

Fuses for Semiconductor Protection

Knife Blade Contact – German Standard



SIBA ultra-rapid knife blade contact fuses-type NH are available in many different sizes and four voltage ratings. They follow DIN/VDE - IEC standard and can be fitted in open fuse bases. Usage in fuse-bases or switches requires the comparison of the power loss of the fuse with the power acceptance of the base or switch.

All SIBA type NH-fuses are available with either integral blown fuse-indicator or a separately fitted trip indicator fuse for microswitch operation.

Classes: aR/gR

Sizes: 000 / 00 / 0 / 1 / 2 and 3

Voltage ratings: AC 500 V - 2000 V

Current ratings: 16 A up to 800 A

Features / Benefits

- ▶ High interrupting rating up to 120 kA
- ▶ Voltage rating AC 500 V - AC 2000 V
- ▶ Compliance with DIN 43620 and DIN 43653 standards
- ▶ Fuses with blown fuse combination indicator
- ▶ Class aR according to IEC 60269-4 and DIN VDE 0636-40 and Class gR according to DIN VDE 0636-40
- ▶ Fuse-bases / switches and accessories are available



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Knife Blade Contact – German Standard

Selection Guide

Size	Rated Voltage [V]	Indicator Type	Part No.	Selector Guide [Page]	Techn. Data [Page]
000	500	combi indicator	20 000 04	URM 4	URM 18
00	500	combi indicator	20 001 04	URM 4	URM 18
0	500	combi indicator	20 002 04	URM 5	URM 19
1	500	combi indicator	20 003 04	URM 6	URM 20
2	500	combi indicator	20 004 04	URM 7	URM 21
3	500	combi indicator	20 005 04	URM 8	URM 22
000	690	combi indicator	20 477 20	URM 9	URM 23
00	690	combi indicator	20 209 20	URM 9	URM 23
1	690	combi indicator	20 211 20	URM 10	URM 24
2	690	combi indicator	20 212 20	URM 10	URM 25
3	690	combi indicator	20 213 20	URM 11	URM 26
00	500	signal indicator	20 007 04	URM 12	URM 18
1	500	signal indicator	20 009 04	URM 12	URM 20
2	500	signal indicator	20 010 04	URM 13	URM 21
3	500	signal indicator	20 011 04	URM 13	URM 22
0	1 000	combi indicator	20 384 04	URM 14	URM 27
3	660	combi indicator	20 373 04	URM 15	URM 28
3	1 000	top indicator	20 407 04	URM 16	URM 29
3	2 000	top indicator	20 404 04	URM 17	URM 30



Fuses for Semiconductor Protection

Knife Blade Contact – German Standard

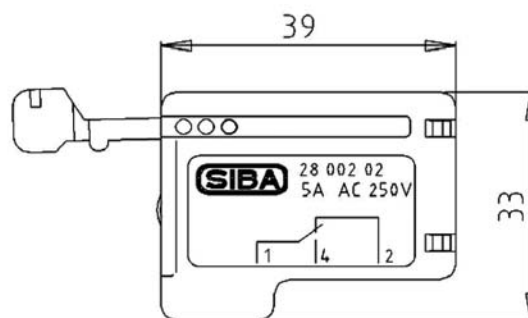
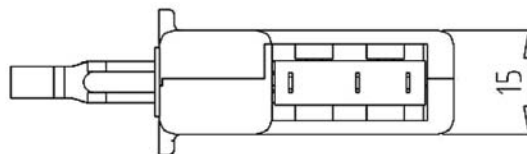
Fuse-Base

Size	Rated Voltage [V]	Part No.	With Integral External Micro Switch	Techn. Data [Page]
00	500/690	21 001 01	-	URM 31
00	500/690	21 001 03	-	URM 32
1	500/690	21 003 01	-	URM 32
2	500/690	21 004 01	-	URM 32
3	500/690	21 005 01	-	URM 32
1	500/690	21 003 03	-	URM 34
2	500/690	21 004 03	-	URM 34
00	500	21 007 01	yes	URM 35
1	500	21 009 01	yes	URM 35
2	500	21 010 01	yes	URM 35
3	500	21 011 01	yes	URM 35
0	1000	21 384 01		URM 35

Micro Switch

Rated Voltage
AC 250 V / DC 30 / 24 V

Size	Rated Voltage [V]	Part No.	Breaking Capacity non Inductive Load [A]	Breaking Capacity Inductive Load (L/R = 10 ms) [A]
00 - 3	250	28 002 02 (Red hammer)	5	3





Fuses for Semiconductor Protection

Knife Blade Contact – German Standard

Size
000

Rated Voltage
AC 500 V

Combi Indicator

Standard
DIN 43620

Rated Current [A]	Part No.	UL Rec.	Class	Weight [kg/1]	Pack
6	20 000 04.6		gR	0.11	3
10	20 000 04.10		gR	0.11	3
16	20 000 04.16		gR	0.11	3
20	20 000 04.20		gR	0.11	3
25	20 000 04.25		gR	0.11	3
32	20 000 04.32		gR	0.11	3
40	20 000 04.40		gR	0.11	3
50	20 000 04.50		gR	0.11	3
63	20 000 04.63		gR	0.11	3
80	20 000 04.80		gR	0.11	3

Size
00

Rated Voltage
AC 500 V

Combi Indicator

Standard
DIN 43620

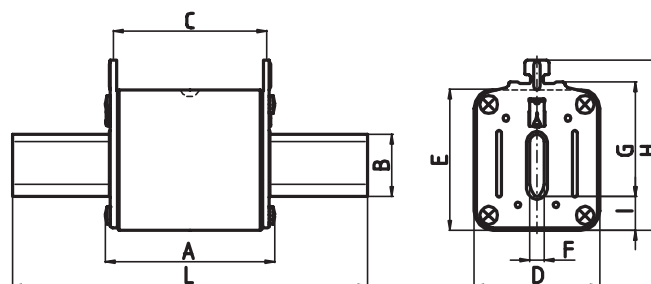
Rated Current [A]	Part No.	UL Rec.	Class	Weight [kg/1]	Pack
100	20 001 04.100		gR	0.15	3
125	20 001 04.125		aR	0.15	3
160	20 001 04.160		aR	0.15	3

Size **000**
20 000 04

Size **00**
20 001 04

A_{max} 2.13" (54 mm)
B 0.60" (15 mm)
C 1.85" (47 mm)
D 0.80" (20.5 mm)
E 1.60" (40.5 mm)
F 0.24" (6 mm)
G 1.38" (35 mm)
H 2.05" (52 mm)
I 0.28" (7 mm)
L 3.07" (78 mm)

A_{max} 2.13" (54 mm)
B 0.60" (15 mm)
C 1.85" (47 mm)
D 1.16" (29.5 mm)
E 1.80" (46 mm)
F 0.24" (6 mm)
G 1.38" (35 mm)
H 2.28" (58 mm)
I 0.50" (13 mm)
L 3.07" (78 mm)





Fuses for Semiconductor Protection

Knife Blade Contact – German Standard

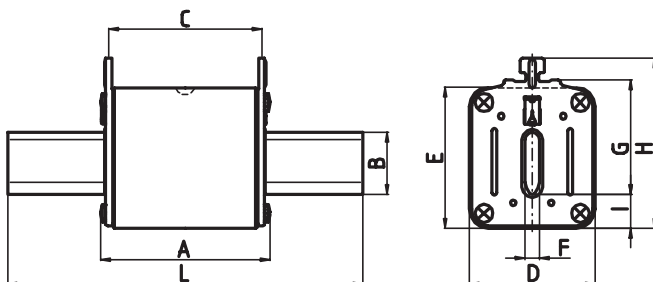
Size
0

Rated Voltage
AC 500 V

Combi Indicator

Standard
DIN 43620

Rated Current [A]	Part No.	UL Rec.	Class	Weight [kg/1]	Pack	
16	20 002 04.16		gR	0.24	3	
20	20 002 04.20		gR	0.24	3	
25	20 002 04.25		gR	0.24	3	
32	20 002 04.32		gR	0.24	3	
40	20 002 04.40		gR	0.24	3	
50	20 002 04.50		gR	0.24	3	
63	20 002 04.63		gR	0.24	3	
80	20 002 04.80		gR	0.24	3	
100	20 002 04.100		gR	0.24	3	
125	20 002 04.125		aR	0.24	3	
160	20 002 04.160		aR	0.24	3	



Size **0**
20 002 04

A_{max}	2.80" (71.5 mm)
B	0.60" (15 mm)
C	2.56" (65 mm)
D	1.16" (29.5 mm)
E	1.80" (46 mm)
F	0.24" (6 mm)
G	1.38" (35 mm)
H	2.28" (58 mm)
I	0.50" (13 mm)
L	4.92" (125 mm)



Fuses for Semiconductor Protection

Knife Blade Contact – German Standard

Size
1

Rated Voltage
AC 500 V

Combi Indicator

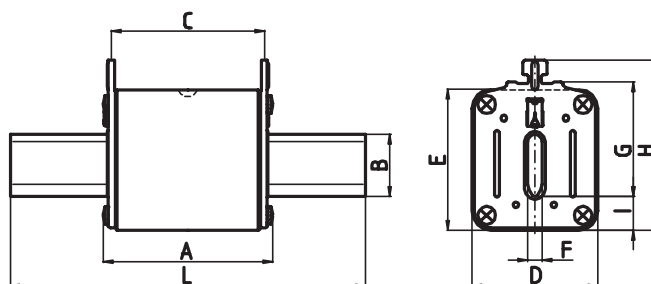
Standard
DIN 43620/1

Rated Current [A]	Part No.	UL Rec.	Class	Weight [kg/1]	Pack
63	20 003 04.63		gR	0.27	3
80	20 003 04.80		gR	0.27	3
100	20 003 04.100		gR	0.27	3
125	20 003 04.125		aR	0.27	3
160	20 003 04.160		aR	0.27	3
200	20 003 04.200		aR	0.37	3
250	20 003 04.250		aR	0.37	3
315	20 003 04.315		aR	0.37	3

Size 1
20 003 04
≤ 160 A

Size 1
20 003 04
≥ 200 A

A_{max}	2.95" (75 mm)	A_{max}	2.95" (75 mm)
B	0.80" (20 mm)	B	0.80" (20 mm)
C	2.56" (65 mm)	C	2.56" (65 mm)
D	1.16" (29.5 mm)	D	1.65" (42 mm)
E	1.80" (46 mm)	E	2.03" (51.5 mm)
F	0.24" (6 mm)	F	0.24" (6 mm)
G	1.57" (40 mm)	G	1.57" (40 mm)
H	2.28" (58 mm)	H	2.52" (64 mm)
I	0.30" (8 mm)	I	0.55" (14 mm)
L	5.30" (135 mm)	L	5.30" (135 mm)





Fuses for Semiconductor Protection

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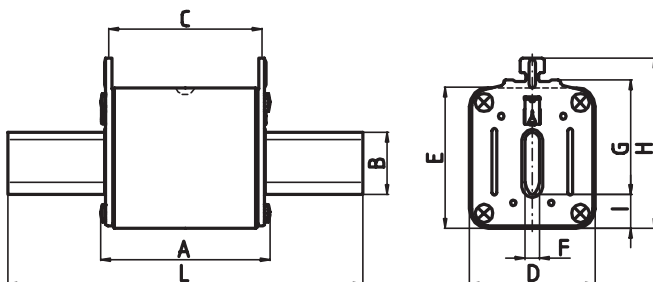
Size
2

Rated Voltage
AC 500 V

Combi Indicator

Standard
DIN 43620/1

Rated Current [A]	Part No.	UL Rec.	Class	Weight [kg/1]	Pack	
32	20 004 04.32		gR	0.37	3	
40	20 004 04.40		gR	0.37	3	
50	20 004 04.50		gR	0.37	3	
63	20 004 04.63		gR	0.37	3	
80	20 004 04.80		gR	0.37	3	
100	20 004 04.100		gR	0.37	3	
125	20 004 04.125		aR	0.37	3	
160	20 004 04.160		aR	0.37	3	
200	20 004 04.200		aR	0.37	3	
250	20 004 04.250		aR	0.37	3	
315	20 004 04.315		aR	0.65	3	
355	20 004 04.355		aR	0.65	3	
400	20 004 04.400		aR	0.65	3	



Size 2
20 004 04
≤ 250 A

Size 2
20 004 04
≥ 315 A

A_{max} 2.95" (75 mm)
B 0.80" (20 mm)
C 2.56" (65 mm)
D 1.65" (42 mm)
E 2.03" (51.5 mm)
F 0.24" (6 mm)
G 1.90" (48 mm)
H 2.83" (72 mm)
I 0.55" (14 mm)
L 5.90" (150 mm)

A_{max} 2.95" (75 mm)
B 1.02" (26 mm)
C 2.56" (65 mm)
D 2.10" (53 mm)
E 2.32" (59 mm)
F 0.24" (6 mm)
G 1.90" (48 mm)
H 2.83" (72 mm)
I 0.55" (14 mm)
L 5.90" (150 mm)



Fuses for Semiconductor Protection

Knife Blade Contact – German Standard

Size
3

Rated Voltage
AC 500 V

Combi Indicator

Standard
DIN 43620/1

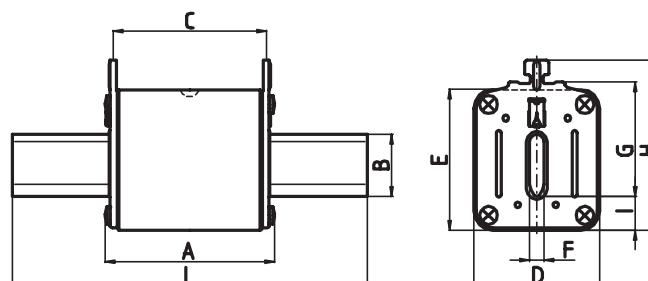
Rated Current [A]	Part No.	UL Rec.	Class	Weight [kg/1]	Pack
160	20 005 04.160		aR	0.65	3
200	20 005 04.200		aR	0.65	3
224	20 005 04.224		aR	0.65	3
250	20 005 04.250		aR	0.65	3
315	20 005 04.315		aR	0.65	3
400	20 005 04.400		aR	0.65	3
500	20 005 04.500		aR	0.88	3
630	20 005 04.630		aR	0.88	3

Size 3
20 005 04
≤ 400 A

Size 3
20 005 04
≥ 500 A

A _{max}	2.95" (75 mm)
B	1.02" (26 mm)
C	2.56" (65 mm)
D	2.10" (53 mm)
E	2.32" (59 mm)
F	0.24" (6 mm)
G	2.36" (60 mm)
H	3.27" (83 mm)
I	0.55" (14 mm)
L	5.90" (150 mm)

A _{max}	2.95" (75 mm)
B	1.26" (32 mm)
C	2.56" (65 mm)
D	2.56" (65 mm)
E	2.90" (73.5 mm)
F	0.24" (6 mm)
G	2.36" (60 mm)
H	3.40" (86 mm)
I	0.67" (17 mm)
L	5.90" (150 mm)





Fuses for Semiconductor Protection

Knife Blade Contact – German Standard

Size
000

Rated Voltage
AC 690 V

Combi Indicator

Standard
DIN 43620/1

Rated Current [A]	Part No.	UL Rec.	Class	Weight [kg/1]	Pack	
10	20 477 20.10		gR	0.11	3	
16	20 477 20.16		gR	0.11	3	
20	20 477 20.20		gR	0.11	3	
25	20 477 20.25		gR	0.11	3	
32	20 477 20.32		gR	0.11	3	
40	20 477 20.40		gR	0.11	3	
50	20 477 20.50		gR	0.11	3	

Size
00

Rated Voltage
AC 690 V

Combi Indicator

Standard
DIN 43620/1

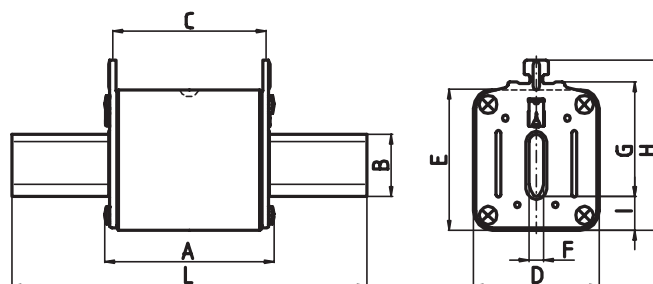
Rated Current [A]	Part No.	UL Rec.	Class	Weight [kg/1]	Pack	
63	20 209 20.63		gR	0.15	3	
80	20 209 20.80		gR	0.15	3	
100	20 209 20.100		gR	0.15	3	
125	20 209 20.125		aR	0.15	3	
160	20 209 20.160		aR	0.15	3	

Size **000**
20 477 20

Size **00**
20 209 20

A_{max}	2.13" (54 mm)
B	0.60" (15 mm)
C	1.85" (47 mm)
D	0.80" (20.5 mm)
E	1.60" (40.5 mm)
F	0.24" (6 mm)
G	1.38" (35 mm)
H	2.05" (52 mm)
I	0.28" (7 mm)
L	3.07" (78 mm)

A_{max}	2.13" (54 mm)
B	0.60" (15 mm)
C	1.85" (47 mm)
D	1.16" (29.5 mm)
E	1.80" (46 mm)
F	0.24" (6 mm)
G	1.38" (35 mm)
H	2.28" (58 mm)
I	0.50" (13 mm)
L	3.07" (78 mm)





Fuses for Semiconductor Protection

Knife Blade Contact – German Standard

Size
1

Rated Voltage
AC 690 V

Combi Indicator

Standard
DIN 43620/1

Rated Current [A]	Part No.	UL Rec.	Class	Weight [kg/1]	Pack
16	20 211 20.16		gR	0.37	3
20	20 211 20.20		gR	0.37	3
25	20 211 20.25		gR	0.37	3
32	20 211 20.32		gR	0.37	3
40	20 211 20.40		gR	0.37	3
50	20 211 20.50		gR	0.37	3
63	20 211 20.63		gR	0.37	3
80	20 211 20.80		gR	0.37	3
100	20 211 20.100		gR	0.37	3
125	20 211 20.125		aR	0.37	3
160	20 211 20.160		aR	0.37	3
200	20 211 20.200		aR	0.37	3
250	20 211 20.250		aR	0.37	3
315	20 211 20.315		aR	0.37	3

Size
2

Rated Voltage
AC 690 V

Combi Indicator

Standard
DIN 43620/1

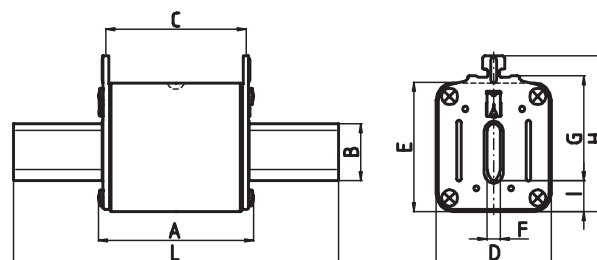
Rated Current [A]	Part No.	UL Rec.	Class	Weight [kg/1]	Pack
160	20 212 20.160		aR	0.37	3
200	20 212 20.200		aR	0.37	3
250	20 212 20.250		aR	0.37	3
315	20 212 20.315		aR	0.65	3
350	20 212 20.350		aR	0.65	3
400	20 212 20.400		aR	0.65	3
450	20 212 20.450		aR	0.65	3

Size 1
20 211 20

Size 2
20 212 20
≥ 250 A

Size 2
20 212 20
≥ 315 A

A_{max} 2.95" (75 mm)	A_{max} 2.95" (75 mm)	A_{max} 2.95" (75 mm)
B 0.80" (20 mm)	B 0.80" (20 mm)	B 1.02" (26 mm)
C 2.56" (65 mm)	C 2.56" (65 mm)	C 2.56" (65 mm)
D 1.65" (42 mm)	D 1.65" (42 mm)	D 2.10" (53 mm)
E 2.03" (51.5 mm)	E 2.03" (51.5 mm)	E 2.32" (59 mm)
F 0.24" (6 mm)	F 0.24" (6 mm)	F 0.24" (6 mm)
G 1.57" (40 mm)	G 1.90" (48 mm)	G 1.90" (48 mm)
H 2.52" (64 mm)	H 2.83" (72 mm)	H 2.83" (72 mm)
I 0.55" (14 mm)	I 0.55" (14 mm)	I 0.55" (14 mm)
L 5.30" (135 mm)	L 5.90" (150 mm)	L 5.90" (150 mm)





Fuses for Semiconductor Protection

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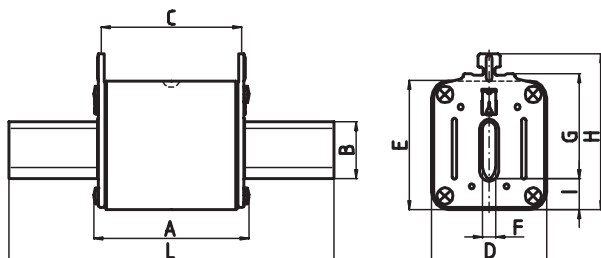
Size
3

Rated Voltage
AC 690 V

Combi Indicator

Standard
DIN 43620/1

Rated Current [A]	Part No.	UL Rec.	Class	Weight [kg/1]	Pack	
315	20 213 20.315		aR	0.65	3	
355	20 213 20.355		aR	0.65	3	
400	20 213 20.400		aR	0.65	3	
450	20 213 20.450		aR	0.88	3	
500	20 213 20.500		aR	0.88	3	
550	20 213 20.550		aR	0.88	3	
630	20 213 20.630		aR	0.88	3	
710	20 213 20.710		aR	0.88	3	



Size 3
20 213 20
≤ 400 A

Size 3
20 213 20
≥ 450 A

A_{max} 2.95" (75 mm)
B 1.02" (26 mm)
C 2.56" (65 mm)
D 2.10" (53 mm)
E 2.32" (59 mm)
F 0.24" (6 mm)
G 2.36" (60 mm)
H 3.27" (83 mm)
I 0.55" (14 mm)
L 5.90" (150 mm)

A_{max} 2.95" (75 mm)
B 1.26" (32 mm)
C 2.56" (65 mm)
D 2.56" (65 mm)
E 2.90" (73.5 mm)
F 0.24" (6 mm)
G 2.36" (60 mm)
H 3.40" (86 mm)
I 0.67" (17 mm)
L 5.90" (150 mm)



Fuses for Semiconductor Protection

Knife Blade Contact – German Standard

Size
00

Rated Voltage
AC 500 V

With Integrated Signal Indicator

Standard
DIN 43620

Rated Current [A]	Part No.	UL Rec.	Class	Weight [kg/100]	Pack	
16	20 007 04.16		gR	0.19	3	
20	20 007 04.20		gR	0.19	3	
25	20 007 04.25		gR	0.19	3	
32	20 007 04.32		gR	0.19	3	
40	20 007 04.40		gR	0.19	3	
50	20 007 04.50		gR	0.19	3	
63	20 007 04.63		gR	0.19	3	
80	20 007 04.80		gR	0.19	3	
100	20 007 04.100		gR	0.19	3	
125	20 007 04.125		aR	0.19	3	
160	20 007 04.160		aR	0.19	3	

Size
1

Rated Voltage
AC 500 V

With Integrated Signal Indicator **DIN 43620/1**

Standard

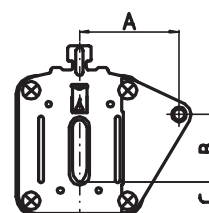
Rated Current [A]	Part No.	UL Rec.	Class	Weight [kg/1]	Pack	
63	20 009 04.63		gR	0.40	3	
80	20 009 04.80		gR	0.40	3	
100	20 009 04.100		gR	0.40	3	
125	20 009 04.125		aR	0.40	3	
160	20 009 04.160		aR	0.40	3	
200	20 009 04.200		aR	0.40	3	
250	20 009 04.250		aR	0.40	3	
315	20 009 04.315		aR	0.40	3	

Size **00**
20 007 04

Size **1**
20 009 04

A 0.90" (23 mm)
B 0.67" (17 mm)
C 0.50" (13 mm)

A 1.20" (30.5 mm)
B 0.94" (24 mm)
C 0.55" (14 mm)





Fuses for Semiconductor Protection

Knife Blade Contact – German Standard

Size
2

Rated Voltage
AC 500 V

Standard
With Integrated Signal Indicator DIN 43620/1

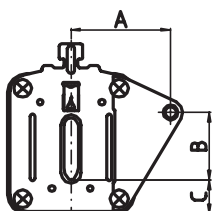
Rated Current [A]	Part No.	UL Rec.	Class	Weight [kg/1]	Pack	
32	20 010 04.32		gR	0.70	3	
40	20 010 04.40		gR	0.70	3	
50	20 010 04.50		gR	0.70	3	
63	20 010 04.63		gR	0.70	3	
80	20 010 04.80		gR	0.70	3	
100	20 010 04.100		gR	0.70	3	
125	20 010 04.125		aR	0.70	3	
160	20 010 04.160		aR	0.70	3	
200	20 010 04.200		aR	0.70	3	
250	20 010 04.250		aR	0.70	3	
315	20 010 04.315		aR	0.70	3	
355	20 010 04.355		aR	0.70	3	
400	20 010 04.400		aR	0.70	3	

Size
3

Rated Voltage
AC 500 V

Standard
With Integrated Signal Indicator DIN 43620/1

Rated Current [A]	Part No.	UL Rec.	Class	Weight [kg/1]	Pack	
160	20 011 04.160		aR	0.90	3	
200	20 011 04.200		aR	0.90	3	
224	20 011 04.224		aR	0.90	3	
250	20 011 04.250		aR	0.90	3	
400	20 011 04.400		aR	0.90	3	
500	20 011 04.500		aR	0.90	3	
630	20 011 04.630		aR	0.90	3	



Size 2
20 010 04

A	1.73" (44 mm)
B	1.52" (38.5 mm)
C	0.67" (17 mm)

Size 3
20 011 04

A	1.65" (42 mm)
B	1.10" (28 mm)
C	0.55" (14 mm)



Fuses for Semiconductor Protection

Knife Blade Contact – German Standard

Size
0

Rated Voltage
AC 1000 V

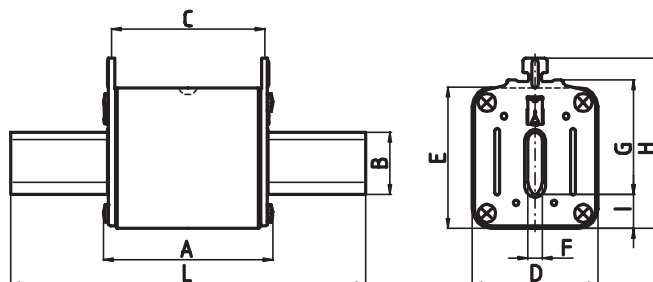
Combi Indicator

Standard
DIN 43620/1

Rated Current [A]	Part No.	UL Rec.	Class	Weight [kg/1]	Pack	
16	20 384 04.16		gR	0.24	6	
20	20 384 04.20		gR	0.24	6	
25	20 384 04.25		gR	0.24	6	
32	20 384 04.32		gR	0.24	6	
40	20 384 04.40		gR	0.24	6	
50	20 384 04.50		gR	0.24	6	
63	20 384 04.63		aR	0.24	6	
80	20 384 04.80		aR	0.24	6	
100	20 384 04.100		aR	0.24	6	
125	20 384 04.125		aR	0.24	6	
160	20 384 04.160		aR	0.24	6	

Size **0**
20 384 04

A_{max}	2.80" (71.5 mm)
B	0.60" (15 mm)
C	2.56" (65 mm)
D	1.16" (29.5 mm)
E	1.80" (46 mm)
F	0.24" (6 mm)
G	1.38" (35 mm)
H	2.28" (58 mm)
I	0.50" (13 mm)
L	4.92" (125 mm)





Fuses for Semiconductor Protection

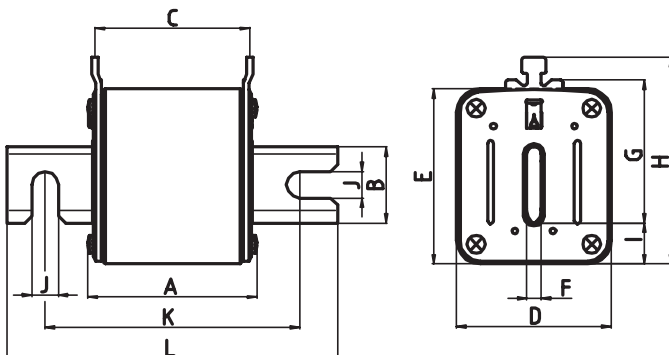
Knife Blade Contact – German Standard

Size
3

Rated Voltage
AC 660 V

Combi Indicator

Rated Current [A]	Part No.	UL Rec.	Class	Weight [kg/1]	Pack
150	20 373 04.150		gR	0.83	6
200	20 373 04.200		gR	0.83	6
250	20 373 04.250		gR	0.83	6
300	20 373 04.300		gR	0.83	6
350	20 373 04.350		gR	0.83	6
400	20 373 04.400		gR	0.83	6
500	20 373 04.500		gR	0.83	6



Size **3**
20 373 04

A_{max}	2.95" (75 mm)
B	1.26" (32 mm)
C	2.56" (65 mm)
D	2.56" (65 mm)
E	2.90" (73.5 mm)
F	0.24" (6 mm)
G	2.36" (60 mm)
H	3.40" (86 mm)
I	0.67" (17 mm)
J	0.43" (11 mm)
K	4.20" (107 mm)
L	5.47" (139 mm)



Fuses for Semiconductor Protection

Knife Blade Contact – German Standard

Size
3

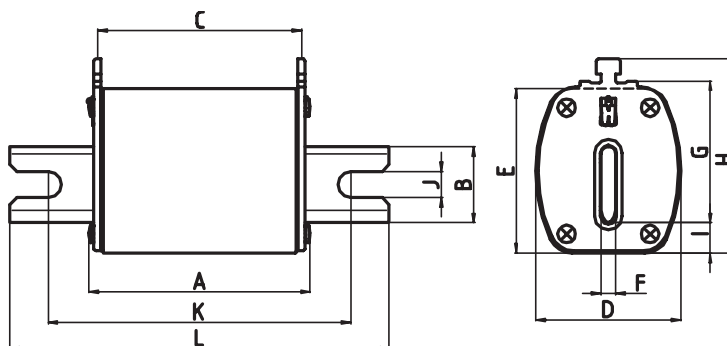
Rated Voltage
AC 1000 V

Top Indicator

Rated Current [A]	Part No.	UL Rec.	Class	Weight [kg/1]	Pack
100	20 407 04.100		aR	1.1	1
125	20 407 04.125		aR	1.1	1
160	20 407 04.160		aR	1.1	1
200	20 407 04.200		aR	1.1	1
250	20 407 04.250		aR	1.1	1
315	20 407 04.315		aR	1.1	1
355	20 407 04.355		aR	1.1	1
400	20 407 04.400		aR	1.1	1
450	20 407 04.450		aR	1.1	1
500	20 407 04.500		aR	1.1	1

Size 3
20 407 04

A _{max}	3.74" (95 mm)
B	1.26" (32 mm)
C	3.35" (85 mm)
D	2.40" (61 mm)
E	2.72" (69 mm)
F	0.24" (6 mm)
G	2.36" (60 mm)
H	3.20" (81.5 mm)
I	0.50" (13 mm)
J	0.43" (11 mm)
K	5.00" (127 mm)
L	6.30" (160 mm)





Fuses for Semiconductor Protection

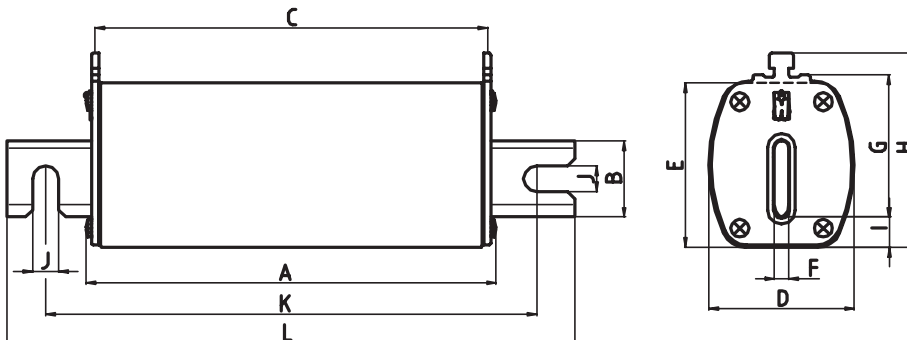
Knife Blade Contact – German Standard

Size
3

Rated Voltage
AC 2000 V

Top Indicator

Rated Current [A]	Part No.	UL Rec.	Class	Weight [kg/1]	Pack	
200	20 404 04.200		aR	1.7	1	
224	20 404 04.224		aR	1.7	1	
250	20 404 04.250		aR	1.7	1	
300	20 404 04.300		aR	1.7	1	
315	20 404 04.315		aR	1.7	1	
355	20 404 04.355		aR	1.7	1	
400	20 404 04.400		aR	1.7	1	
450	20 404 04.450		aR	1.7	1	



Size 3
20 404 04

A _{max}	7.10" (180 mm)
B	1.26" (32 mm)
C	6.50" (165 mm)
D	2.40" (61 mm)
E	2.72" (69 mm)
F	0.24" (6 mm)
G	2.36" (60 mm)
H	3.20" (81.5 mm)
I	0.50" (13 mm)
J	0.43" (11 mm)
K	8.20" (208 mm)
L	9.45" (240 mm)

Size
000/00

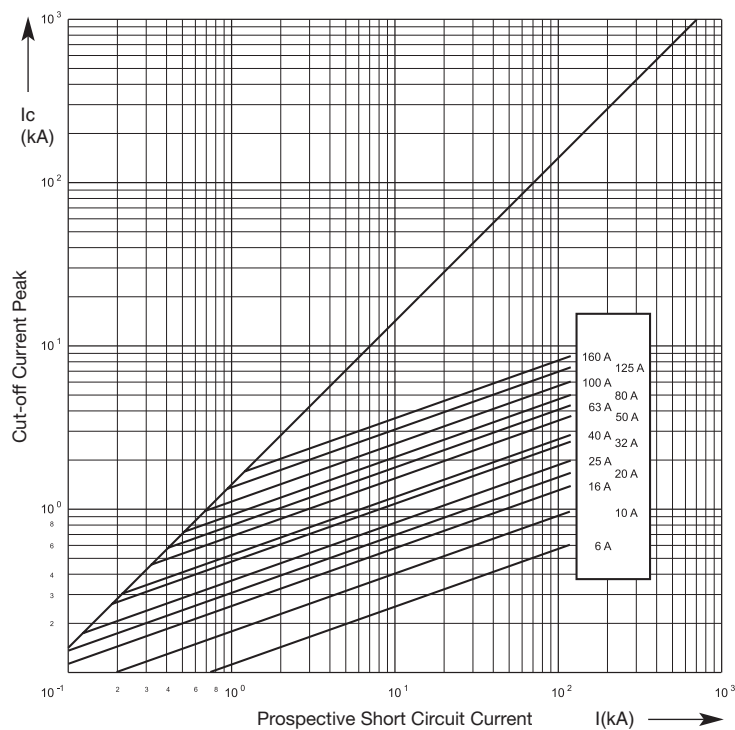
Rated Voltage
AC 500 V

Operating Class
≤ 100 A gR / > 100 A aR

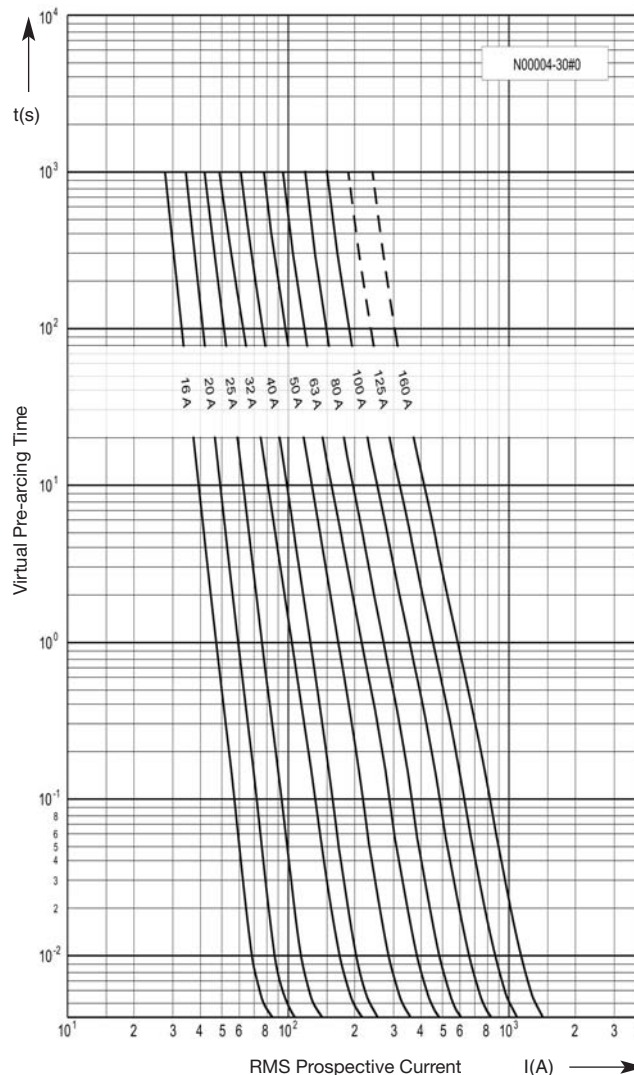
Rated Breaking Capacity
120 kA

Rated Current [A]	Part No. with Combi Indicator	Part No. with Signal Indicator	Power Loss [W]	Pre-arcing I ² t-value [A ² t]	Total I ² t-value @ 500 V [A ² t]
16	20 000 04.16	20 007 04.16	4.8	10	140
20	20 000 04.20	20 007 04.20	5.7	17	185
25	20 000 04.25	20 007 04.25	6.7	20	305
32	20 000 04.32	20 007 04.32	8.1	67	460
35	20 000 04.35	20 007 04.35	9	82	650
40	20 000 04.40	20 007 04.40	10	90	800
50	20 000 04.50	20 007 04.50	12	190	1 400
63	20 000 04.63	20 007 04.63	14	330	2 600
80	20 000 04.80	20 007 04.80	19	510	4 200
100	20 001 04.100	20 007 04.100	21	920	7 600
125	20 001 04.125	20 007 04.125	25	1 660	12 300
160	20 001 04.160	20 007 04.160	30	2 800	19 500

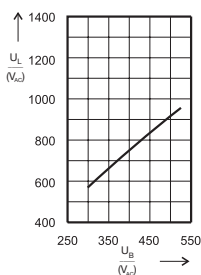
Cut-Off Characteristics



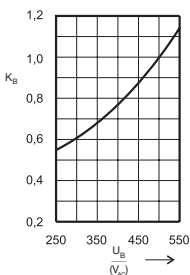
Time-Current Characteristics



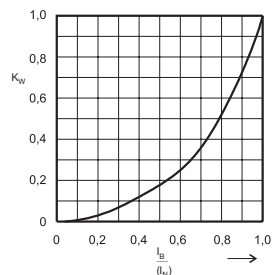
Arc voltage-Diagram



Reduction factor for total I²t-value



Reduction factor for power loss



Size
0

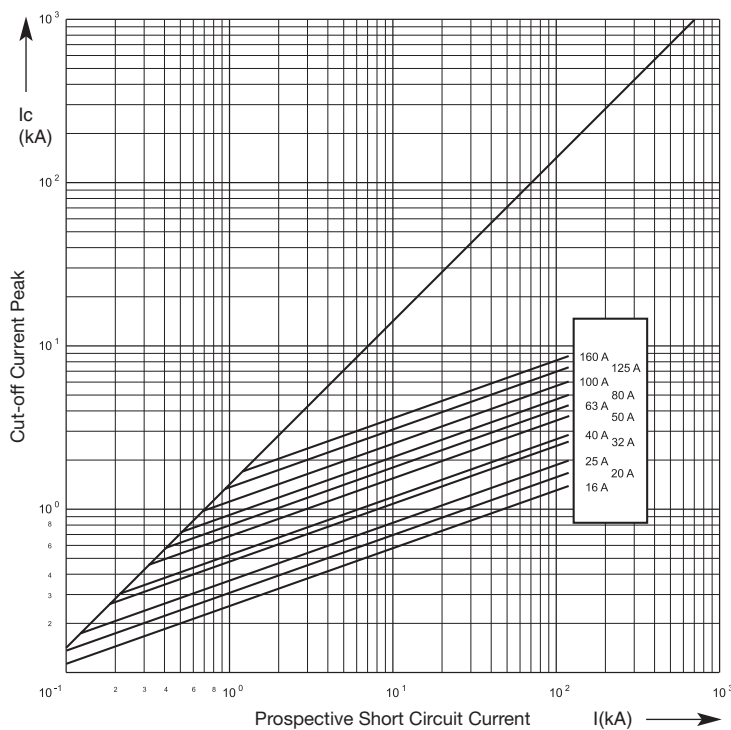
Rated Voltage
AC 500 V

Operating Class
≤ 100 A gR / > 100 A aR

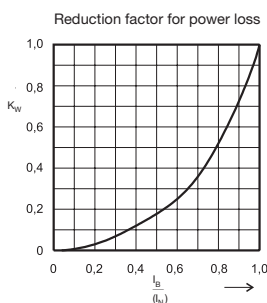
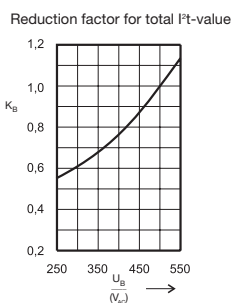
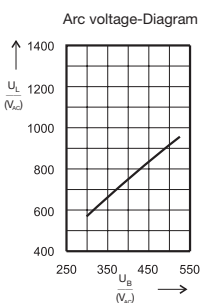
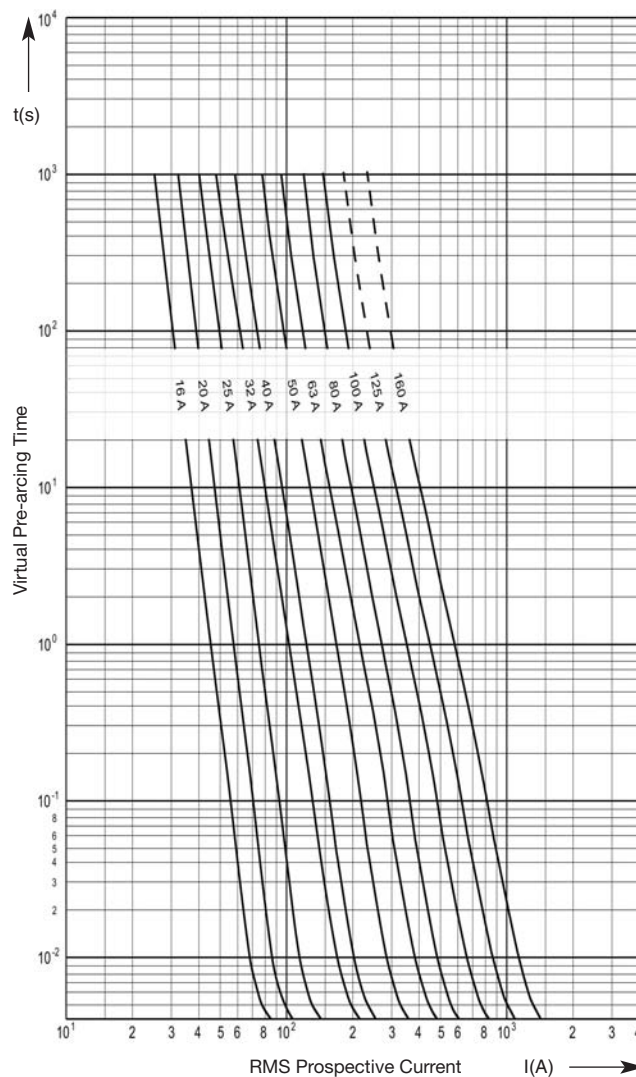
Rated Breaking Capacity
120 kA

Rated Current [A]	Part No. with Combi Indicator	Power Loss [W]	Pre-arcing I ² t-value [A ² t]	Total I ² t-value @ 500 V [A ² t]
16	20 002 04.16	6.1	10	140
20	20 002 04.20	7.2	17	185
25	20 002 04.25	8.6	20	305
32	20 002 04.32	10	67	460
35	20 002 04.35	11	82	650
40	20 002 04.40	12	90	800
50	20 002 04.50	15	190	1 400
63	20 002 04.63	18	330	2 600
80	20 002 04.80	21	510	4 200
100	20 002 04.100	25	920	7 600
125	20 002 04.125	30	1 660	12 300
160	20 002 04.160	36	2 800	19 500

Cut-Off Characteristics



Time-Current Characteristics



Size
1

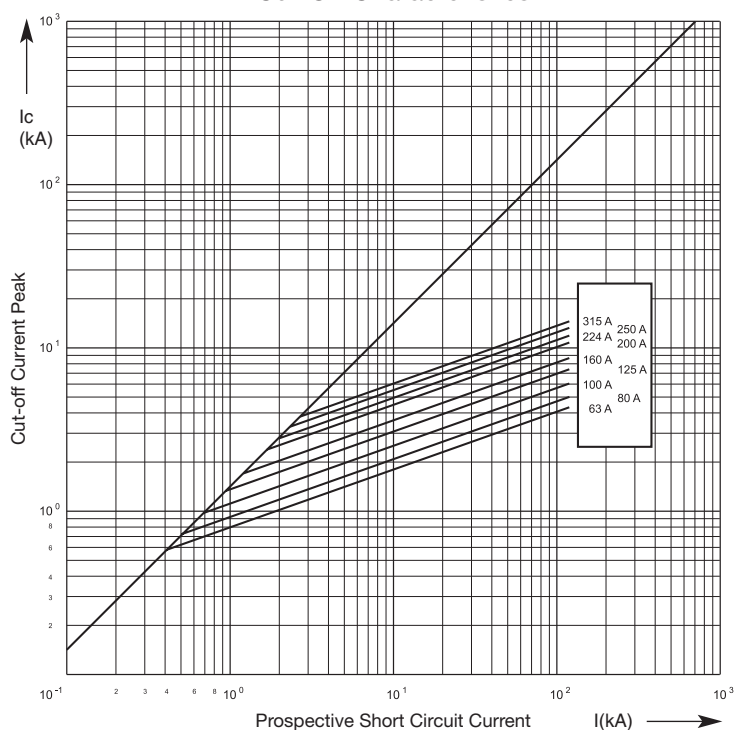
Rated Voltage
AC 500 V

Operating Class
≤ 100 A gR / > 100 A aR

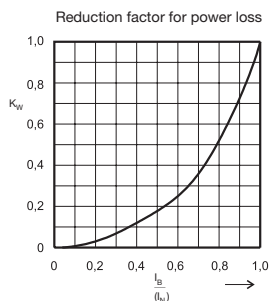
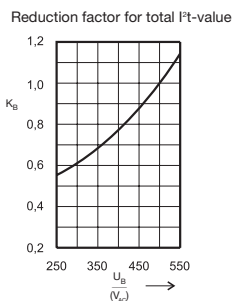
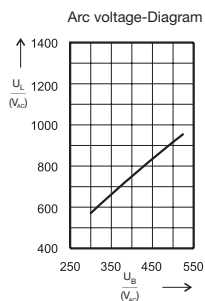
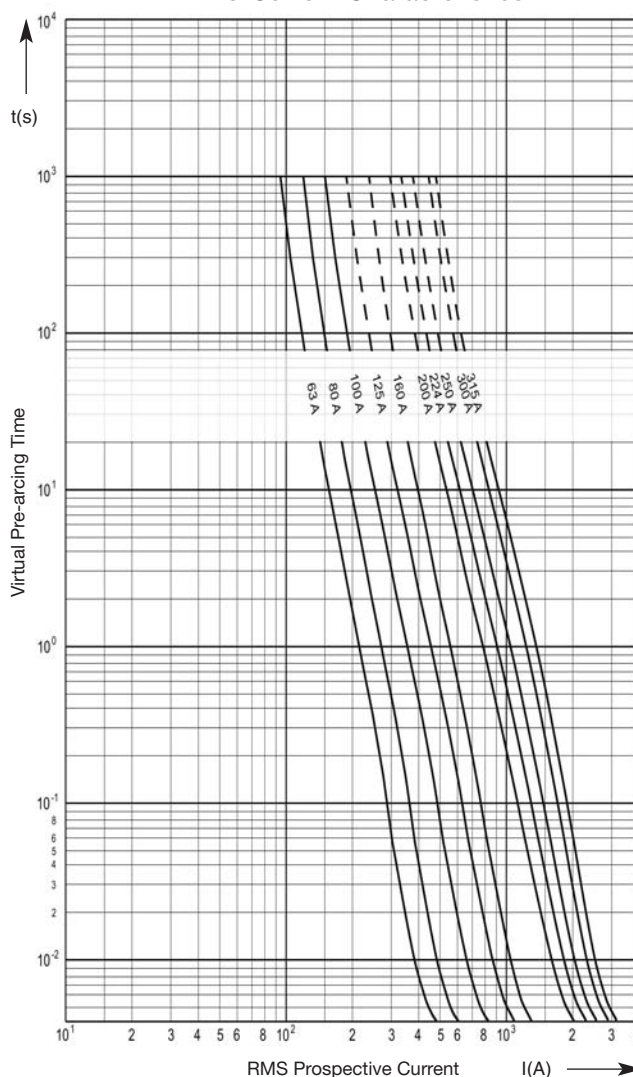
Rated Breaking Capacity
120 kA

Rated Current [A]	Part No. with Combi Indicator	Part No. with Signal Indicator	Power Loss [W]	Pre-arcing I ² t-value [A ² t]	Total I ² t-value @ 500 V [A ² t]
63	20 003 04.63	20 009 04.63	18	330	2 600
80	20 003 04.80	20 009 04.80	22	510	4 200
100	20 003 04.100	20 009 04.100	27	920	7 600
125	20 003 04.125	20 009 04.125	33	4 100	12 300
160	20 003 04.160	20 009 04.160	40	1 660	19 500
200	20 003 04.200	20 009 04.200	40	2 400	37 000
224	20 003 04.224	20 009 04.224	53	5 800	42 000
250	20 003 04.250	20 009 04.250	62	9 600	55 000
315	20 003 04.315	20 009 04.315	79	14 000	90 000

Cut-Off Characteristics



Time-Current Characteristics



Size
2

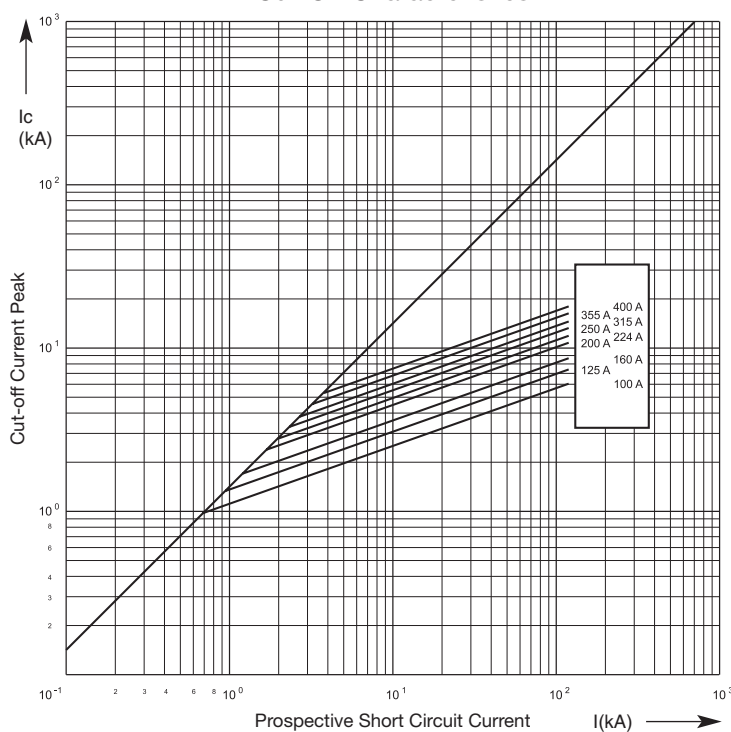
Rated Voltage
AC 500 V

Operating Class
≤ 100 A gR / > 100 A aR

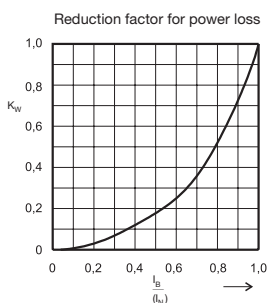
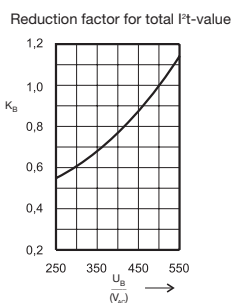
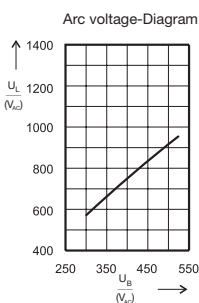
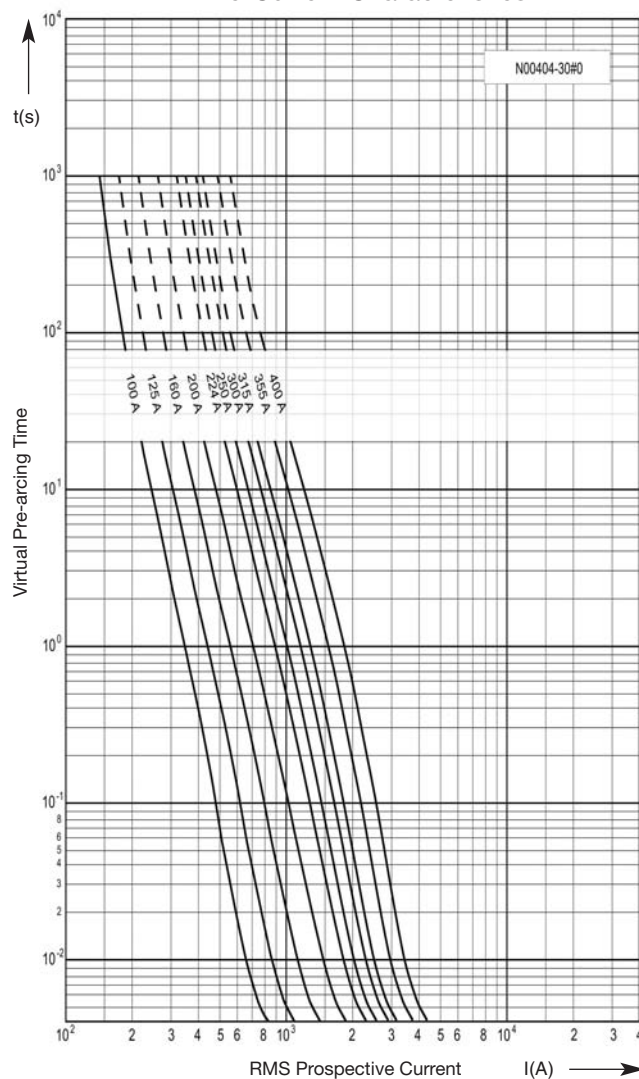
Rated Breaking Capacity
120 kA

Rated Current [A]	Part No. with Combi Indicator	Part No. with Signal Indicator	Power Loss [W]	Pre-arcing I ² t-value [A ² t]	Total I ² t-value @ 500 V [A ² t]
100	20 004 04.100	20 010 04.100	23	920	7 600
125	20 004 04.125	20 010 04.125	29	1 660	12 300
160	20 004 04.160	20 010 04.160	40	2 400	19 500
200	20 004 04.200	20 010 04.200	40	5 800	37 000
224	20 004 04.224	20 010 04.224	44	7 600	39 000
250	20 004 04.250	20 010 04.250	51	9 600	51 000
315	20 004 04.315	20 010 04.315	69	14 000	84 000
355	20 004 04.355	20 010 04.355	81	20 000	125 000
400	20 004 04.400	20 010 04.400	94	27 000	155 000

Cut-Off Characteristics



Time-Current Characteristics



Size
3

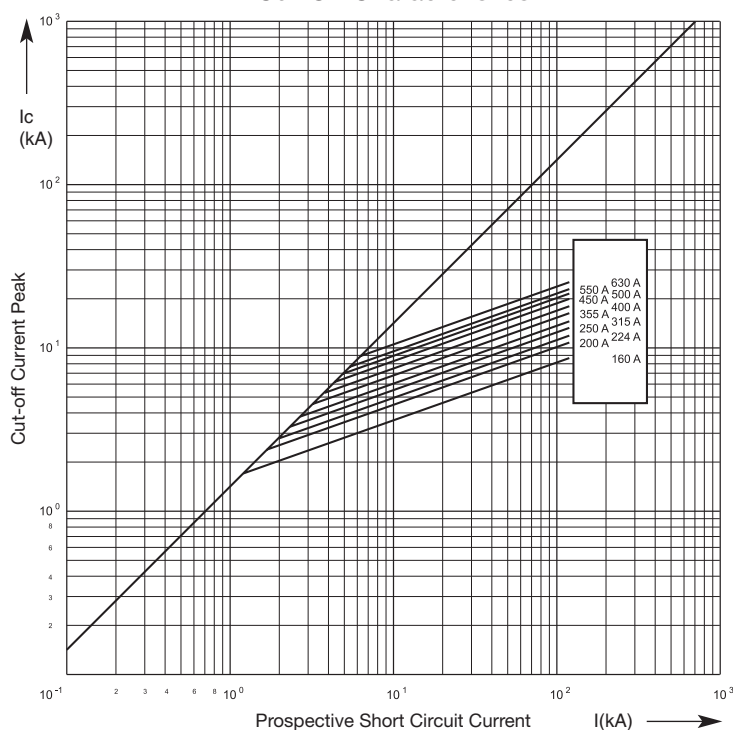
Rated Voltage
AC 500 V

Operating Class
aR

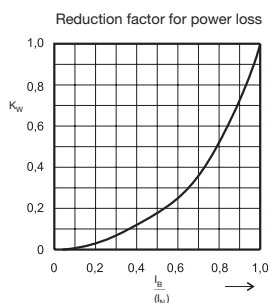
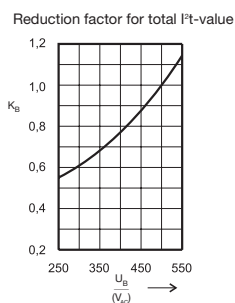
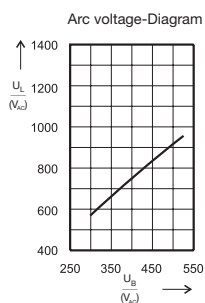
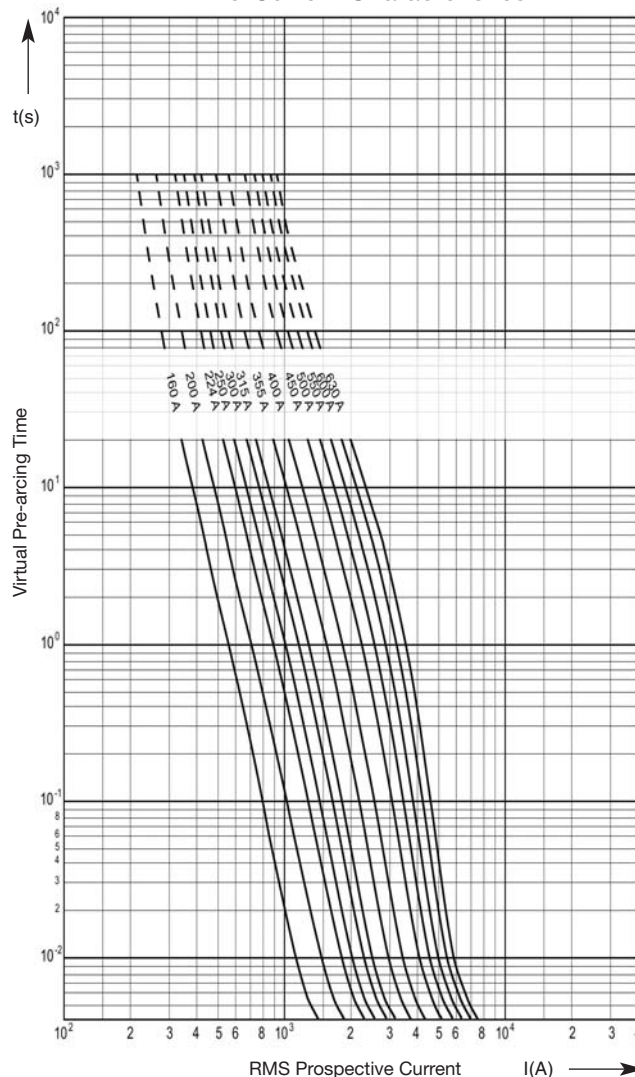
Rated Breaking Capacity
120 kA

Rated Current [A]	Part No. with Combi Indicator	Part No. with Signal Indicator	Power Loss [W]	Pre-arcing I^2t -value [A ² t]	Total I^2t -value @ 500 V [A ² t]
160	20 005 04.160	20 011 04.160	48	2 400	19 500
200	20 005 04.200	20 011 04.200	56	5 800	37 000
224	20 005 04.224	20 011 04.224	61	7 600	39 000
250	20 005 04.250	20 011 04.250	65	9 600	51 000
315	20 005 04.315	20 011 04.315	76	14 000	84 000
355	20 005 04.355	20 011 04.355	83	20 000	125 000
400	20 005 04.400	20 011 04.400	85	27 000	155 000
450	20 005 04.450	20 011 04.450	90	38 000	190 000
500	20 005 04.500	20 011 04.500	98	47 000	240 000
550	20 005 04.550	20 011 04.550	110	57 000	300 000
630	20 005 04.630	20 011 04.630	122	80 000	420 000

Cut-Off Characteristics



Time-Current Characteristics



Size
000/00

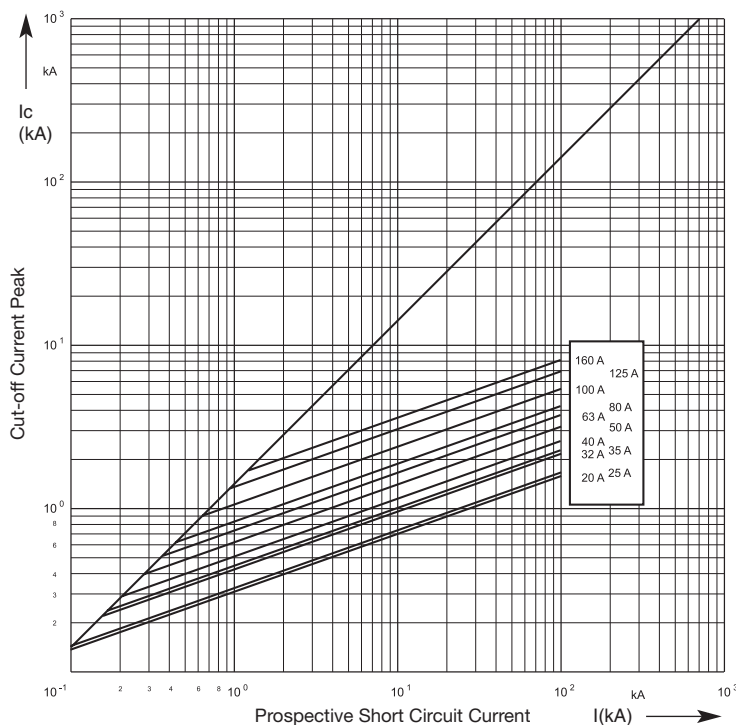
Rated Voltage
AC 690 V

Operating Class
≤ 100 A gR / > 100 A aR

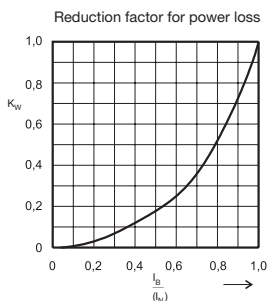
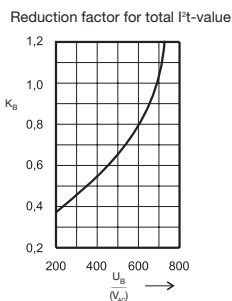
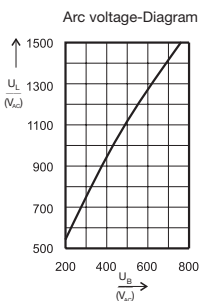
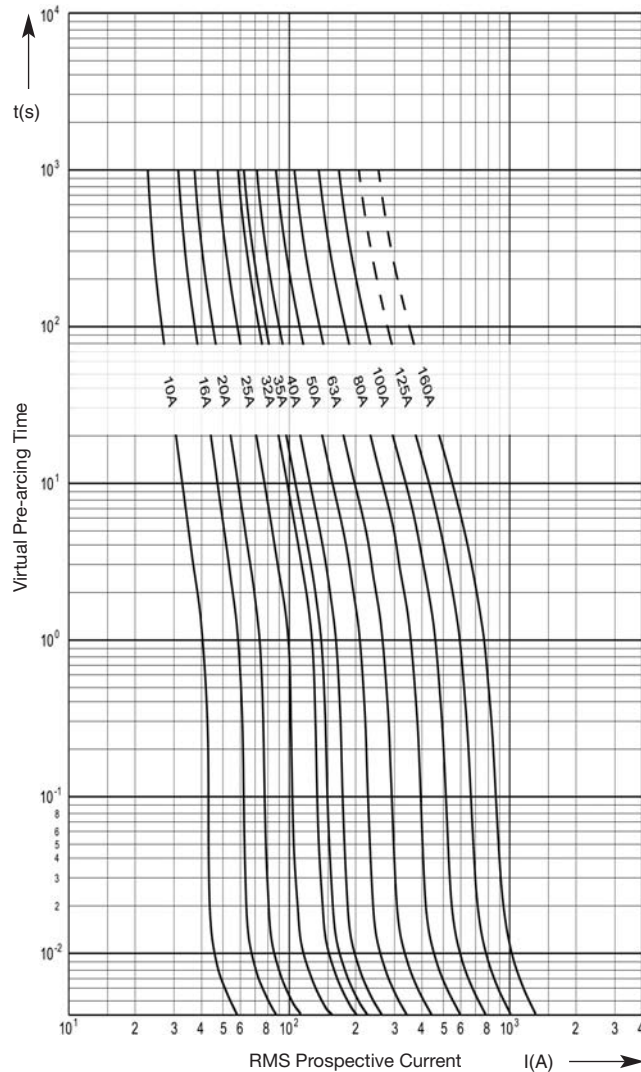
Rated Breaking Capacity
100 kA

Rated Current [A]	Part No. with Combi Indicator	Power Loss [W]	Pre-arcing I ² t-value [A ² t]	Total I ² t-value @ 690 V [A ² t]
10	20 477 20.10	2.5	2.5	18
16	20 477 20.16	4.1	5.5	40
20	20 477 20.20	5.5	12	91
25	20 477 20.25	6	16	110
32	20 477 20.32	7.1	35	250
40	20 477 20.40	9.2	61	450
50	20 477 20.50	12	110	820
63	20 209 20.63	14	190	1 400
80	20 209 20.80	17	350	2 600
100	20 209 20.100	21	610	4 500
125	20 209 20.125	25	1 200	9 100
160	20 209 20.160	32	2 100	15 000

Cut-Off Characteristics



Time-Current Characteristics



Size
1

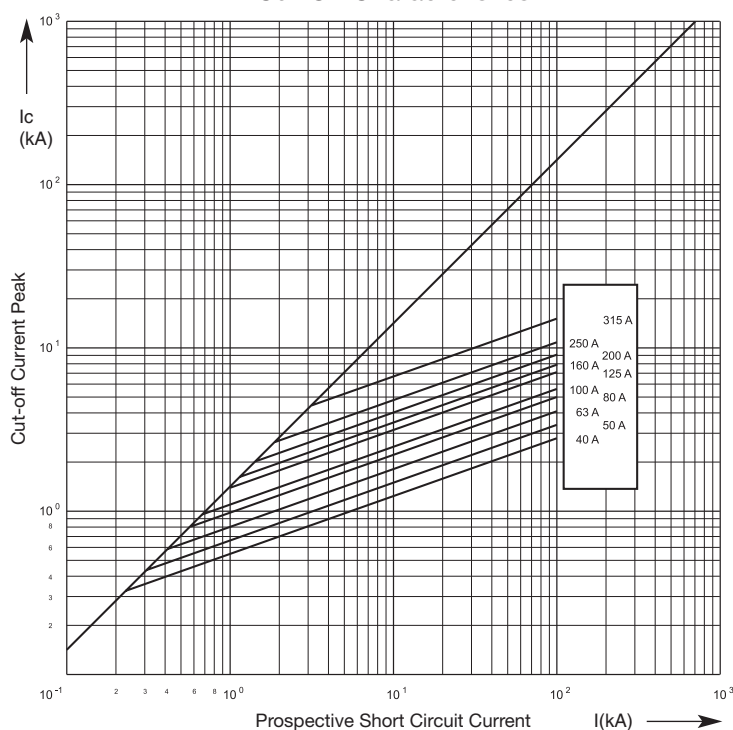
Rated Voltage
AC 690 V

Operating Class
 $\leq 100 \text{ A gR} / > 100 \text{ A aR}$

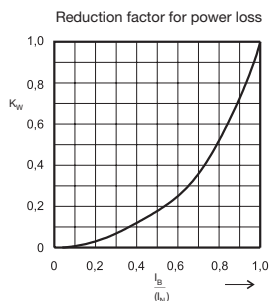
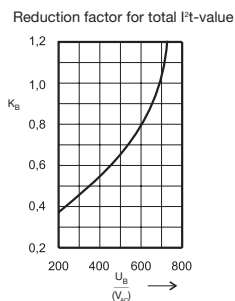
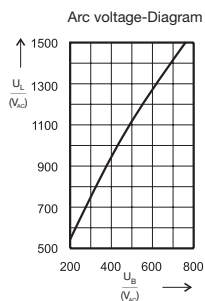
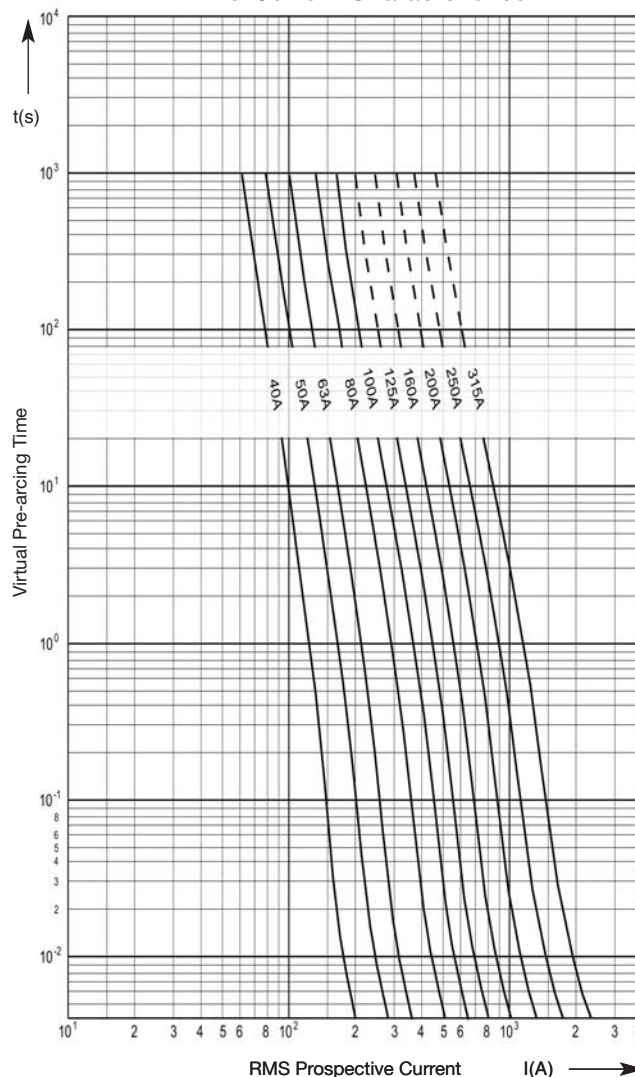
Rated Breaking Capacity
100 kA

Rated Current [A]	Part No. with Combi Indicator	Power Loss [W]	Pre-arcing I ² t-value [A ² t]	Total I ² t-value @ 690 V [A ² t]
40	20 211 20.40	8	80	570
50	20 211 20.50	11	140	1 000
63	20 211 20.63	14	250	1 800
80	20 211 20.80	20	470	3 400
100	20 211 20.100	24	650	4 700
125	20 211 20.125	31	1 050	7 600
160	20 211 20.160	42	1 900	14 000
200	20 211 20.200	52	2 800	21 000
250	20 211 20.250	71	5 000	36 000
315	20 211 20.315	88	11 000	76 000

Cut-Off Characteristics



Time-Current Characteristics



Size
2

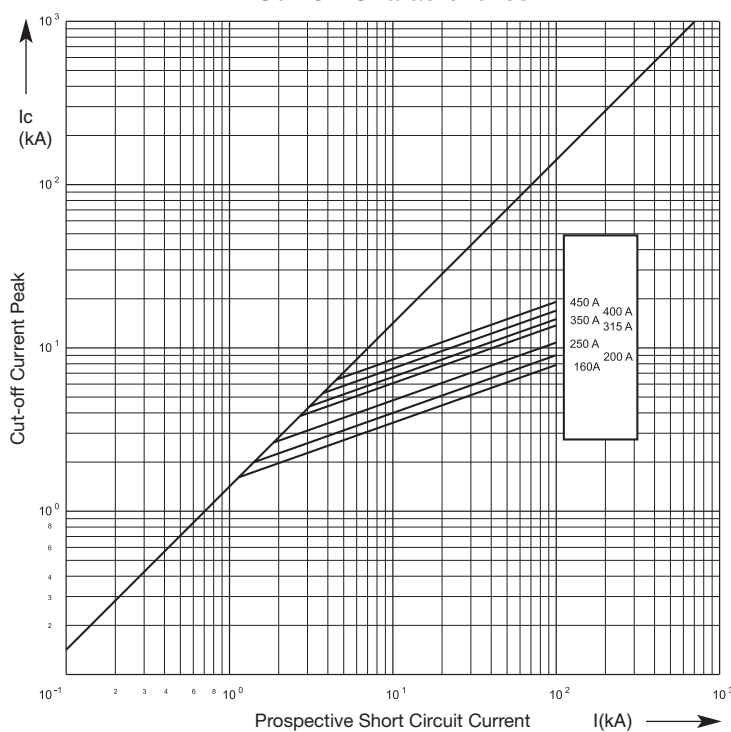
Rated Voltage
AC 690 V

Operating Class
aR

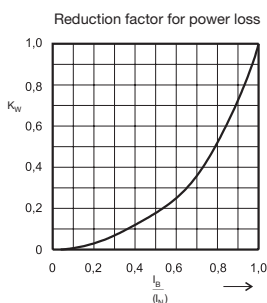
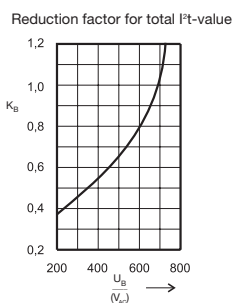
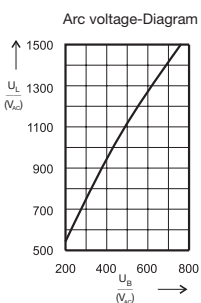
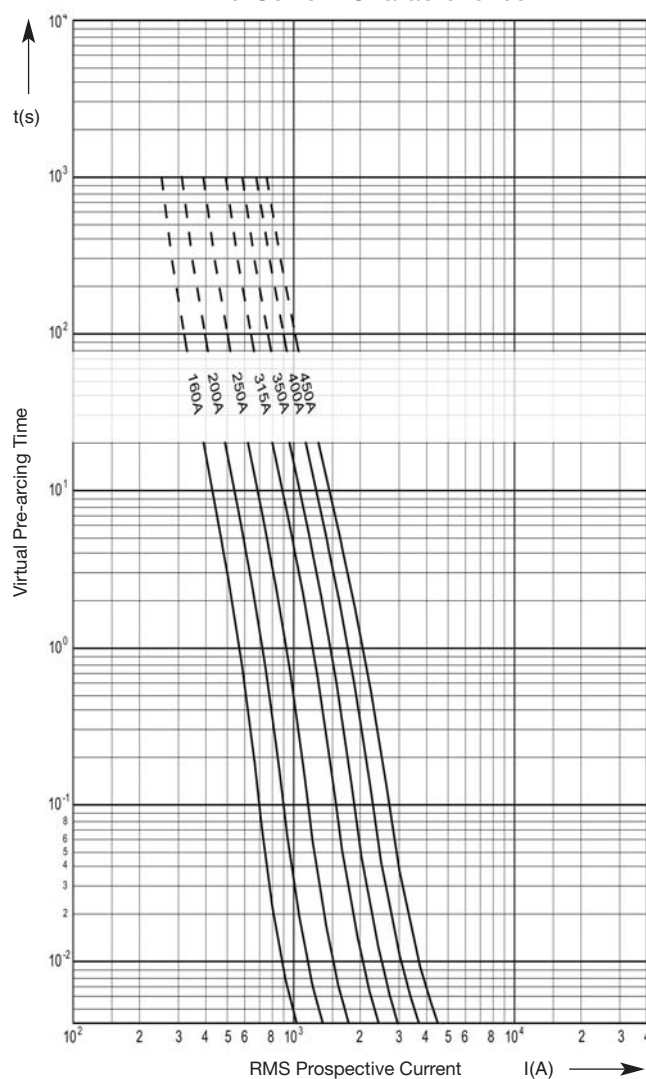
Rated Breaking Capacity
100 kA

Rated Current [A]	Part No. with Combi Indicator	Power Loss [W]	Pre-arcing I ² t-value [A ² t]	Total I ² t-value @ 690 V [A ² t]
160	20 212 20.160	42	1 900	14 000
200	20 212 20.200	52	2 800	21 000
250	20 212 20.250	71	5 000	36 000
315	20 212 20.315	79	11 000	76 000
350	20 212 20.350	85	14 000	100 000
400	20 212 20.400	95	20 000	145 000
450	20 212 20.450	100	30 000	220 000

Cut-Off Characteristics



Time-Current Characteristics



Size
3

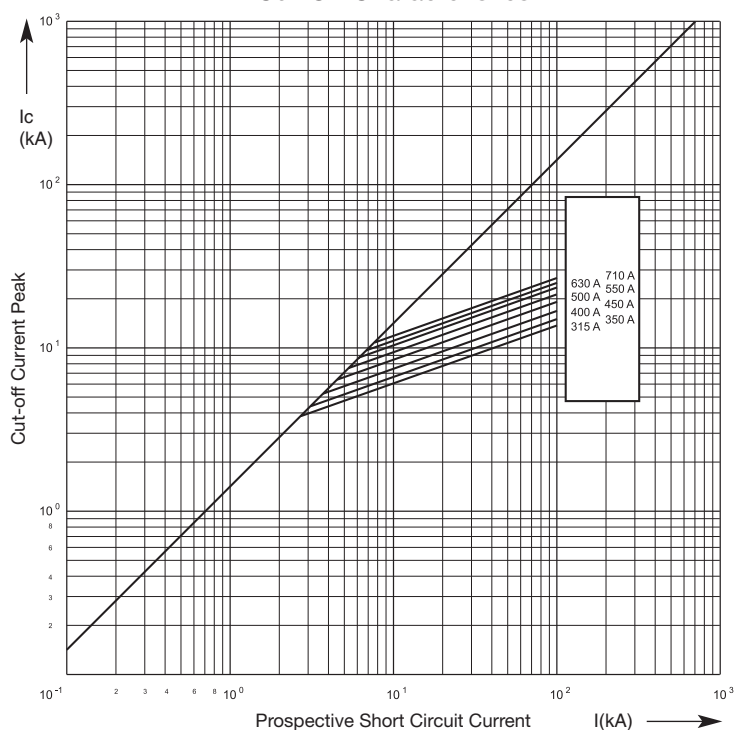
Rated Voltage
AC 690 V

Operating Class
aR

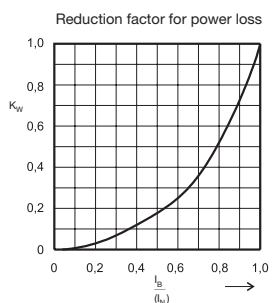
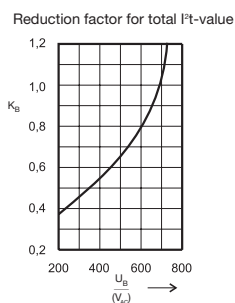
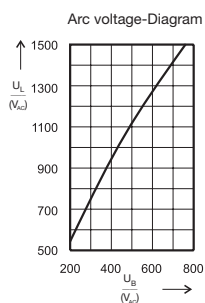
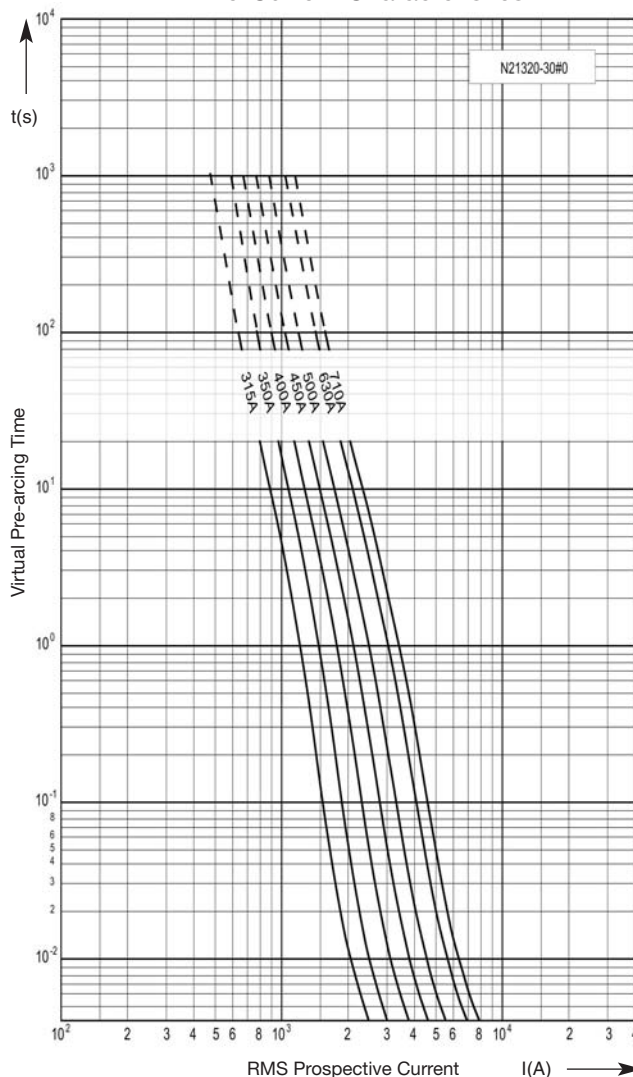
Rated Breaking Capacity
100 kA

Rated Current [A]	Part No. with Combi Indicator	Power Loss [W]	Pre-arcing I ² t-value [A ² t]	Total I ² t-value @ 690 V [A ² t]	
315	20 213 20.315	79.0	11 000	76 000	
355	20 213 20.355	85.0	14 000	100 000	
400	20 213 20.400	95.0	20 000	150 000	
450	20 213 20.450	95.0	30 000	220 000	
500	20 213 20.500	100.0	42 000	300 000	
550	20 213 20.550	110.0	55 000	400 000	
630	20 213 20.630	130.0	67 000	490 000	
710	20 213 20.710	150.0	84 000	610 000	

Cut-Off Characteristics



Time-Current Characteristics



Size
0

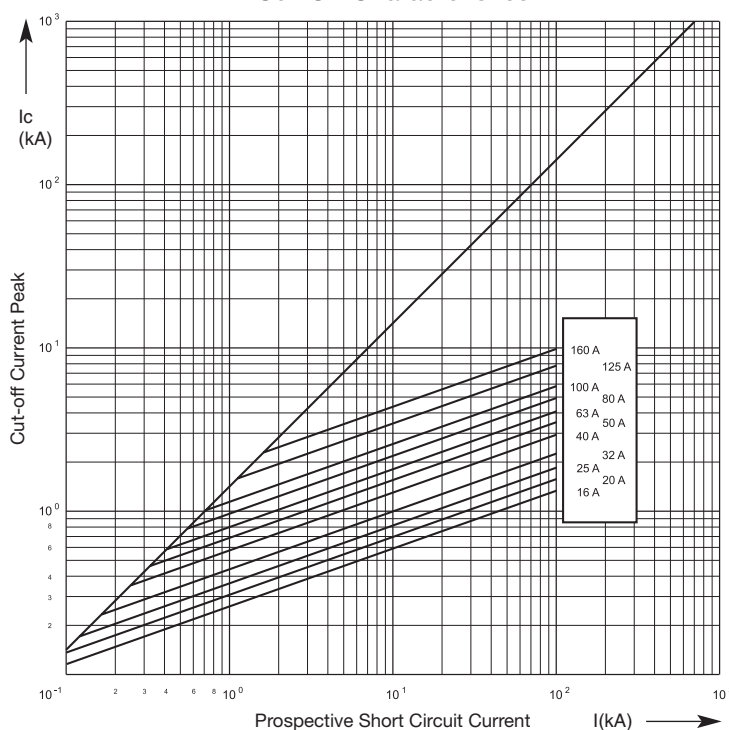
Rated Voltage
AC 1000 V

Operating Class
≤ 50 A gR / > 50 A aR

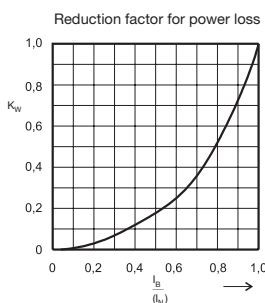
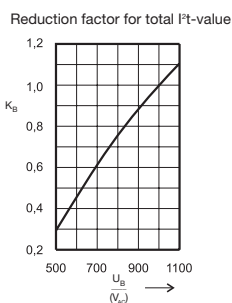
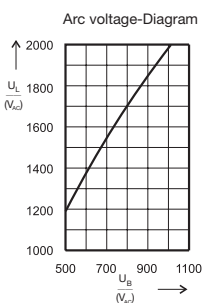
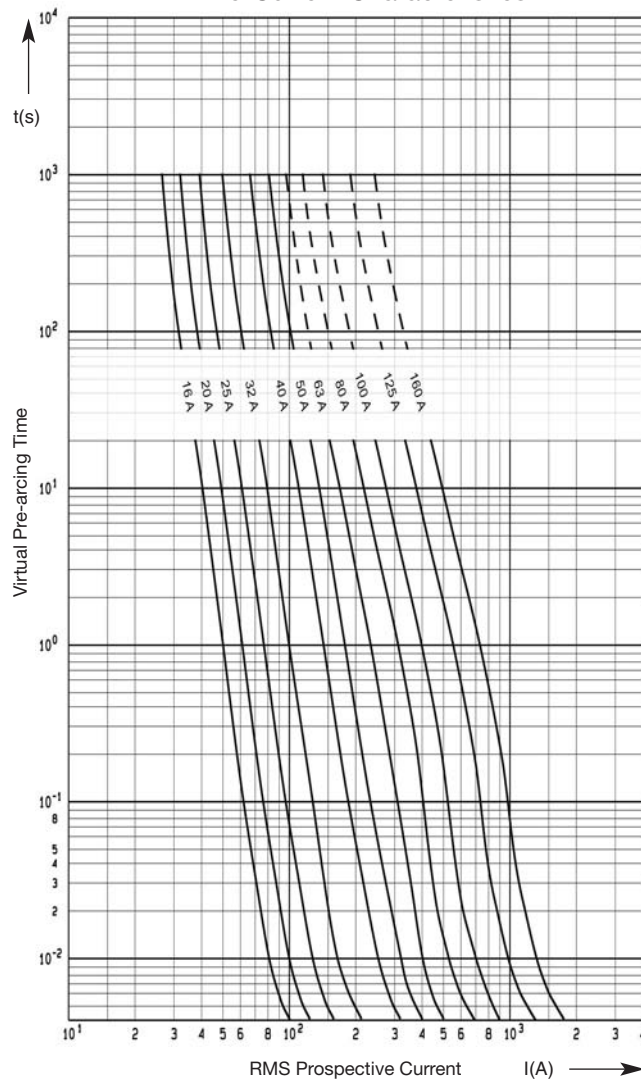
Rated Breaking Capacity
100 kA

Rated Current [A]	Part No. with combi indicator	Power Loss [W]	Pre-arcing I ² t-value [A ² t]	Total I ² t-value @ 1000 V [A ² t]
16	20 384 04.16	6.8	10	50
20	20 384 04.20	8	17	100
25	20 384 04.25	9	29	180
32	20 384 04.32	12	52	340
40	20 384 04.40	14	120	600
50	20 384 04.50	19	210	1 100
63	20 384 04.63	21	320	1 700
80	20 384 04.80	23	700	3 300
100	20 384 04.100	27	1 100	6 500
125	20 384 04.125	32	2 300	14 000
160	20 384 04.160	42	4 500	20 000

Cut-Off Characteristics



Time-Current Characteristics



Size
3

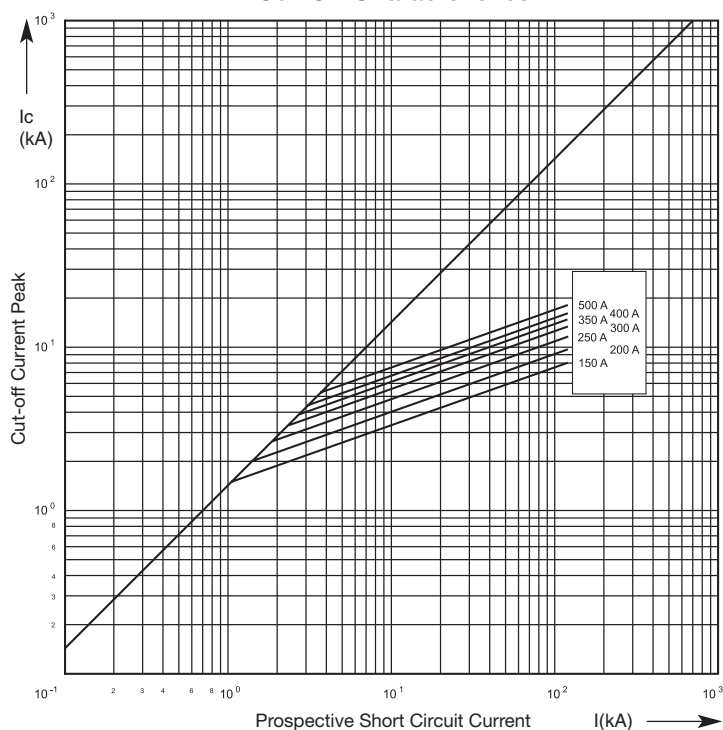
Rated Voltage
AC 660 V

Operating Class
gR

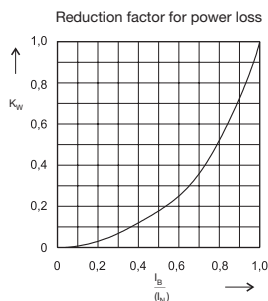
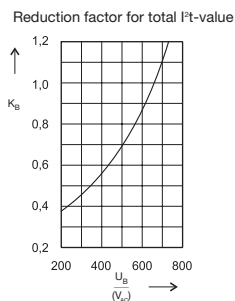
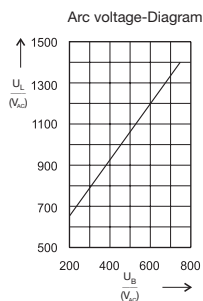
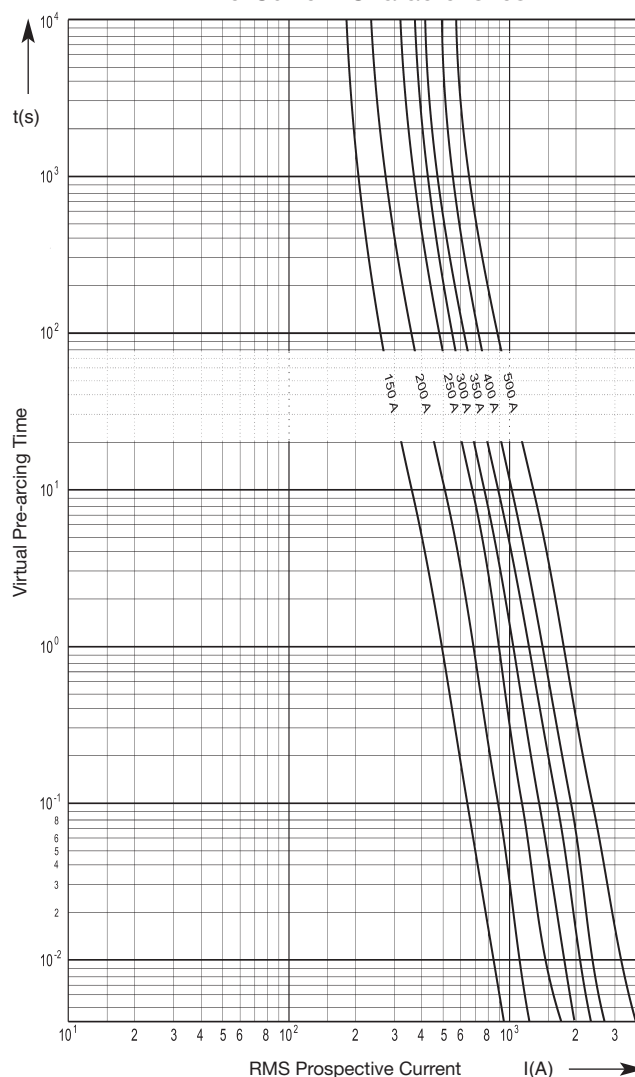
Rated Breaking Capacity
120 kA

Rated Current [A]	Part No. with Combi Indicator	Power Loss [W]	Pre-arcing I ² t-value [A ² t]	Total I ² t-value @ 660 V [A ² t]
150	20 373 04.150	35	2 100	20 000
200	20 373 04.200	56	3 800	36 000
250	20 373 04.250	69	6 700	65 000
300	20 373 04.300	78	10 000	102 000
350	20 373 04.350	84	14 000	145 000
400	20 373 04.400	97	19 000	185 000
500	20 373 04.500	114	27 000	280 000

Cut-Off Characteristics



Time-Current Characteristics



Size
3

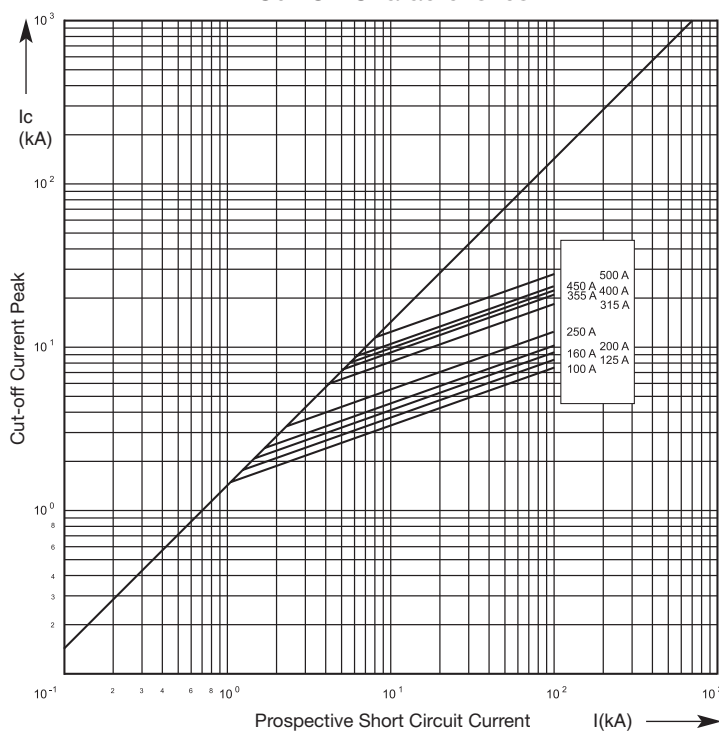
Rated Voltage
AC 1000 V

Operating Class
aR

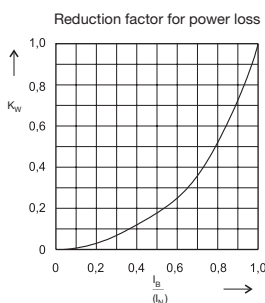
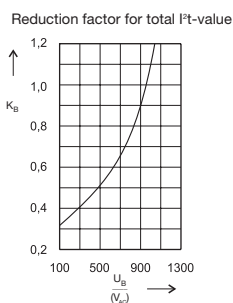
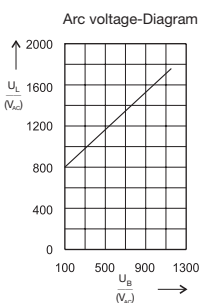
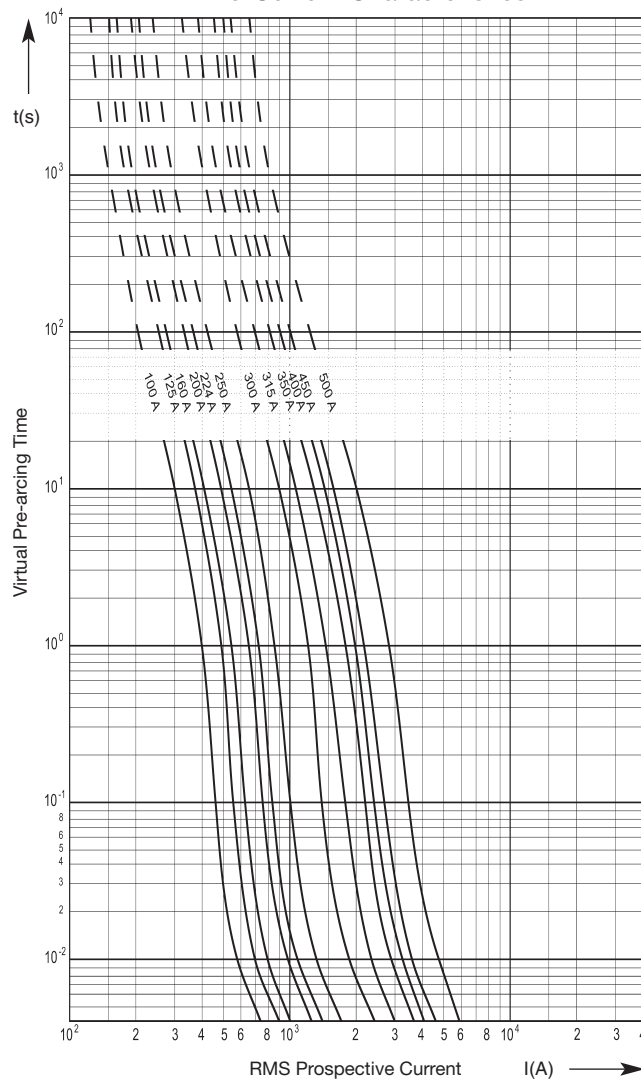
Rated Breaking Capacity
100 kA

Rated Current [A]	Part No. with Top Indicator	Power Loss [W]	Pre-arcing I ² t-value [A ² t]	Total I ² t-value @ 1000 V [A ² t]
100	20 407 04.100	28	2 100	5 800
125	20 407 04.125	34	2 900	8 900
160	20 407 04.160	36	4 100	12 800
200	20 407 04.200	41	5 600	18 000
250	20 407 04.250	49	10 000	31 000
315	20 407 04.315	73	34 000	97 000
355	20 407 04.355	77	51 000	152 000
400	20 407 04.400	79	60 000	180 000
450	20 407 04.450	82	74 000	220 000
500	20 407 04.500	87	125 000	370 000

Cut-Off Characteristics



Time-Current Characteristics



Size
3

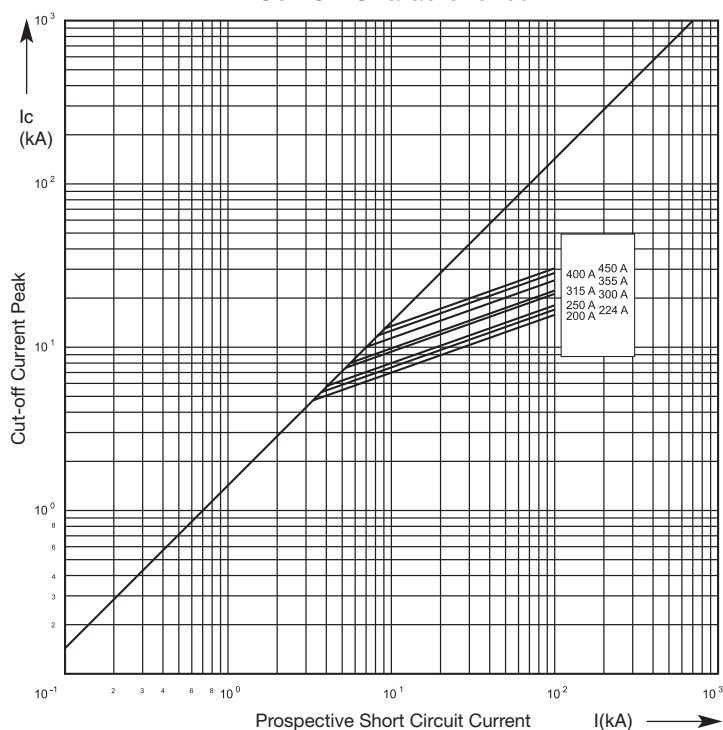
Rated Voltage
AC 2000 V

Operating Class
aR

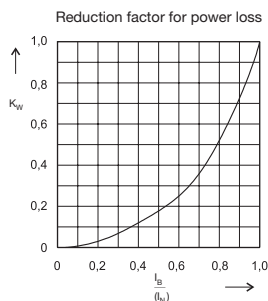
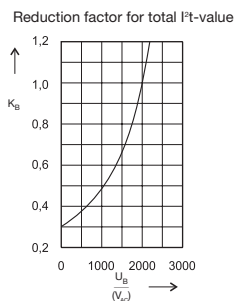
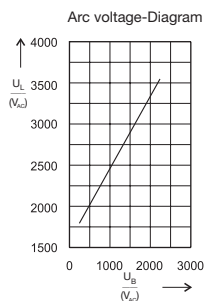
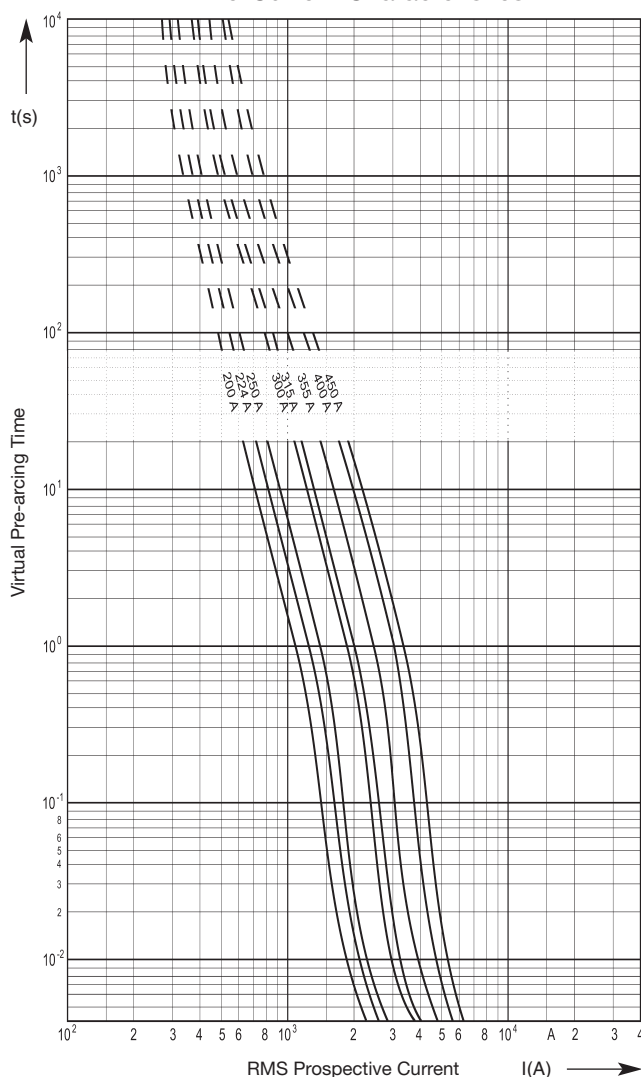
Rated Breaking Capacity
100 kA

Rated Current [A]	Part No. with Top Indicator	Power Loss [W]	Pre-arcing I ² t-value [A ² t]	Total I ² t-value @ 2000 V [A ² t]	
200	20 404 04.200	78	21 000	60 000	
224	20 404 04.224	85	27 000	77 000	
250	20 404 04.250	103	33 000	95 000	
300	20 404 04.300	115	53 000	151 000	
315	20 404 04.315	121	62 000	172 000	
355	20 404 04.355	135	97 000	280 000	
400	20 404 04.400	145	130 000	410 000	
450	20 404 04.450	153	159 000	520 000	

Cut-Off Characteristics



Time-Current Characteristics



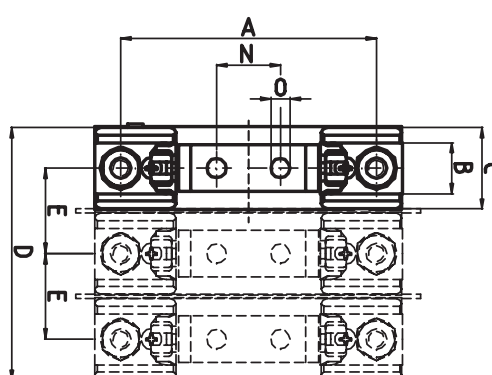
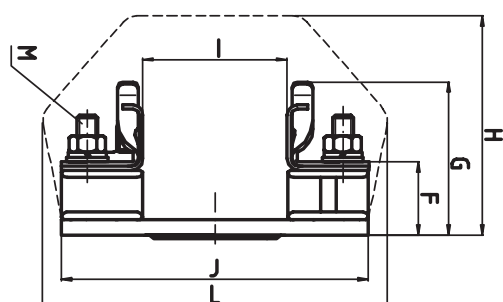
Fuse-Bases 1 pole

Size
000 + 00

Rated Voltage
AC 500/660/690 V

Standard
DIN 43620

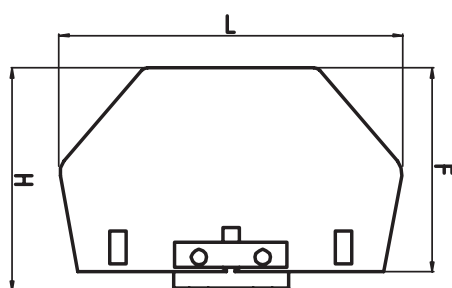
Rated Current [A]	Part No.	Weight [kg/1]	Pack
160	21 001 01	0.26	3


Part No.
21 001 01

A	3.94" (100 mm)
B	0.80" (20 mm)
C	1.26" (32 mm)
D	3.90" (99 mm)
E	1.32" (33.5 mm)
F	1.14" (29 mm)
G	2.32" (59 mm)
H	3.40" (86 mm)
I	2.24" (57 mm)
J	4.72" (120 mm)
L	5.30" (135 mm)
M	M 8
N	0.98" (25 mm)
O	0.30" (7.5 mm)

External Wall

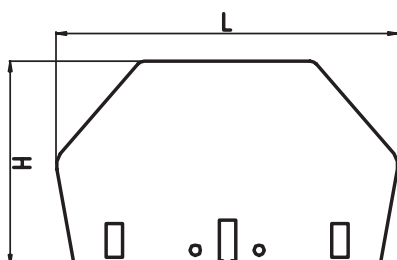
Size
000 + 00

Standard
DIN 43620

Part No.
25 001 01

F	3.15" (80 mm)
H	3.40" (86 mm)
L	5.30" (135 mm)

Partition Wall

Size
000 + 00

Standard
DIN 43620

Part No.
25 001 03-2

H	3.15" (80 mm)
L	5.30" (135 mm)

Fuse-Bases 3 pole

Size
000 + 00

Rated Voltage
AC 500/660/690 V

Standard
DIN 43620

Rated Current
[A]

160

Part No.

21 001 03

Weight
[kg/1]

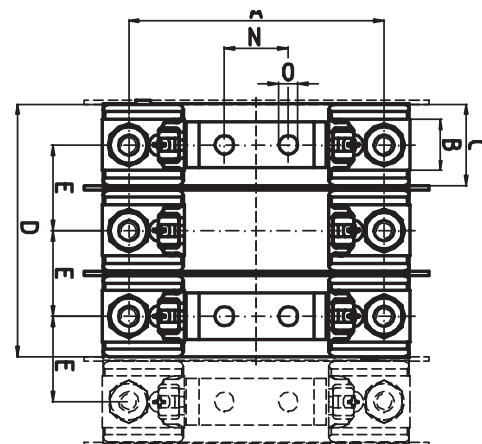
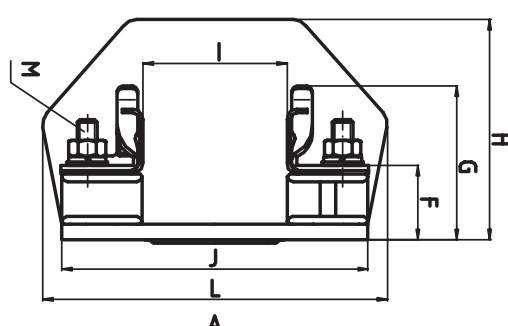
0.81

Pack

1

Part No.
21 001 03

A	3.94" (100 mm)
B	0.80" (20 mm)
C	1.26" (32 mm)
D	3.90" (99 mm)
E	1.32" (33.5 mm)
F	1.14" (29 mm)
G	2.32" (59 mm)
H	3.40" (86 mm)
I	2.24" (57 mm)
J	4.72" (120 mm)
L	5.30" (135 mm)
M	M 8
N	0.98" (25 mm)
O	0.30" (7.5 mm)



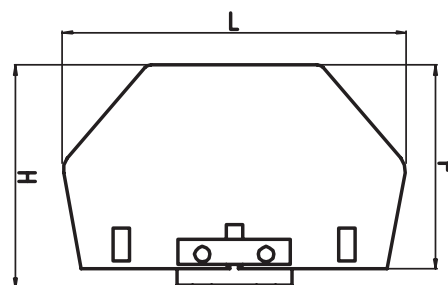
External Wall

Size
000 + 00

Standard
DIN 43620

Part No.
25 001 01

F	3.15" (80 mm)
H	3.40" (86 mm)
L	5.30" (135 mm)



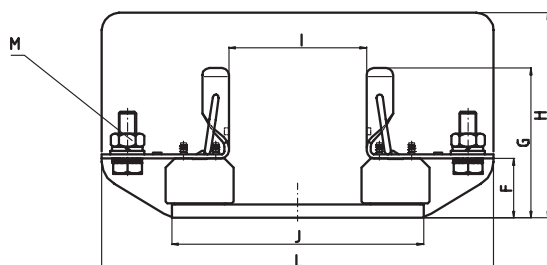
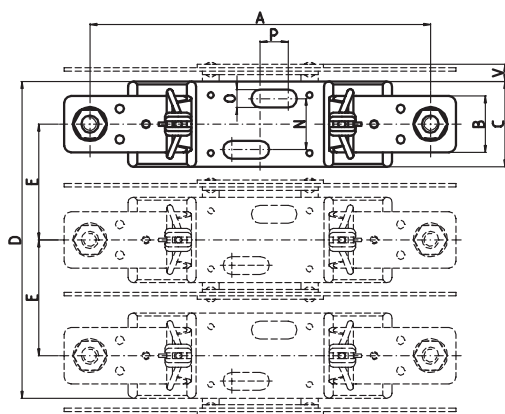
Fuse-Bases 1 pole

Size
1 - 3

Rated Voltage
AC 500/660/690 V

Standard
DIN 43620

Rated current [A]	Part No.	Weight [kg/1]	Pack
250	21 003 01	0.72	1
400	21 004 01	0.88	1
630	21 005 01	1.16	1


Size 1
Part No.
21 003 01

A	6.90" (175 mm)
B	1.30" (33 mm)
C	1.97" (50 mm)
D	7.00" (178 mm)
E	2.52" (64 mm)
F	1.38" (35 mm)
G	3.30" (84 mm)
H	4.20" (107 mm)
I	3.15" (80 mm)
J	5.83" (148 mm)
L	7.87" (200 mm)
M	M 10
N	1.18" (30 mm)
O	0.40" (10 mm)
P	0.65" (16.5 mm)
V	0.40" (10 mm)

Size 2
Part No.
21 004 01

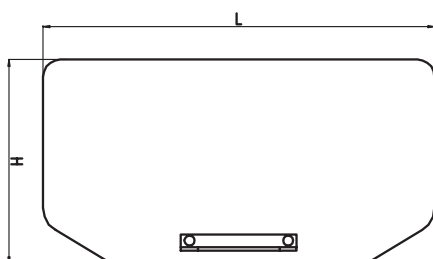
A	7.87" (200 mm)
B	1.30" (33 mm)
C	1.97" (50 mm)
D	7.32" (186 mm)
E	2.68" (68 mm)
F	1.38" (35 mm)
G	3.58" (91 mm)
H	4.72" (120 mm)
I	3.15" (80 mm)
J	5.83" (148 mm)
L	9.06" (230 mm)
M	M 10
N	1.18" (30 mm)
O	0.40" (10 mm)
P	0.65" (16.5 mm)
V	0.40" (10 mm)

Size 3
Part No.
21 005 01

A	8.27" (210 mm)
B	1.30" (33 mm)
C	2.17" (55 mm)
D	8.86" (225 mm)
E	3.35" (85 mm)
F	1.38" (35 mm)
G	3.78" (96 mm)
H	5.00" (127 mm)
I	3.15" (80 mm)
J	5.83" (148 mm)
L	9.84" (250 mm)
M	M 10
N	1.18" (30 mm)
O	0.40" (10 mm)
P	0.65" (16.5 mm)
V	0.40" (10 mm)

External Wall

Size
1 - 3

Standard
DIN 43620

Size 1
Part No.
25 003 01

H	4.20" (107 mm)
L	7.87" (200 mm)

Size 2
Part No.
25 004 01

H	4.72" (120 mm)
L	9.06" (230 mm)

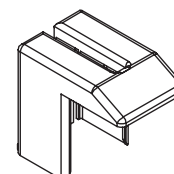
Size 3
Part No.
25 005 01

H	5.00" (127 mm)
L	9.84" (250 mm)

Contact Insulating Covers for NH Fuse-Base

Size
1 - 3

Size	Part No.	for Fuse base	Weight [kg/1]	Pack
1	21 003 01.26	21 003 01	0.020	10
2	21 004 01.26	21 004 01	0.025	10
3	21 005 01.26	21 005 01	0.030	10



Fuse-Bases 3 pole

Size
1 + 2

Rated Voltage
AC 500/660/690 V

Standard
DIN 43620

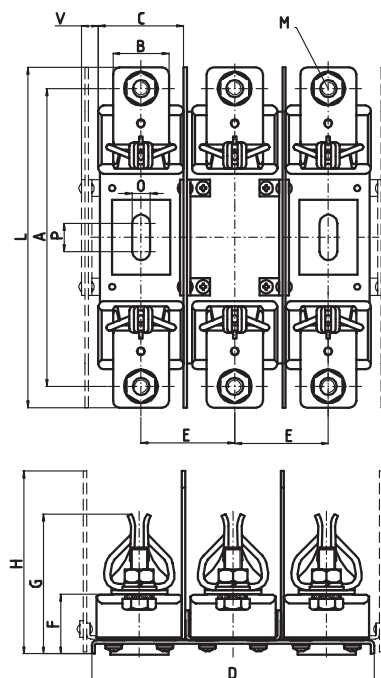
Rated Current [A]	Part No.	Weight [kg/1]	Pack
250	21 003 03	2.36	1
400	21 004 03	3.15	1

Size 1
Part No.
21 003 03

A	6.90" (175 mm)
B	1.30" (33 mm)
C	1.97" (50 mm)
D	6.54" (166 mm)
E	2.52" (64 mm)
F	1.38" (35 mm)
G	3.30" (84 mm)
H	4.20" (107 mm)
L	7.87" (200 mm)
M	M 10
O	0.40" (10 mm)
P	0.65" (16.5 mm)
V	0.40" (10 mm)

Size 2
Part No.
21 004 03

A	7.87" (200 mm)
B	1.30" (33 mm)
C	1.97" (50 mm)
D	7.00" (178 mm)
E	2.68" (68 mm)
F	1.38" (35 mm)
G	3.58" (91 mm)
H	4.72" (120 mm)
L	9.06" (230 mm)
M	M 10
O	0.40" (10 mm)
P	0.65" (16.5 mm)
V	0.40" (10 mm)



External Wall

Size
1 + 2

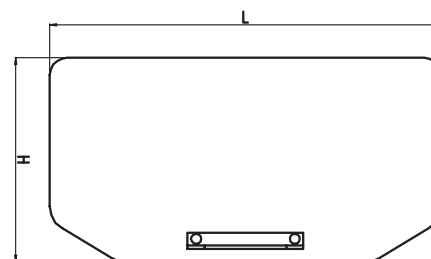
Standard
DIN 43620

Size 1
Part No.
25 003 01

H	4.20" (107 mm)
L	7.87" (200 mm)

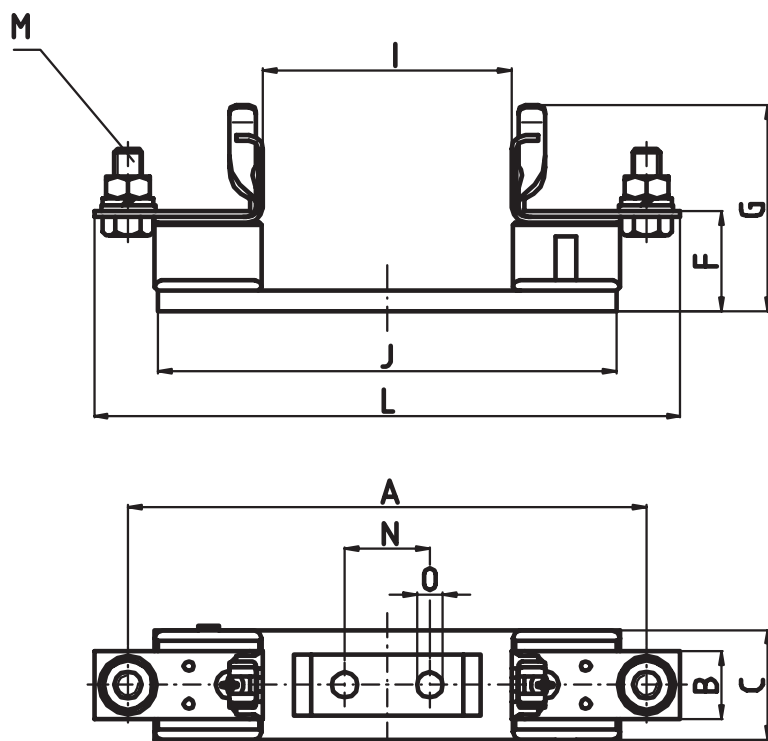
Size 2
Part No.
25 004 01

H	4.72" (120 mm)
L	9.06" (230 mm)



Fuse-Base

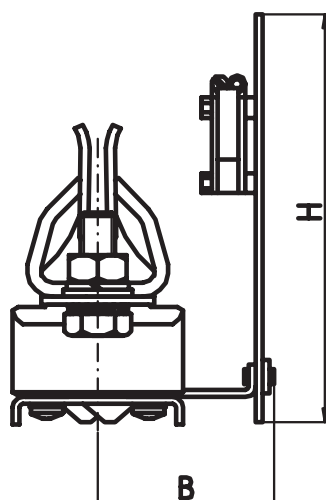
 Sizes
0

 Rated Voltage
AC 1000 V

Part No.
21 384 01

A	5.98" (152 mm)
B	0.80" (20 mm)
C	1.26" (32 mm)
F	1.14" (29 mm)
G	2.32" (59 mm)
I	2.87" (73 mm)
J	5.28" (134 mm)
L	6.80" (173 mm)
M	M 8
N	0.98" (25 mm)
O	0.30" (7.5 mm)

Fuse-Base

 Sizes
00,1,2 and 3

 Rated Voltage
AC 500 V
With External Micro Switch

Size 00
Part No. 21 007 01

B	1.34" (34 mm)
H	3.15" (80 mm)

Size 1
Part No. 21 009 01

B	1.65" (42 mm)
H	4.33" (110 mm)

Size 2
Part No. 21 010 01

B	2.05" (52 mm)
H	4.72" (120 mm)

Size 3
Part No. 21 011 01

B	2.17" (55 mm)
H	5.00" (127 mm)

