



Low Voltage Fuses

European NH Knife-Blade Fuse System

Selection Guide **gG** - General Application

Size	Rated Voltage [V]	Metal Gripping-Lugs	Indicator Type	Part No.	Selector Guide [Page]	Techn. Data [Page]
000	500	live	combi indicator	20 000 13	NH 8	NH 27
00	500	live	combi indicator	20 001 13	NH 8	NH 27
0	500	live	combi indicator	20 002 13	NH 9	NH 27
1	500	live	combi indicator	20 003 13	NH 9	NH 28
2	500	live	combi indicator	20 004 13	NH 10	NH 28
3	500	live	combi indicator	20 005 13	NH 10	NH 28
4	500	live	top indicator	20 006 13	NH 11	NH 29
4	500	live	top indicator	20 228 13	NH 11	NH 29
4a	500	live	top indicator	20 120 13	NH 11	NH 29
000	500	insulated	combi indicator	20 438 13	NH 14	NH 27
00	500	insulated	combi indicator	20 439 13	NH 14	NH 27
1	500	insulated	combi indicator	20 441 13	NH 15	NH 28
2	500	insulated	combi indicator	20 442 13	NH 15	NH 28
3	500	insulated	combi indicator	20 443 13	NH 16	NH 28
000	690	live	combi indicator	20 477 13	NH 8	NH 31
00	690	live	combi indicator	20 209 13	NH 8	NH 31
0	690	live	combi indicator	20 210 13	NH 9	NH 31
1	690	live	combi indicator	20 211 13	NH 9	NH 32
2	690	live	combi indicator	20 212 13	NH 10	NH 32
3	690	live	combi indicator	20 213 13	NH 10	NH 32
4	690	live	top indicator	20 225 13	NH 11	NH 33
4a	690	live	top indicator	20 227 13	NH 11	NH 33
000	690	insulated	combi indicator	20 452 13	NH 14	NH 31
00	690	insulated	combi indicator	20 453 13	NH 14	NH 31
1	690	insulated	combi indicator	20 455 13	NH 15	NH 32
2	690	insulated	combi indicator	20 456 13	NH 15	NH 32

Selection Guide **gB** - Mining Application

Size	Rated Voltage [V]	Metal Gripping-Lugs	Indicator Type	Part No.	Selector Guide [Page]	Techn. Data [Page]
000	1 000	live	top indicator	20 386 03	NH 18	NH 35
00	1 000	live	top indicator	20 389 03	NH 18	NH 35



Low Voltage Fuses

European NH Knife-Blade Fuse System

gG

General
Applikation

Size
000

Metal Gripping-Lugs with Combi Indicator

Standard
IEC 60269-2-1

Rated Voltage **AC 500 V / DC 220 V**

Rated Voltage **AC 690 V / DC 220 V**

Rated Current [A]	Part No.	Weight [kg/1]	Pack
2	20 000 13.2	0.11	10
4	20 000 13.4	0.11	10
6	20 000 13.6	0.11	10
10	20 000 13.10	0.11	10
16	20 000 13.16	0.11	10
20	20 000 13.20	0.11	10
25	20 000 13.25	0.11	10
32	20 000 13.32	0.11	10
35	20 000 13.35	0.11	10
40	20 000 13.40	0.11	10
50	20 000 13.50	0.11	10
63	20 000 13.63	0.11	10
80	20 000 13.80	0.11	10
100	20 000 13.100	0.11	10

Rated Current [A]	Part No.	Weight [kg/1]	Pack
6	20 477 13.6	0.11	3
10	20 477 13.10	0.11	3
16	20 477 13.16	0.11	3
20	20 477 13.20	0.11	3
25	20 477 13.25	0.11	3
32	20 477 13.32	0.11	3
35	20 477 13.35	0.11	3
40	20 477 13.40	0.11	3
50	20 477 13.50	0.11	3

Size
00

Metal Gripping-Lugs with Combi Indicator

Standard
IEC 60269-2-1

Rated Voltage **AC 500 V / DC 220 V**

Rated Voltage **AC 690 V / DC 220 V**

Rated Current [A]	Part No.	Weight [kg/1]	Pack
125	20 001 13.125	0.154	10
160	20 001 13.160	0.154	10

Rated Current [A]	Part No.	Weight [kg/1]	Pack
63	20 209 13.63	0.154	3
80	20 209 13.80	0.154	3
100	20 209 13.100	0.154	3
125	20 209 13.125	0.154	3

Dimensions see Page NH 12 + NH 13



Low Voltage Fuses

European NH Knife-Blade Fuse System

gG

General
Applikation

Dimensions Metal Gripping-Lugs

Rated Voltage
AC 500 V

Standard
IEC 60269-2-1

20 000 13

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)

20 001 13

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)

20 002 13

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)

20 003 13 ≤ 160 A

A _{max.}	2.95" (75 mm)
B	0.80" (20 mm)
C	2.56" (65 mm)
D	1.16" (29.5 mm)
E	1.80" (46 mm)
F	0.24" (6 mm)
G	1.57" (40 mm)
H	2.28" (58 mm)
I	0.30" (8 mm)
L	5.30" (135 mm)

20 003 13 > 160 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	1.57" (40 mm)
H	2.52" (64 mm)
I	0.55" (14 mm)
L	5.30" (135 mm)

20 004 13 ≤ 160 A

A _{max.}	2.95" (75 mm)
B	0.80" (20 mm)
C	2.56" (65 mm)
D	1.16" (29.5 mm)
E	1.80" (46 mm)
F	0.24" (6 mm)
G	1.90" (48 mm)
H	2.48" (63 mm)
I	0.24" (8 mm)
L	5.90" (150 mm)

20 004 13 200 - 250 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)

20 004 13 > 250 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	1.90" (48 mm)
H	2.83" (72 mm)
I	0.55" (14 mm)
L	5.90" (150 mm)

20 005 13 ≤ 400 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)

20 005 13 > 400 A

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)

20 006 13 400 A - 1250 A

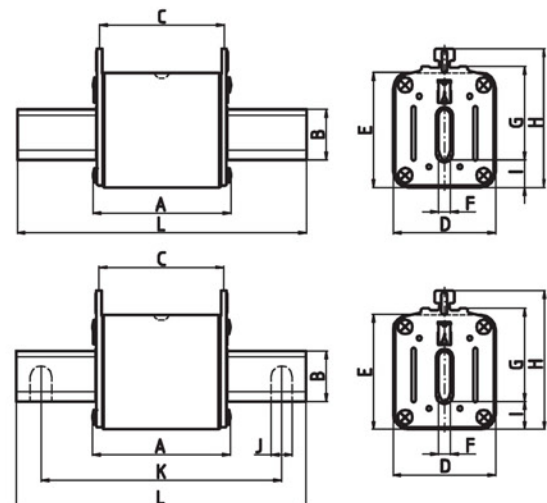
A _{max.}	3.54" (90 mm)
B	1.97" (50 mm)
C	2.56" (65 mm)
D	3.94" (100 mm)
E	4.25" (108 mm)
F	0.30" (8 mm)
G	3.35" (85 mm)
H	4.84" (123 mm)
I	1.10" (28 mm)
J	0.63" (16 mm)
K	5.90" (150 mm)
L	7.87" (200 mm)

20 006 13 1600 A

A	3.54" (100 mm)
B	1.97" (50 mm)
C	3.42" (87 mm)
D	3.54" (100 mm)
E	4.25" (108 mm)
F	0.30" (8 mm)
G	3.35" (85 mm)
H	4.84" (123 mm)
I	1.10" (28 mm)
J	0.63" (16 mm)
K	5.90" (150 mm)
L	7.87" (200 mm)

20 120 13

A _{max.}	3.94" (100 mm)
B	1.97" (50 mm)
C	3.43" (87 mm)
D	3.94" (100 mm)
E	4.25" (108 mm)
F	0.24" (6 mm)
G	3.35" (85 mm)
H	4.84" (123 mm)
I	1.10" (28 mm)
J	-
K	-
L	7.87" (200 mm)



Size 000	Rated Voltage AC 500 V	Operating Class gG	Rated Breaking Capacity 120 kA	Standard IEC 60269-2-1
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Rated Current [A]	Part No.	Power Loss [W]	Pre-arcing I ² t-value [A ² s]	Total I ² t-value @ 254 V [A ² s]	Total I ² t-value @ 440 V [A ² s]
6	20 000 13.6 / 20 438 13.6	1.4	36	75	130
10	20 000 13.10 / 20 438 13.10	1.2	230	320	560
16	20 000 13.16 / 20 438 13.16	1.6	420	490	810
20	20 000 13.20 / 20 438 13.20	1.8	760	910	1 480
25	20 000 13.25 / 20 438 13.25	2.3	1 440	1 780	2 890
32	20 000 13.32 / 20 438 13.32	3.1	2 600	3 360	5 630
35	20 000 13.35 / 20 438 13.35	3.8	3 100	4 770	7 610
40	20 000 13.40 / 20 438 13.40	4.0	4 700	6 750	11 300
50	20 000 13.50 / 20 438 13.50	4.0	5 900	8 340	13 600
63	20 000 13.63 / 20 438 13.63	4.5	10 300	16 200	26 400
80	20 000 13.80 / 20 438 13.80	5.4	17 300	27 200	45 500
100	20 000 13.100 / 20 438 13.100	6.5	28 900	45 500	88 600

Size 00	Rated Voltage AC 500 V	Operating Class gG	Rated Breaking Capacity 120 kA	Standard IEC 60269-2-1
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Rated Current [A]	Part No.	Power Loss [W]	Pre-arcing I ² t-value [A ² s]	Total I ² t-value @ 254 V [A ² s]	Total I ² t-value @ 440 V [A ² s]
125	20 001 13.125 / 20 439 13.125	8.2	44 400	78 600	127 500
160	20 001 13.160 / 20 439 13.160	11.2	78 500	139 600	226 600

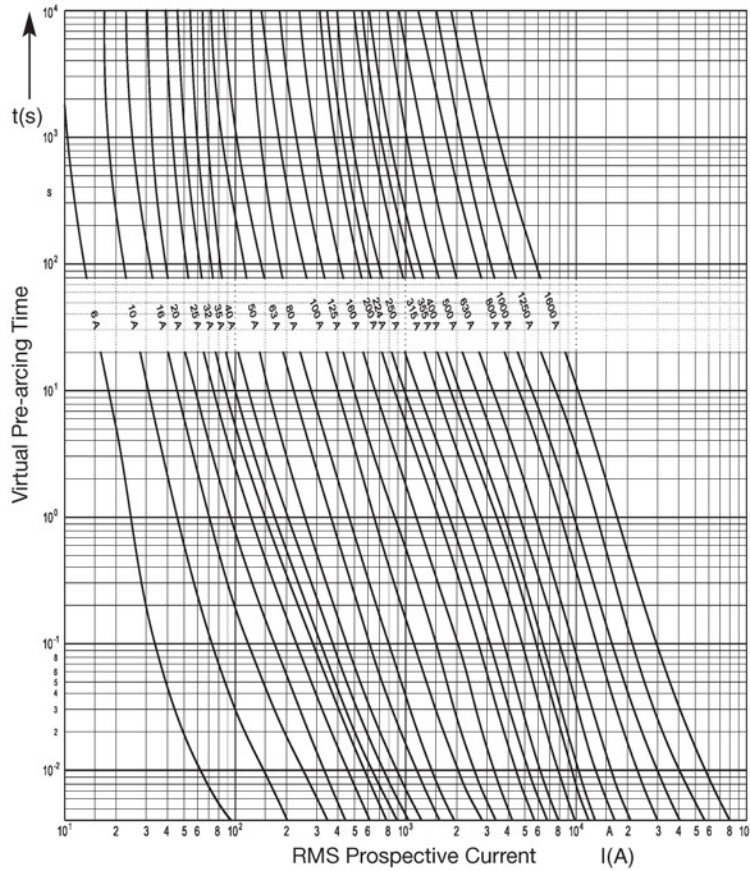
Size 0	Rated Voltage AC 500 V	Operating Class gG	Rated Breaking Capacity 120 kA	Standard IEC 60269-2-1
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Rated Current [A]	Part No.	Power Loss [W]	Pre-arcing I ² t-value [A ² s]	Total I ² t-value @ 254 V [A ² s]	Total I ² t-value @ 440 V [A ² s]
6	20 002 13.6	1.6	36	75	130
10	20 002 13.10	1.3	230	320	560
16	20 002 13.16	2.0	420	490	810
20	20 002 13.20	2.3	760	910	1 480
25	20 002 13.25	2.8	1 440	1 780	2 890
32	20 002 13.32	3.5	2 600	3 360	5 630
35	20 002 13.35	4.1	3 100	4 770	7 610
40	20 002 13.40	4.1	4 700	6 750	11 300
50	20 002 13.50	5.3	5 900	8 340	13 600
63	20 002 13.63	6.0	10 300	16 200	26 400
80	20 002 13.80	6.9	17 300	27 200	45 500
100	20 002 13.100	8.0	28 900	45 500	88 600
125	20 002 13.125	10.3	44 400	78 600	127 500
160	20 002 13.160	13.5	78 500	139 600	226 600

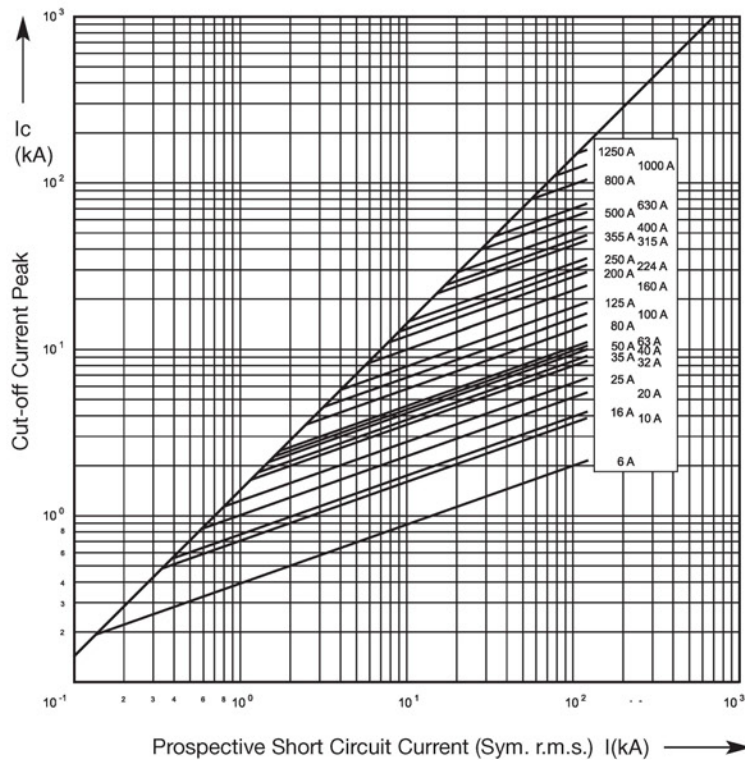
Time-Current Characteristics

Rated Voltage AC 500 V

Operating Class gG



Cut-Off Characteristics



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