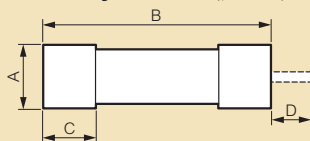


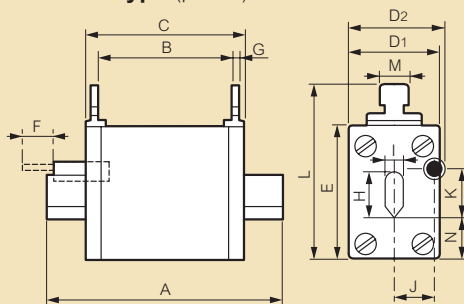
cartridge fuses

■ HRC cylindrical (p. 132)



Size (mm)	A	B	C	D
8 x 32	8.5	31.5	6.3	-
10 x 38	10.3	38	10	-
14 x 51	14.3	51	13	7.5
22 x 58	22.2	58	16	7.5

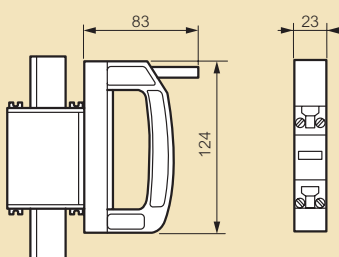
■ Blade type (p. 134)



Size (mm)	00	0	1	2	3	4
A	78	125	135	150	150	200
B	44	62	64	64	61	61
C	52	67	74	74	75	78
D1	30	36	47	50	70	90
D2	-	39	47	50	64	77
E	46	46	52	60	75	107
F	-	14	14	14	14	14
G	2.5	2.5	3	3	2.5	2.5
H	15	15	21	28	36	60
I	6	6	6	6	6	8
J	-	14.5	16	19	23	27
K	-	14.5	14.5	14.5	14.5	14.5
L	59	59	64	72	88	119
M	10	10	10	10	10	10
N	14.5	14.5	14.5	14.5	18	23

Note: Force of striker at the beginning of stroke 1.9 kg and 1 kg at the end according to NF C 63-213

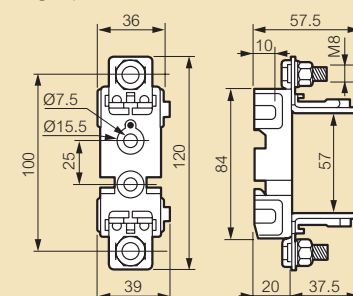
■ Removable handle (p. 133)



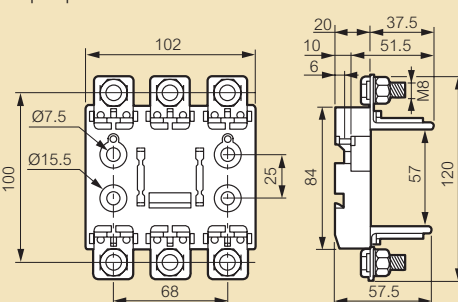
■ Bases for blade type (p. 133)

Size 00

Single pole Cat.Nos 160 01 - 162 00

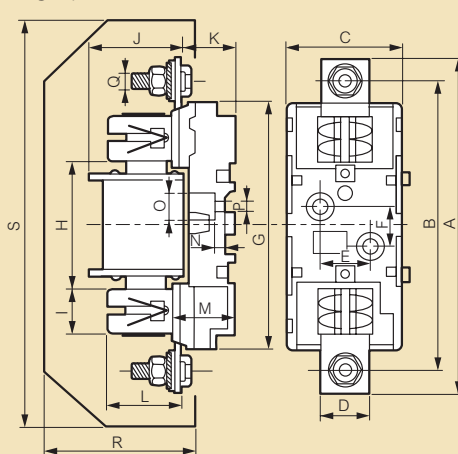


Triple pole Cat.Nos 160 05 - 162 04



Sizes 0 to 4

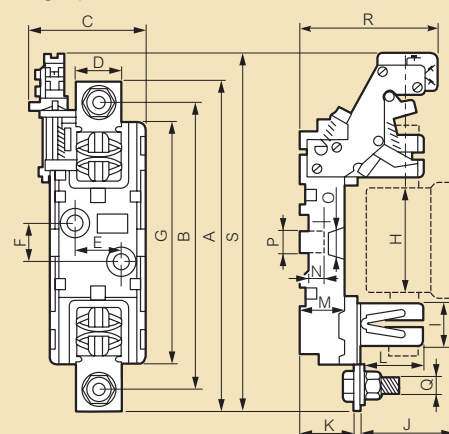
Single pole without micro-switch



Size (mm)	0	1	2	3	4
A	171	200	225	250	320
B	150	175	200	210	270
C	47	59	67	82	114
D	20	25	30	41	51
E	-	30	30	30	45
F	25	25	25	25	30
G	125	150	170	158	220
H	75	80	80	83	98
I	23	28	32	35	50
J	68	68	83	92	125
K	24	35	35	35	40
L	43	46	58	68	93
M	28	38	39	40	40
N	11.5	13.5	13.5	14	14
O	14	20	20	20	28
P	7.5	10.5	10.5	10.5	13
Q	8	10	10	12	16
R	96	107	121	110	138
S	180	224	240	266	336

Size 0 to 4 (continued)

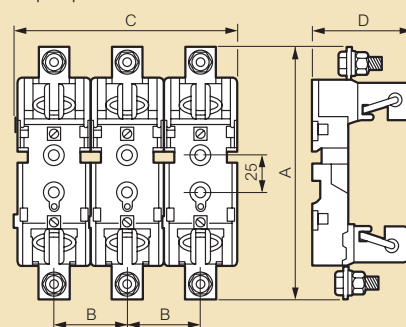
Single pole with micro-switch



Size (mm)	0	1	2	3	4
A	171	200	225	250	320
B	150	175	200	210	270
C	63	72	78	91	114
D	20	25	30	41	51
E	-	30	30	30	45
F	25	25	25	25	30
G	125	150	170	158	220
H	75	80	80	83	98
I	23	28	32	35	50
J	68	68	83	92	125
K	24	35	35	35	40
L	43	46	58	68	93
M	28	38	39	40	40
N	11.5	13.5	13.5	14	14
O	14	20	20	20	28
P	7.5	10.5	10.5	10.5	13
Q	8	10	10	12	16
R	75	85	90	94	105.5
S	198	215	229	242	280

Size 0 - 1 - 2

Triple pole



Size (mm)	0	1	2
A	171	200	225
B	48	62.5	68
C	144	180	204
D	67	81	93

selection charts

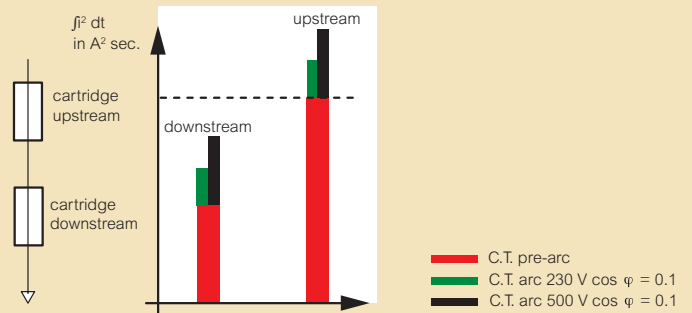
■ How to select a protection system ?

Depending on the type of failure, overload or short-circuit, use 2 series of data

① Overloads: use the operating zone curves of the different protection devices. On the same row, the operating zones should not overlap

② Short-circuits: use the I^2t tables. The total I^2t of the protection system the furthest downstream must be less than the upstream protection pre-arc I^2t

■ Example of good selection



■ Selection between cartridge fuses (according to IEC 60269-2-1)

Upstream rating gG cartridge fuse (A)	Downstream maximum rating determined according to class and voltage to obtain selection	
	aM	gG
2		
4	1	1
6	2	2
8	2	2
10	2	4
12	2	4
16	4	6
20	6	10
25	8	16
32	10	20
35	12	20
40	12	25
50	16	32
63	20	40
80	25	50
100	36	63
125	40	80
160	63	100
200	80	125
250	125	160
315	125	200
400	160	250
500	200	315
630	250	400
800	315	500
1000	400	630
1250	500	800

Upstream rating aM cartridge fuse (A)	Downstream maximum rating determined according to class and voltage to obtain selection	
	aM	gG
2	1	1
4	2	4
6	2	6
8	4	8
10	6	10
12	6	12
16	10	16
20	12	20
25	12	25
32	20	32
36	20	32
40	25	32
50	25	40
63	40	50
80	50	63
100	63	80
125	80	100
160	100	125
200	125	160
250	160	160
315	200	200
400	250	250
500	315	315
630	400	400
800	500	500
1000	630	500
1250	800	630

■ Motor protection

Motor three-phase									Cartridges																	
230 V			400 V			500 V			10 x 38 ratings		14 x 51 ratings		22 x 58 ratings		S. 00 ratings		S. 0 ratings		S. 1 ratings		S. 2 ratings		S. 3 ratings		S. 4 ratings	
kW	Hp	In A	kW	Hp	In A	kW	Hp	In A	gG	aM	gG	aM	gG	aM	gG	aM	gG	aM	gG	aM	gG	aM	gG	aM	gG	aM
0.37	0.5	1.8	0.37	0.5	1.03	0.75	1	1.5	4	2	4	2														
0.75	1	3.5	0.75	1	2	1.5	2	2.6	6	4	6	4														
1.1	1.5	4.4	1.5	2	3.5	2.2	3	3.8	8	4	8	4														
1.8	2.5	7	2.2	3	5	3.7	5	5.9	12	6	12	6														
2.2	3	8.7	3	4	6.6	4	5.5	6.5	16	8	16	8	16													
3	4	11.5	4	5.5	8.5	5.5	7.5	9	20	10	20	10	20													
4	5.5	14.3	5.5	7.5	11.5	7.5	10	12	25	12	25	12	25	25												
5.5	7.5	20	7.5	10	15.5	11	15	18.4		20 ⁽¹⁾	32	20	32	20	32	20										
7.5	10	27	11	15	22	15	20	23		20 ⁽¹⁾	50	25	50	25	50	25										
10	13.5	35	15	20	30	18.5	25	28.5			32	50	32	50	32											
11	15	39	18.5	25	37	25	34	39.4			40	63	40	63	40	63										
15	20	52	22	30	44	30	40	45			50 ⁽¹⁾	80	50	80	50	80										
18.5	25	64	25	34	51	40	54	60				100	63	100	63	100	63									
22	30	75	30	40	60	45	60	65					80	125	80	125	80	125								
25	35	85	37	50	72	51	70	75					80	125	80	125	80	125								
30	40	103	45	60	85	63	109	89					100	160	100	160	100	160								
45	60	147	55	75	105	80	110	112					125 ⁽¹⁾		125	200	125	200	125	200						
55	75	182	75	100	138	110	150	156									160	250	160	250						
75	100	239	90	125	170	132	180	187										200	315	200						
80	160	260	110	150	205	160	220	220										250	400	250						
90	125	295	132	180	245	220	300	310												315						
110	150	356	160	218	300	250	340	360												315						
132	180	425	200	270	370	335	450	472												400						
160	218	520	250	340	475	450	610	608																		
220	300	710	400	550	750	500	680	680																		

(1) 400 V max.

blade cartridge fuses gG and aM types

The gG or aM types protect the conductors of electrical circuits in the event of overbad or short-circuit

gG cartridge fuses:

The selectivity ratio is 1.6 instead of 2

The breaking capacity of 120000 A provides full protection in the most critical situations

aM cartridge fuses:

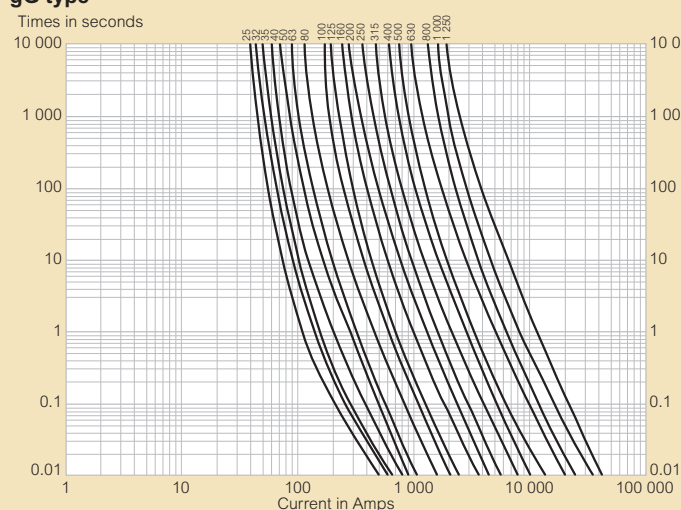
These cartridge fuses must be combined with a low-overload thermal protection device

The breaking capacity of 100000 A from size 10 x 38 upwards provides full protection in the most critical situations

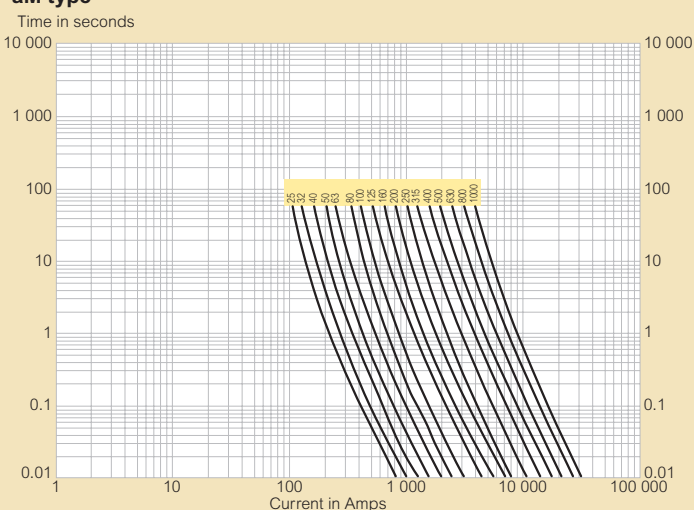
Cylindrical industrial cartridge fuses can be used to protect DC circuits supplied at up to 48 V max.

Rupture capacity curves

gG type

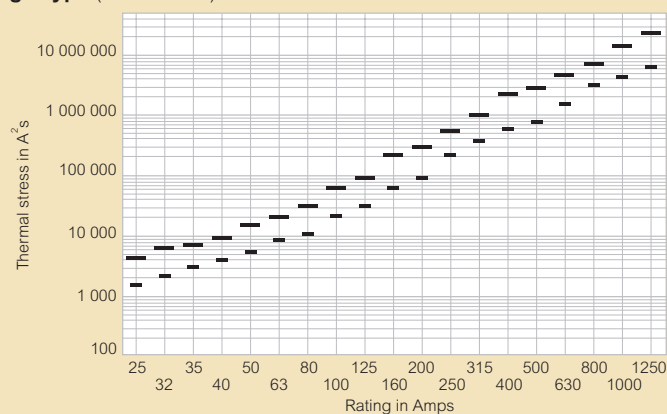


aM type



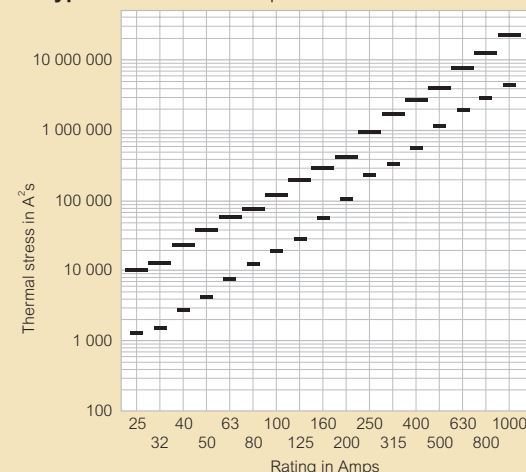
Thermal stresses ($\int I^2 dt$)

gG type (for 500 V~)

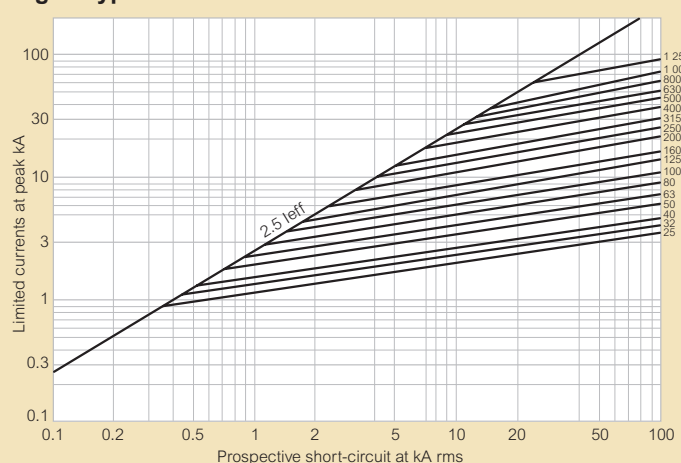


- Total maximum thermal stress for critical current
- - Pre-arc thermal stress for critical current

aM type for 500 V~ - except 1250 A for 400 V



gG⁽¹⁾ type limitation curve



(1) For aM cartridge fuses, see technical data sheets in the Legrand e-catalogue

Consumption in watts when hot, at rated current

Fuse ratings (A)	Cartridge fuses			
	gG		aM	
	Size 00	Size 0 to 4	Size 00	Size 0 to 4
25	2.1		1.3	
32	3		1.8	
35	3			
40	3.3	4.2	2.5	
50	4.5	5.5	3	
63	6	6.5	3.6	3.9
80	7	8.5	5.2	5.5
100	7.5	9.5	6	6.5
125	13	12	7	8.5
160	15	15		11.5
200		19		13.5
250		23		17
315		24		24
400		33		28
500		36		34
630		45		41
800		51		49
1000		77		70
1250		80		75