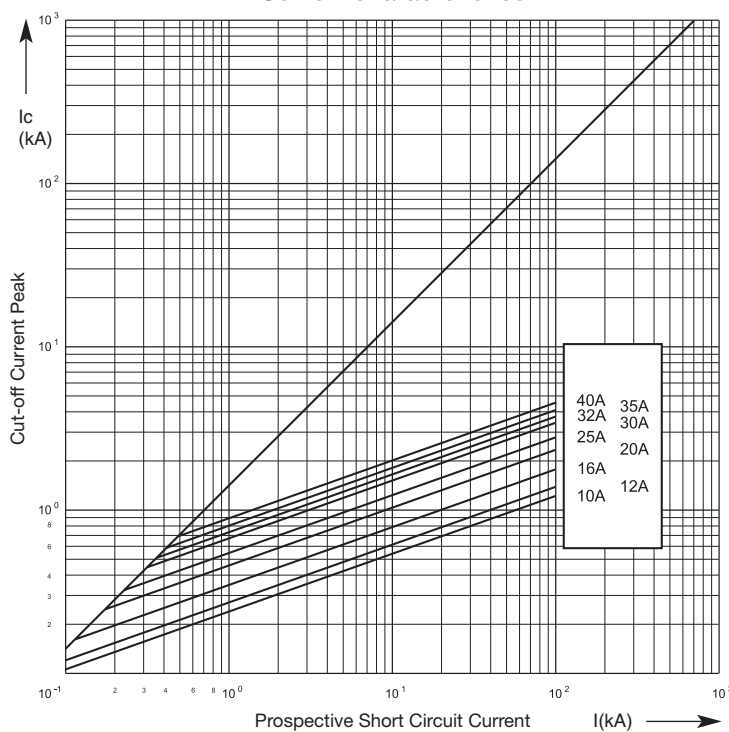
Rated voltage
AC 690 V

Operating class
gRL

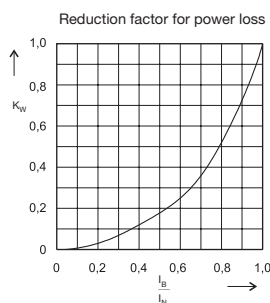
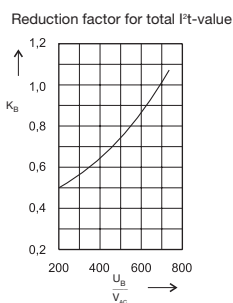
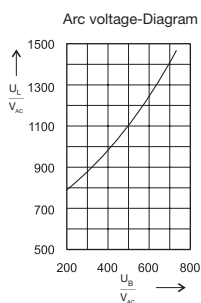
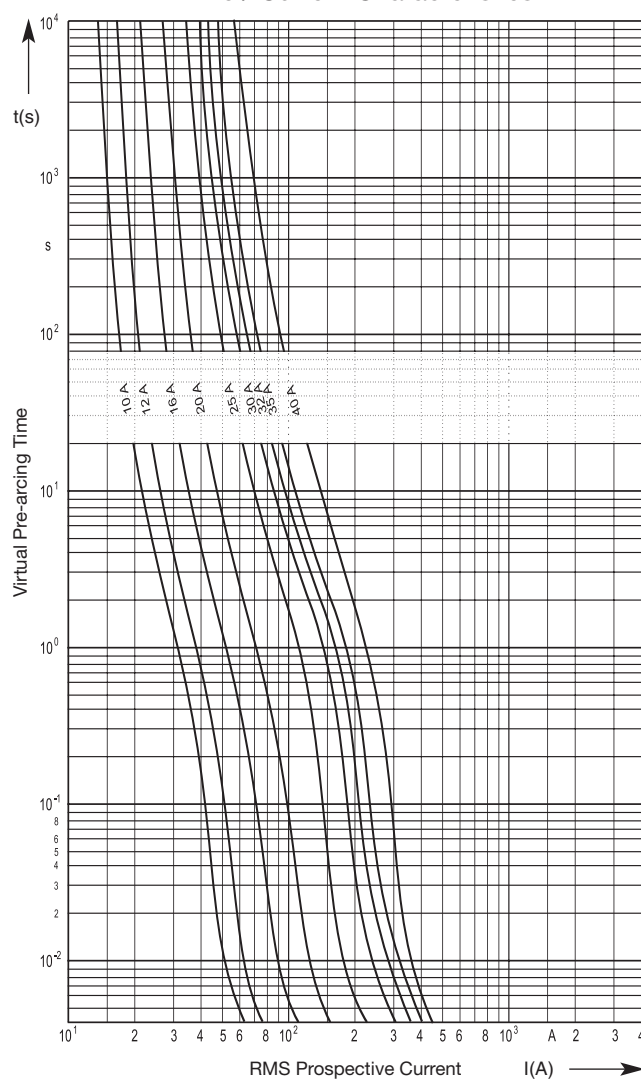
Rated breaking capacity
100 kA

Rated current	Part No.	Power loss W	Pre-arcing I ² t-value A ² s	Total I ² t-value @ 690 V A ² s
10 A	50 124 34	1.9	8	60
12 A	50 124 34	2.3	12	90
16 A	50 124 34	2.8	25	190
20 A	50 124 34	3.0	46	340
25 A	50 124 34	3.2	100	740
30 A	50 124 34	3.8	190	1,400
32 A	50 124 34	4.0	250	1,900
35 A	50 124 34	4.2	370	2,800
40 A	50 124 34	4.4	420	3,100

Cut-off-characteristics



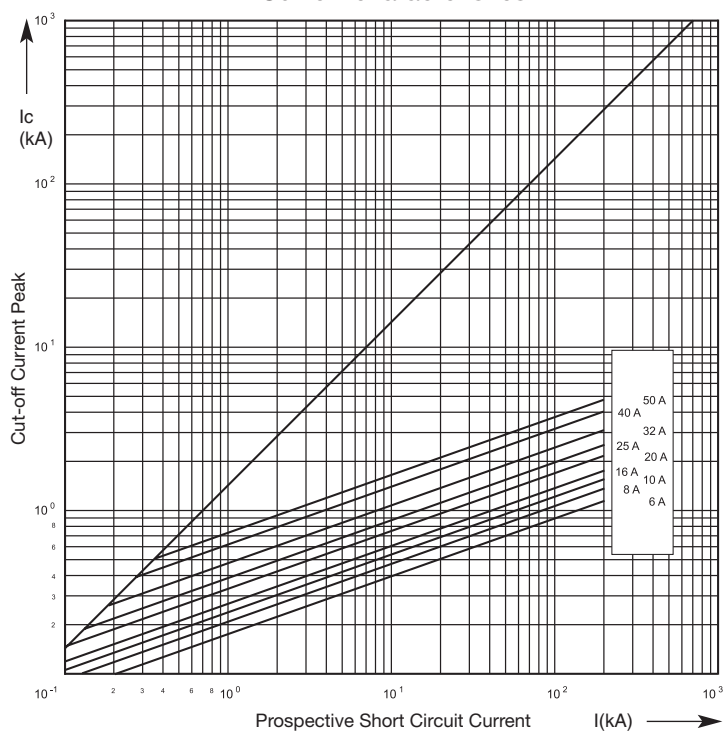
Time / Current Characteristics



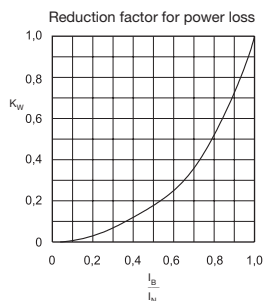
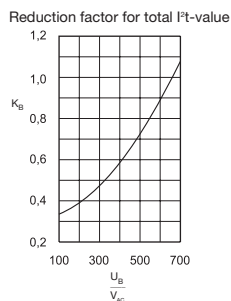
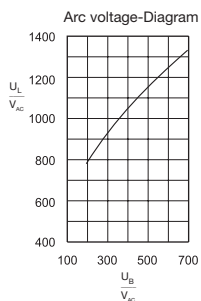
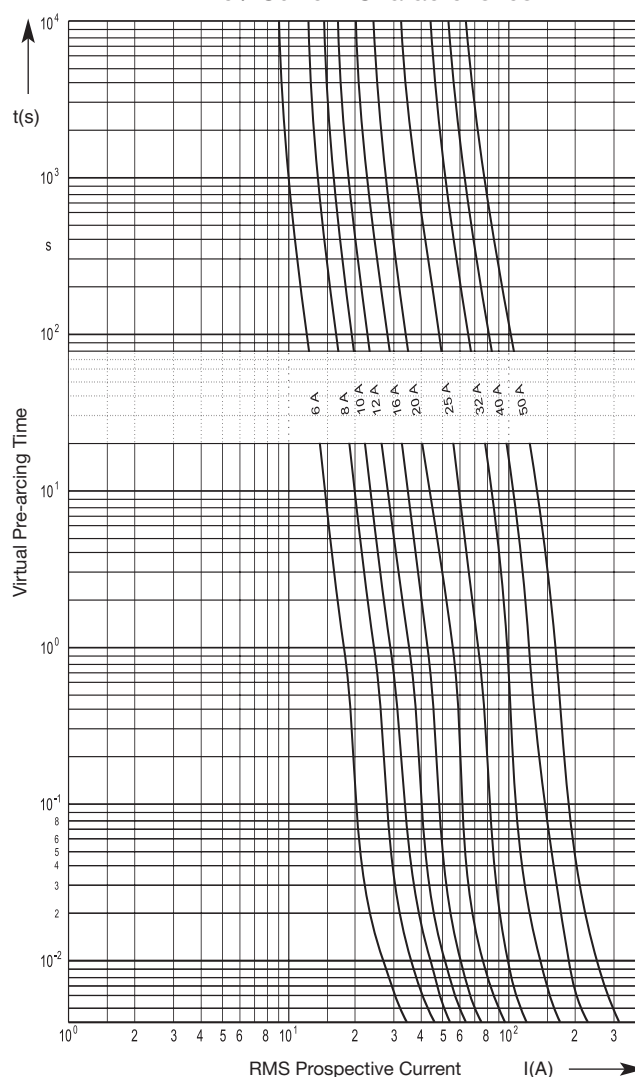
Size **14 x 51 mm** Rated voltage **AC 690 V (IEC) · AC 700 V (UL)** Operating class **gR** Rated breaking capacity **200 kA**

Rated current	Part No. without striker pin	Part No. with striker pin	Power loss W	Pre-arcing I ² t-value A ² s	Total I ² t-value @ 660 V A ² s
6 A	50 124 06	50 126 06	1.3	2.9	18
8 A	50 124 06	50 126 06	1.7	5.1	28
10 A	50 124 06	50 126 06	2.6	7.7	39
12 A	50 124 06	50 126 06	3.1	8.1	75
16 A	50 124 06	50 126 06	4.7	11	115
20 A	50 124 06	50 126 06	6.0	21	190
25 A	50 124 06	50 126 06	7.6	32	340
32 A	50 124 06	50 126 06	9.5	63	620
40 A	50 124 06	50 126 06	10.0	140	1,050
50 A	50 124 06	50 126 06	12.0	250	1,900

Cut-off-characteristics



Time / Current Characteristics



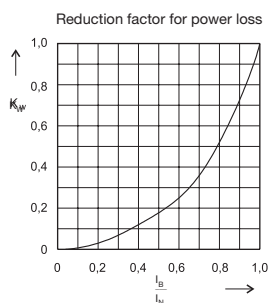
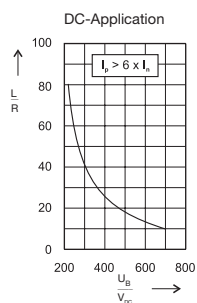
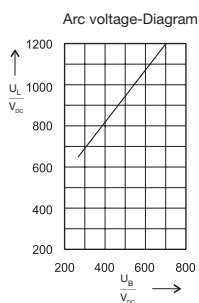
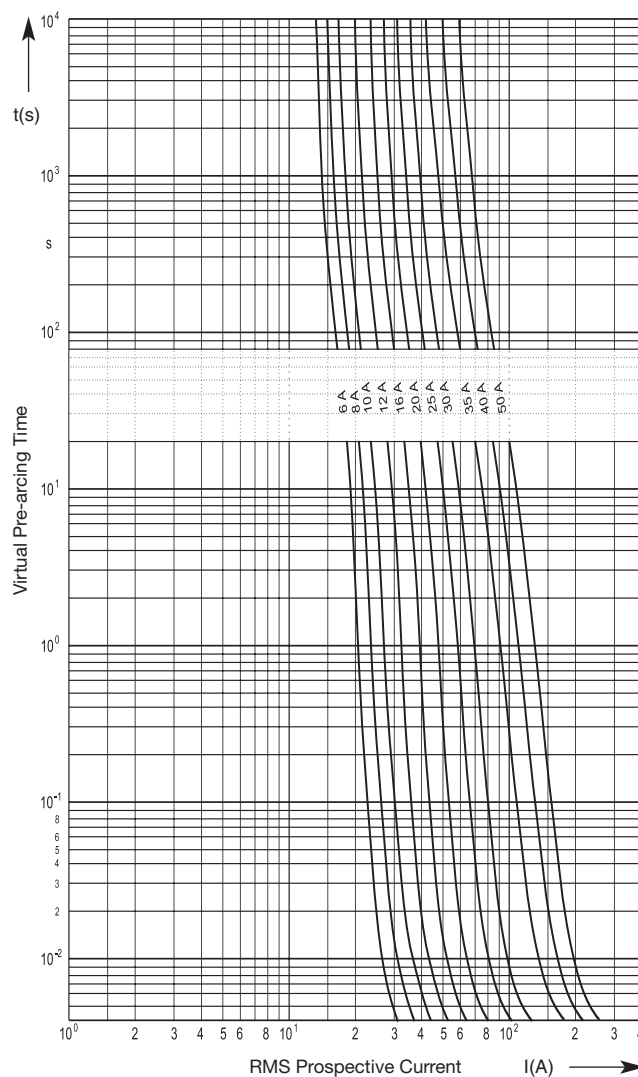
Size
14 x 51 mm

Rated voltage
DC 700 V

Rated breaking capacity
50 kA

Rated current	Part No.	Power loss W	Pre-arcing I ² t-value A ² s	Total I ² t-value @ 700 V A ² s
6 A	50 118 06	1.3	2.0	12
8 A	50 118 06	1.7	2.9	17
10 A	50 118 06	2.6	3.9	25
12 A	50 118 06	3.1	6.5	41
16 A	50 118 06	4.7	8.0	52
20 A	50 118 06	6.0	12	70
25 A	50 118 06	7.6	20	130
30 A	50 118 06	9.8	32	190
35 A	50 118 06	10.3	72	430
40 A	50 118 06	11.2	103	620
50 A	50 118 06	12.6	128	770

Time / Current Characteristics



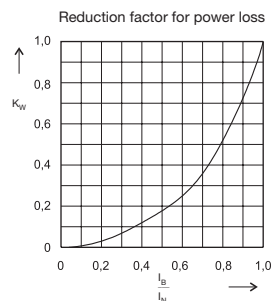
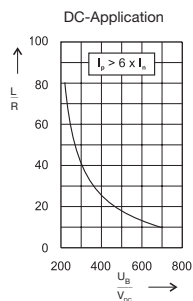
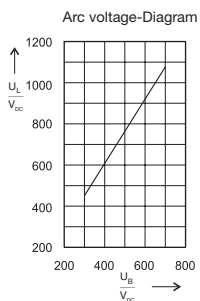
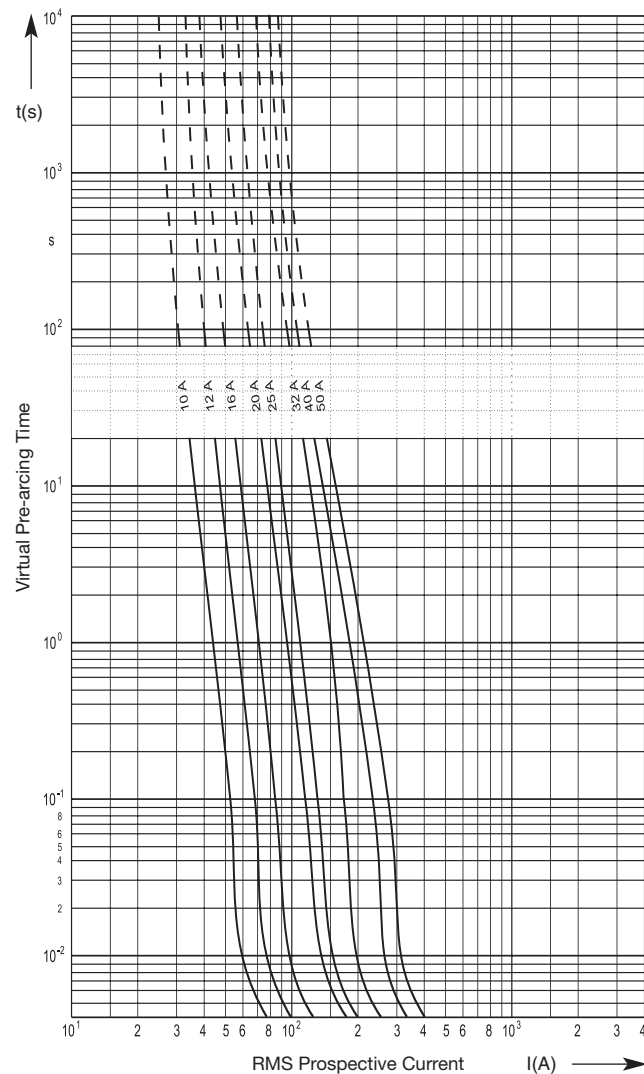
Size
14 x 51 mm

 Rated voltage
DC 700 V

 Rated breaking capacity
30 kA

Rated current	Part No.	Power loss W	Pre-arcing I ² t-value A ² s	Total I ² t-value @ 700 V A ² s	
10 A	50 201 06	1.1	12	67	
12 A	50 201 06	1.2	20	120	
16 A	50 201 06	2.0	32	190	
20 A	50 201 06	2.3	63	360	
25 A	50 201 06	3.1	82	480	
32 A	50 201 06	4.1	130	740	
40 A	50 201 06	4.6	250	1,460	
50 A	50 201 06	7.0	330	1,900	

Time / Current Characteristics



Size
22 x 58 mm

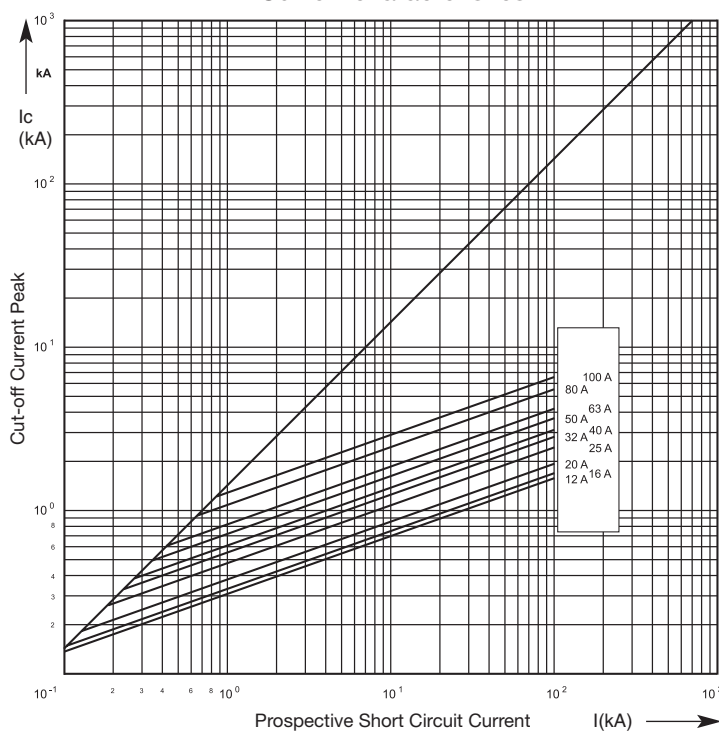
Rated voltage
AC 600 V

Operating class
aR

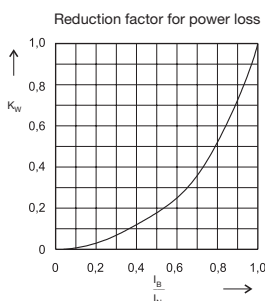
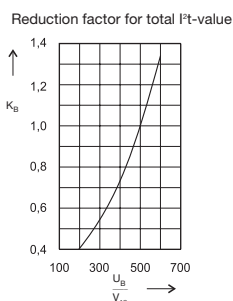
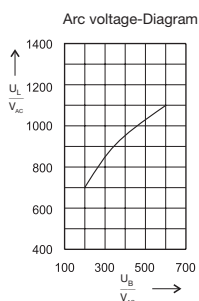
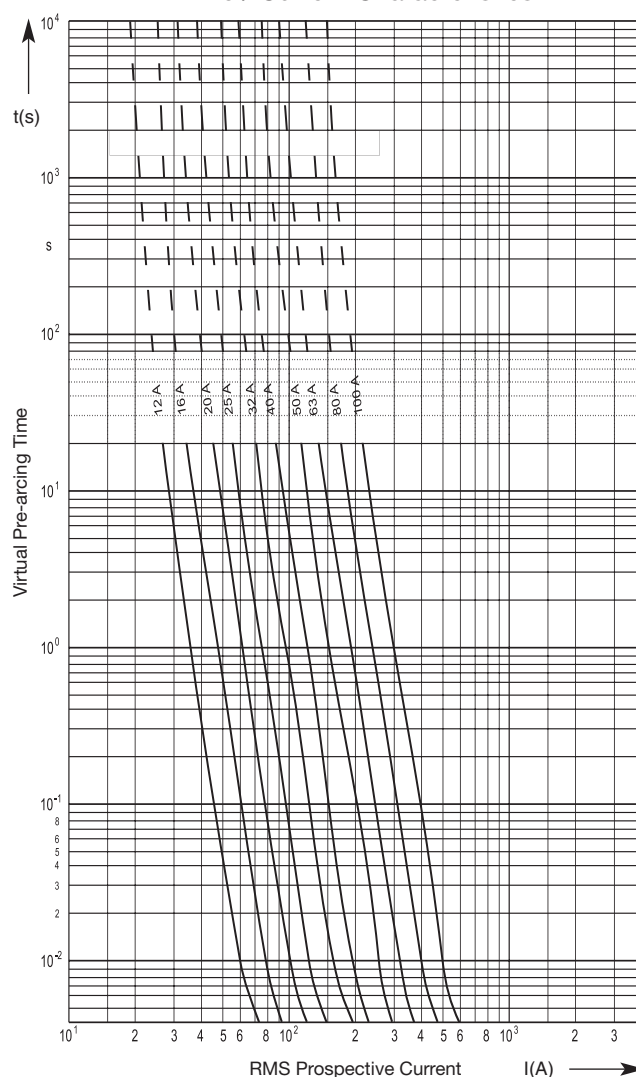
Rated breaking capacity
100 kA

Rated current	Part No.	Part No. with striker pin	Power loss W	Pre-arcing I ² t-value A ² s	Total I ² t-value @ 500 V A ² s
12 A	50 060 06	50 061 06	2.1	16	93
16 A	50 060 06	50 061 06	3.6	21	170
20 A	50 060 06	50 061 06	4.6	32	250
25 A	50 060 06	50 061 06	5.3	63	400
32 A	50 060 06	50 061 06	8.2	104	730
40 A	50 060 06	50 061 06	8.6	140	1000
50 A	50 060 06	50 061 06	11	230	1800
63 A	50 060 06	50 061 06	15	350	2600
80 A	50 060 06	50 061 06	18	740	5000
100 A	50 060 06	50 061 06	20	1400	10000

Cut-off-characteristics



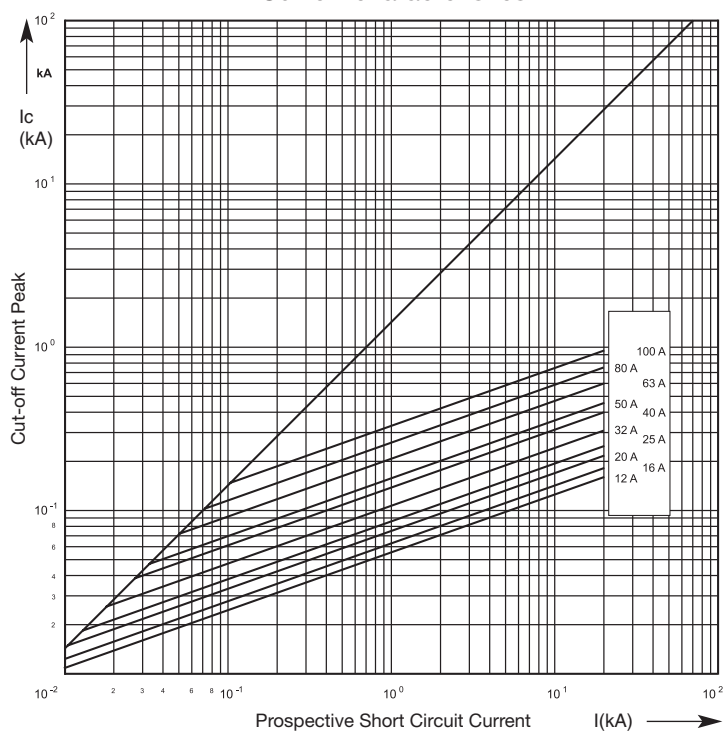
Time / Current Characteristics



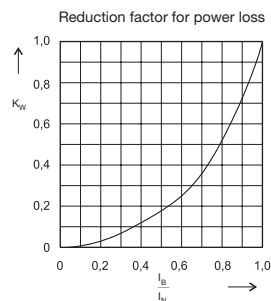
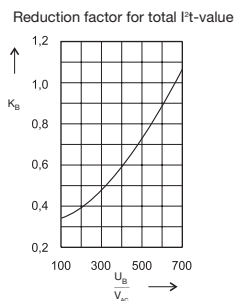
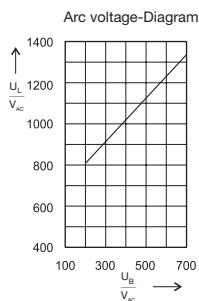
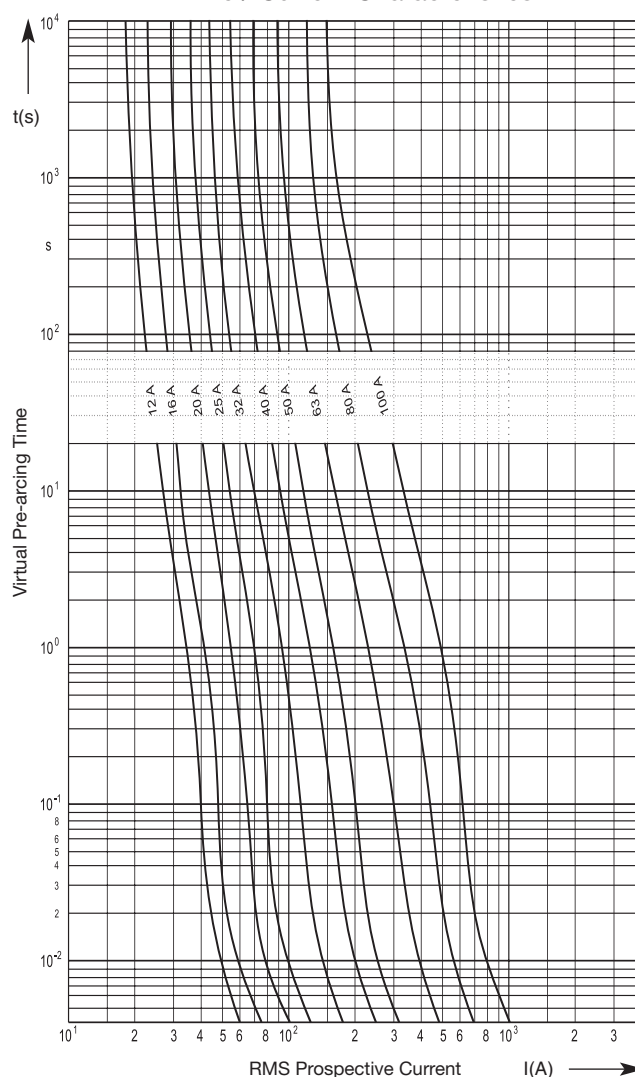
Size **22 x 58 mm** Rated voltage **AC 690 V (IEC) · AC 700 V (UL)** Operating class **gR** Rated breaking capacity **200 kA**

Rated current	Part No.	Part No. with striker pin	Power loss W	Pre-arcing I ² t-value A ² s	Total I ² t-value @ 660 V A ² s
12 A	50 140 06	50 142 06	4.8	8	35
16 A	50 140 06	50 142 06	5.5	12	52
20 A	50 140 06	50 142 06	6.0	21	91
25 A	50 140 06	50 142 06	7.2	32	140
32 A	50 140 06	50 142 06	9.6	63	315
40 A	50 140 06	50 142 06	12	140	610
50 A	50 140 06	50 142 06	15	210	910
63 A	50 140 06	50 142 06	16	510	2,260
80 A	50 140 06	50 142 06	18	1,000	4,400
100 A	50 140 06	50 142 06	19	2,050	8,900

Cut-off-characteristics



Time / Current Characteristics



Size
22 x 58 mm

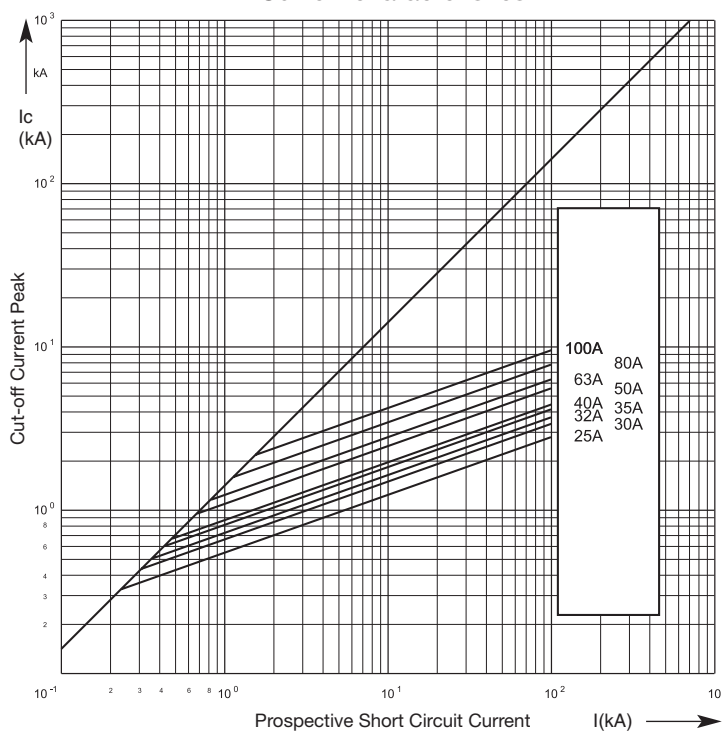
Rated voltage
AC 690 V

Operating class
gRL

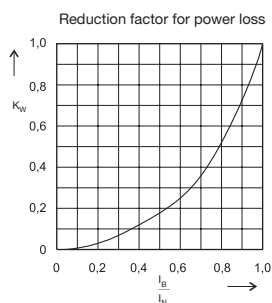
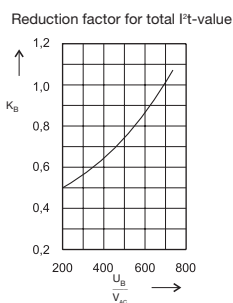
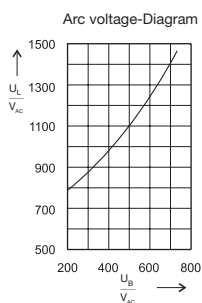
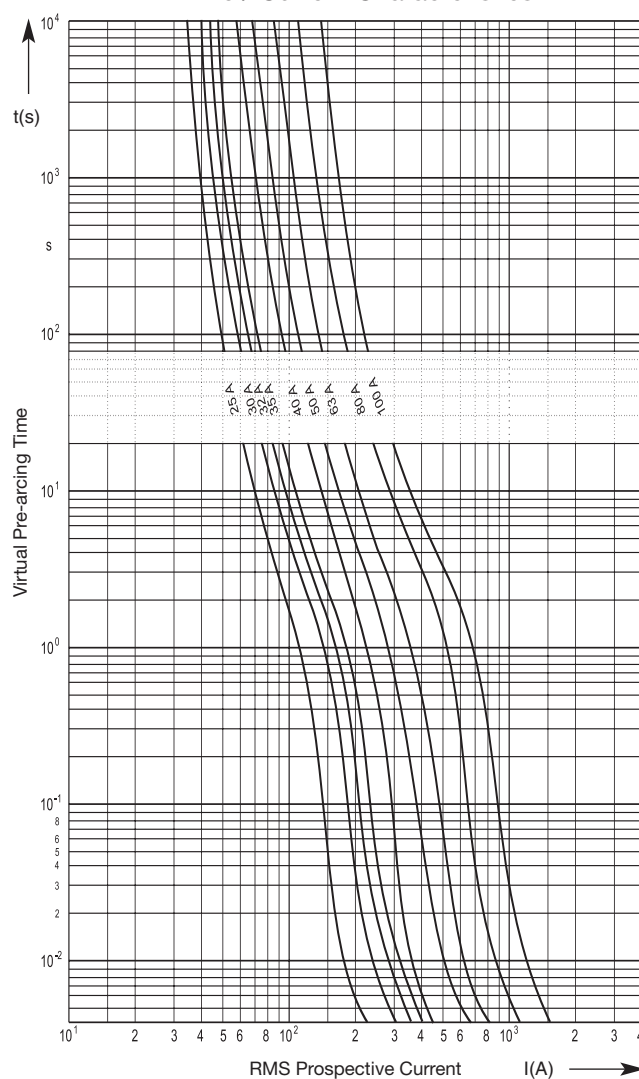
Rated breaking capacity
100 kA

Rated current	Part No.	Power loss W	Pre-arcing I ² t-value A ² s	Total I ² t-value @ 690 V A ² s
25 A	50 140 34	3.6	100	800
30 A	50 140 34	4.6	190	1,500
32 A	50 140 34	4.8	250	2,000
35 A	50 140 34	5.0	370	3,000
40 A	50 140 34	5.2	420	3,400
50 A	50 140 34	5.4	870	7,000
63 A	50 140 34	6.8	1,300	10,500
80 A	50 140 34	7.5	2,500	20,000
100 A	50 140 34	7.7	4,600	37,000

Cut-off-characteristics



Time / Current Characteristics



Size
27 x 60 mm

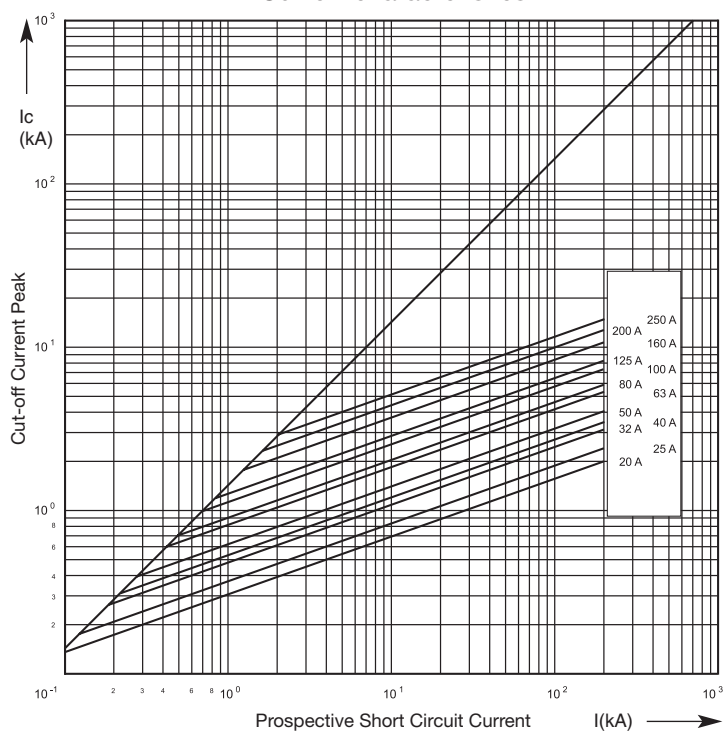
 Rated voltage
AC 660 V

 Operating class
aR

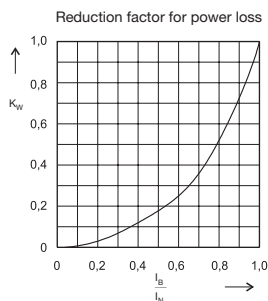
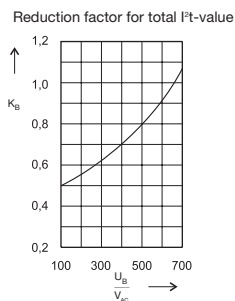
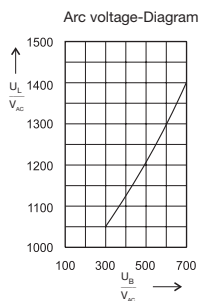
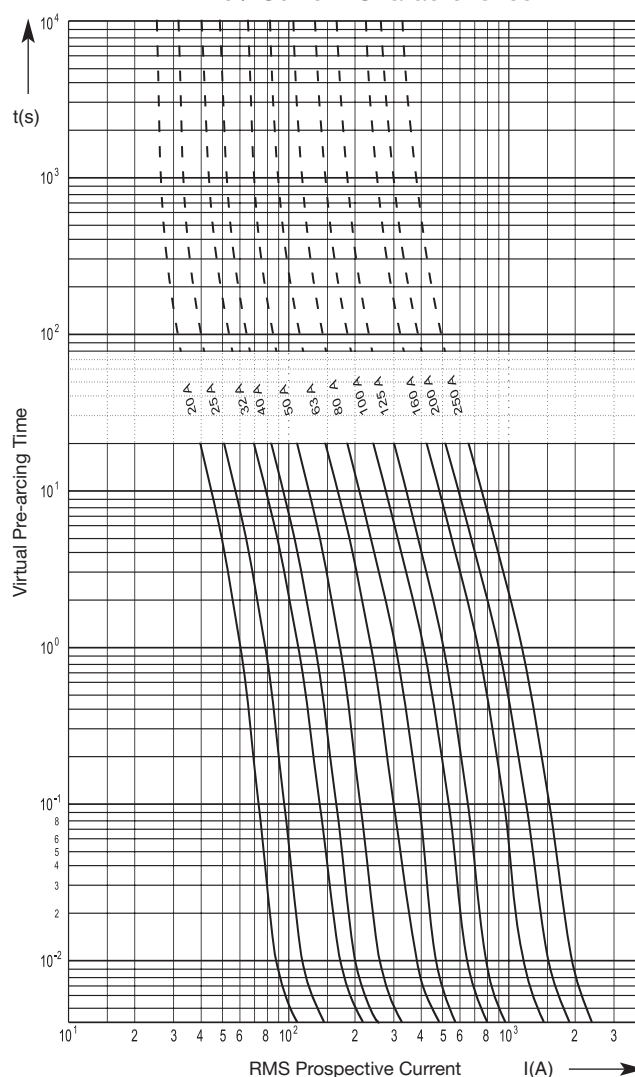
 Rated breaking capacity
200 kA

Rated current	Part No.	Part No. with striker pin	Power loss W	Pre-arcing I ² t-value A ² s	Total I ² t-value @ 660 V A ² s
20 A	50 193 20	50 194 20	8	17	100
25 A	50 193 20	50 194 20	9	30	180
32 A	50 193 20	50 194 20	10	67	400
40 A	50 193 20	50 194 20	13	90	550
50 A	50 193 20	50 194 20	15	150	900
63 A	50 193 20	50 194 20	16	330	2,000
80 A	50 193 20	50 194 20	22	472	2,900
100 A	50 193 20	50 194 20	25	850	5,400
125 A	50 193 20	50 194 20	30	1,310	7,900
160 A	50 193 20	50 194 20	32	2,950	17,700
200 A	50 193 20	50 194 20	37	5,000	30,000
250 A	50 193 20	50 194 20	43	8,100	49,000

Cut-off-characteristics



Time / Current Characteristics



Size
27 x 60 mm

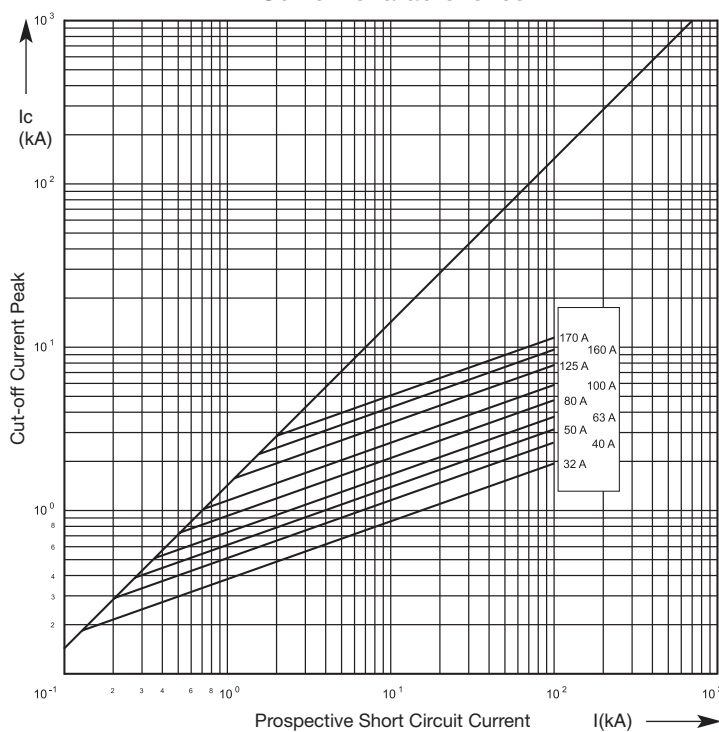
Rated voltage
AC 1000 V

Operating class
aR

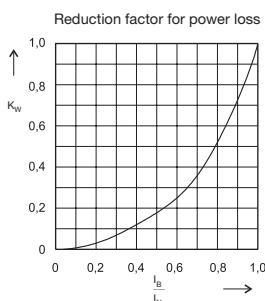
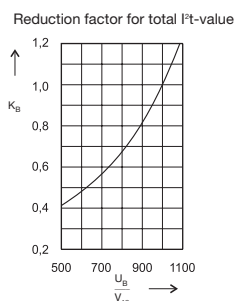
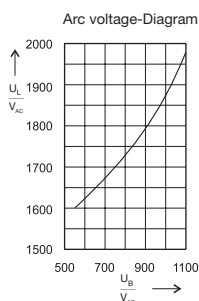
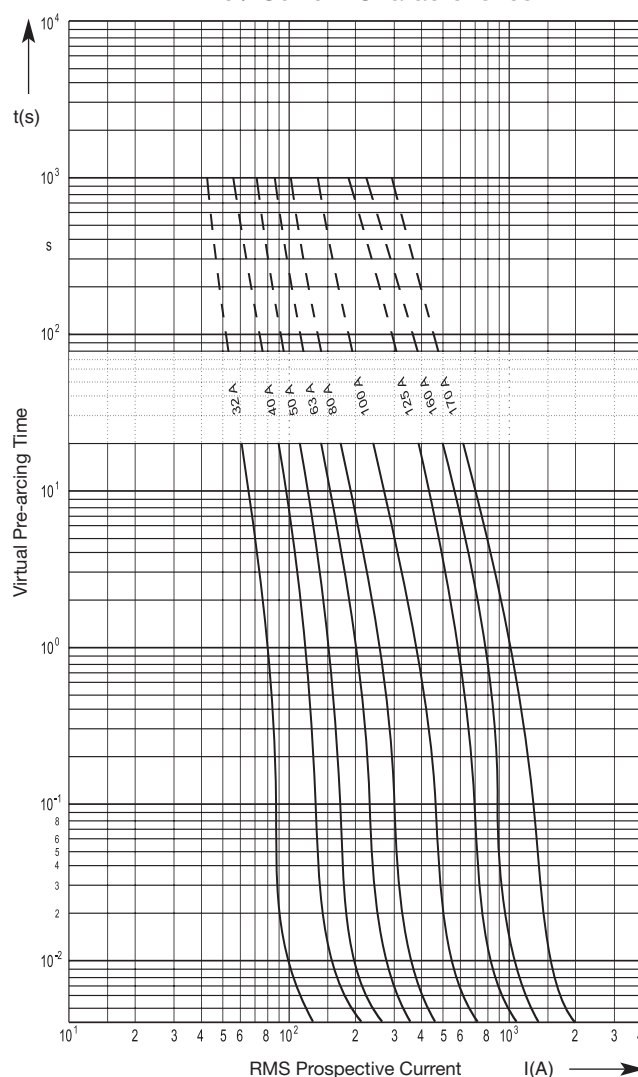
Rated breaking capacity
100 kA

Rated current	Part No.	Part No. with striker pin	Power loss W	Pre-arcing I ² t-value A ² s	Total I ² t-value @ 1000 V A ² s
32 A	50 196 20	50 197 20	17	32	210
40 A	50 196 20	50 197 20	17	82	530
50 A	50 196 20	50 197 20	20	141	920
63 A	50 196 20	50 197 20	22	250	1,630
80 A	50 196 20	50 197 20	24	512	3,330
100 A	50 196 20	50 197 20	26	1,000	6,500
125 A	50 196 20	50 197 20	26	2,260	14,700
160 A	50 196 20	50 197 20	34	4,600	30,000
170 A	50 196 20	50 197 20	30	7,790	50,600

Cut-off-characteristics



Time / Current Characteristics



Size
27 x 60 mm

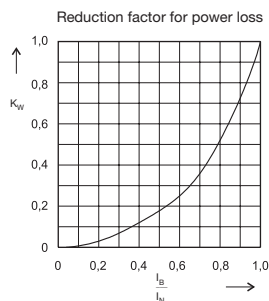
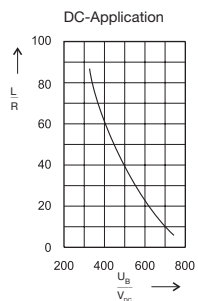
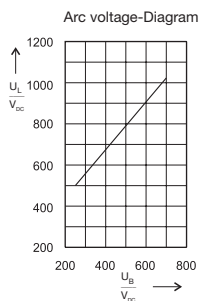
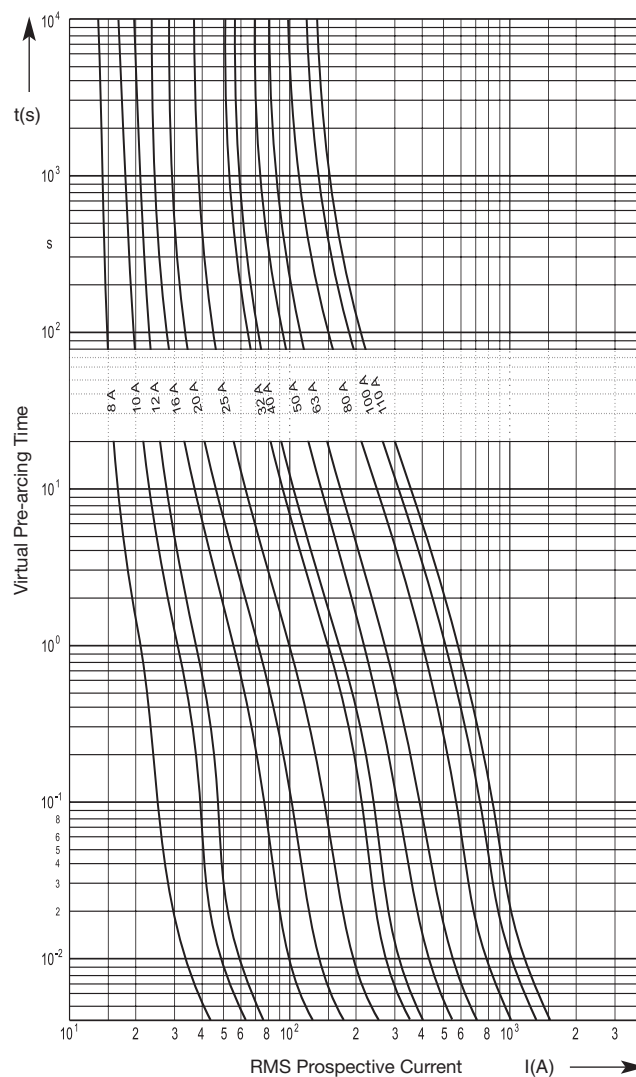
 Rated voltage
DC 660 V

 Operating class
gR

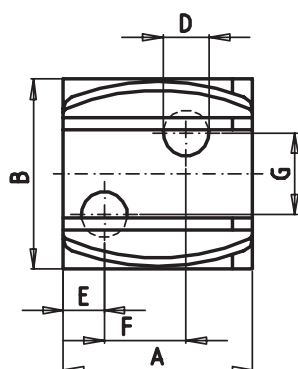
 Rated breaking capacity
50 kA

Rated current	Part No.	Power loss W	Pre-arcing I ² t-value A ² s	Total I ² t-value @ 600 V A ² s	
8 A	50 190 06	2.0	4	20	
10 A	50 190 06	2.2	8	40	
12 A	50 190 06	2.7	12	60	
16 A	50 190 06	3.1	32	160	
20 A	50 190 06	3.5	62	310	
25 A	50 190 06	3.9	130	650	
32 A	50 190 06	4.6	250	1,250	
40 A	50 190 06	6.6	420	2,100	
50 A	50 190 06	7.5	620	3,100	
63 A	50 190 06	8.9	1,200	6,000	
80 A	50 190 06	10.9	2,100	10,500	
100 A	50 190 06	13.5	3,500	17,500	
110 A	50 190 06	14.2	4,600	23,000	

Time / Current Characteristics



Fuse-clip



Power acceptance
4 W
61 017 01.2
size 10

A 0.50" (13 mm)
B 0.55" (14 mm)
C 0.70" (18 mm)
D 0.17" (4.2 mm)
E 0.20" (5 mm)

Power acceptance
6 W
61 001 01.2
size 14

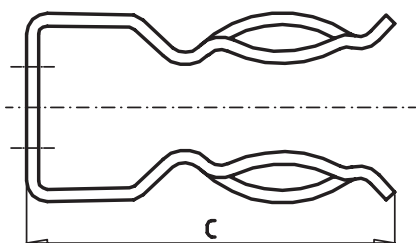
A 0.63" (16 mm)
B 0.63" (16 mm)
C 0.90" (23 mm)
D 0.17" (4.2 mm)
E 0.26" (6.5 mm)

Power acceptance
12 W
61 002 01.3
size 22

A 0.75" (19 mm)
B 1.06" (27 mm)
C 1.50" (38 mm)
D 0.18" (4.5 mm)
E 0.16" (4 mm)
F 0.30" (8 mm)
G 0.30" (8 mm)

Power acceptance
12 W
61 004 01.3
size 27

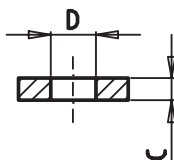
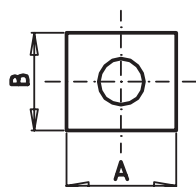
A 1.06" (27 mm)
B 2.30" (58.4 mm)
C 4.55" (115.6 mm)



Clamping plate

Part No.
63 017 01

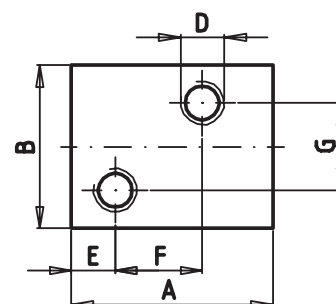
A 0.40" (10 mm)
B 0.35" (9 mm)
C 0.08" (2 mm)
D 0.17" (4.2 mm)



To use with fuse clips 61 017 01.2

Part No.
63 002 01

A 0.73" (18.5 mm)
B 0.60" (15 mm)
C 0.12" (3 mm)
D M4
E 0.16" (4 mm)
F 0.30" (8 mm)
G 0.30" (8 mm)

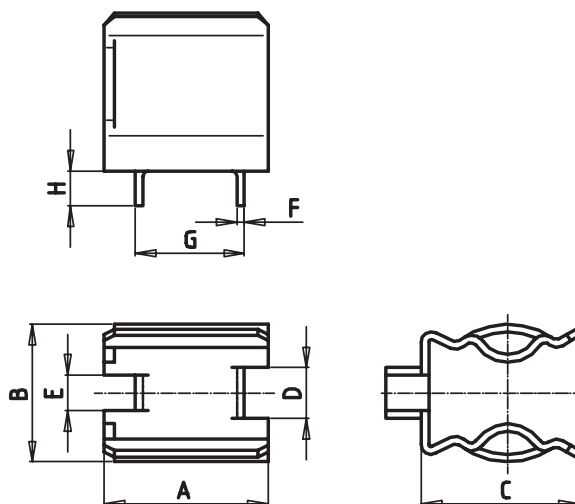


To use with fuse clips 61 002 01.3

Fuse-clip

Power acceptance
6 W
58 058 06
size 14

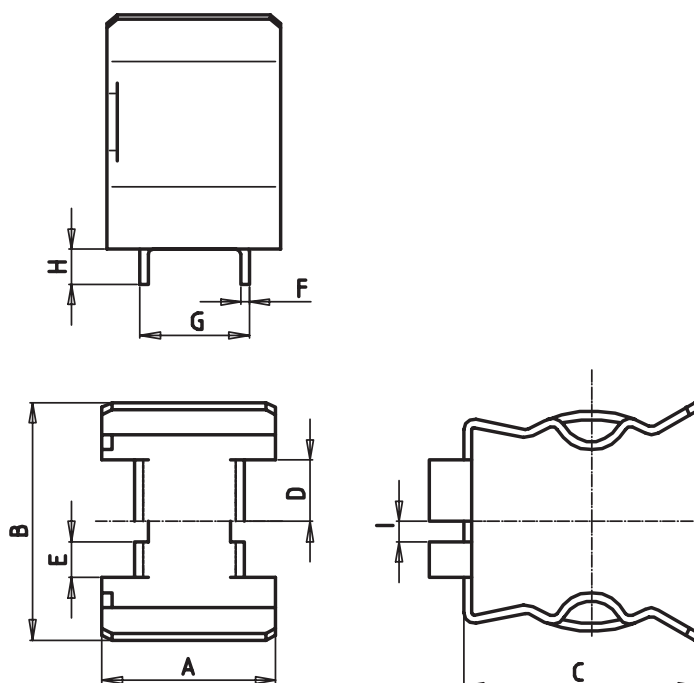
A	0.63" (16 mm)
B	0.55" (14 mm)
C	0.60" (15.5 mm)
D	0.20" (5 mm)
E	0.14" (3.5 mm)
F	0.03" (0.75 mm)
G	0.42" (10.7 mm)
H	0.14" (3.5 mm)



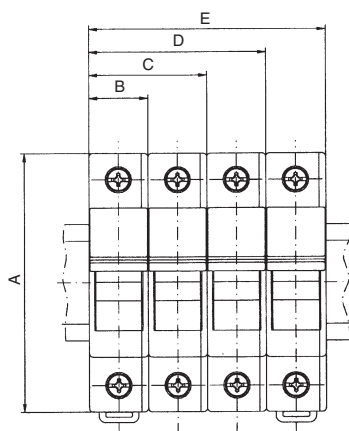
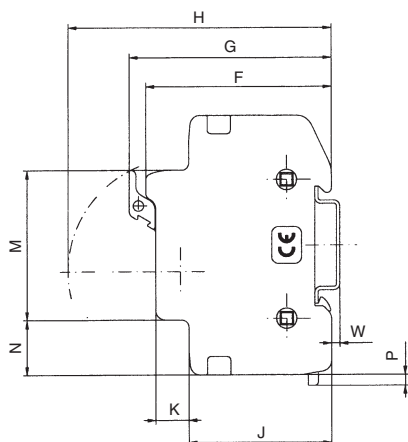
Fuse-clip

Power acceptance
12 W
58 060 06
size 22

A	0.67" (17 mm)
B	0.87" (22 mm)
C	0.90" (23 mm)
D	0.24" (6 mm)
E	0.14" (3.5 mm)
F	0.03" (0.75 mm)
G	0.42" (10.7 mm)
H	0.14" (3.5 mm)



ZS-Modul isolated fuse base for fuse links with cylindrical contact caps



Size 10 x 38

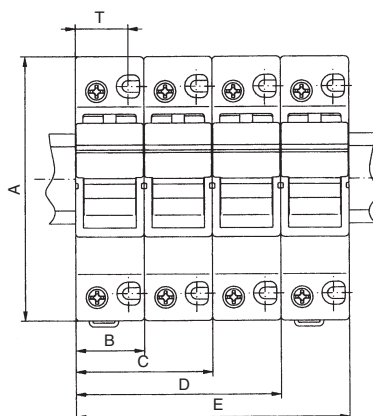
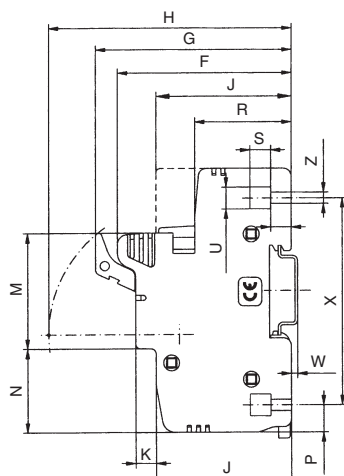
Part No.	51 063 04.DC for 1000 V DC	
	51 063 04	51 063 04.L 1 pol.
	51 063 04.2	51 063 04.2L 2 pol.
	51 063 04.3	51 063 04.3L 3 pol.



L= Diode indicator

Power acceptance: **4 W**

A	3.07" (78 mm)	H	3.13" (79.5 mm)
B	0.70" (17.8 mm)	J	1.69" (43 mm)
C	1.40" (35.6 mm)	K	0.40" (10 mm)
D	2.10" (53.4 mm)	M	1.77" (45 mm)
E	2.80" (71.2 mm)	N	0.65" (16.5 mm)
F	2.20" (56 mm)	P	0.13" (3.2 mm)
G	2.40" (61 mm)	W	0.10" (2.5 mm)



Size 14 x 51

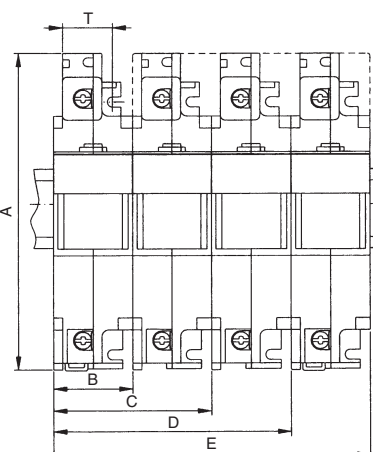
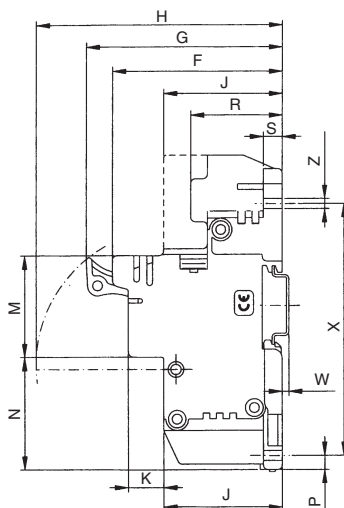
Part No.	51 058 04	51 058 04.S 1 pol.
	51 058 04.2	51 058 04.2S 2 pol.
	51 058 04.3	51 058 04.3S 3 pol.



S= Microswitch

Power acceptance: **6 W**

A	4.04" (102.5 mm)	M	1.77" (45 mm)
B	1.04" (26.5 mm)	N	1.28" (32.5 mm)
C	2.10" (53 mm)	P	0.40" (10.5 mm)
D	3.13" (79.5 mm)	R	1.48" (37.5 mm)
E	4.17" (106 mm)	S	0.30" (8 mm)
F	2.66" (67.5 mm)	T	0.80" (20.5 mm)
G	3.00" (76 mm)	U Ø	0.33" (8.5 mm)
H	3.70" (94.2 mm)	W	0.1" (2.5 mm)
J	2.07" (52.5 mm)	X	3.17" (80.5 mm)
K	0.30" (8 mm)	Z Ø	0.17" (4.4 mm)



Size 22 x 58

Part No.	51 060 04	51 063 04.S 1 pol.
	51 060 04.2	51 063 04.2S 2 pol.
	51 060 04.3	51 063 04.3S 3 pol.



S= Microswitch

Power acceptance: **12 W**

A	5.50" (140 mm)	M	1.77" (45 mm)
B	1.40" (35.6 mm)	N	2.00" (50.5 mm)
C	2.80" (71.2 mm)	P	0.30" (7.5 mm)
D	4.20" (106.8 mm)	R	1.57" (40 mm)
E	5.60" (142.4 mm)	S	0.30" (8 mm)
F	2.97" (75.5 mm)	T	1.06" (27 mm)
G	3.44" (87.5 mm)	W	0.10" (2.5 mm)
H	4.35" (110.5 mm)	X	4.30" (109.5 mm)
J	2.10" (53 mm)	Z Ø	0.17" (4.4 mm)
K	0.63" (16 mm)		

