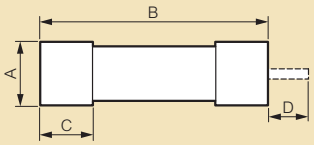
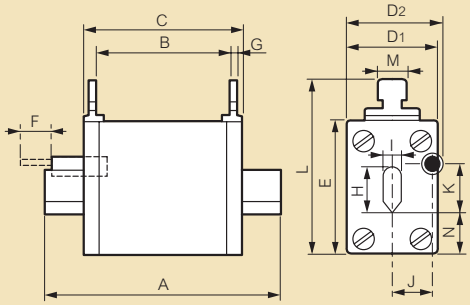
■ HRC cylindrical



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

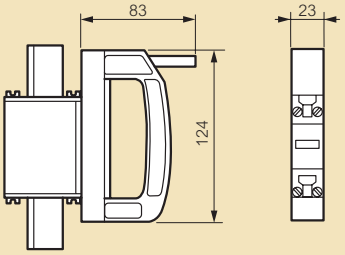
■ Blade type



Size (mm)	00	0	1	2
A	78	125	135	150
B	44	62	64	64
C	52	67	74	74
D1	30	36	47	50
D2	-	39	47	50
E	46	46	52	60
F	-	14	14	14
G	2.5	2.5	3	3
H	15	15	21	28
I	6	6	6	6
J	-	14.5	16	19
K	-	14.5	14.5	14.5
L	59	59	64	72
M	10	10	10	10
N	14.5	14.5	14.5	14.5

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

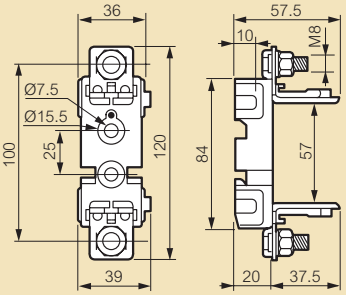
■ Removable handle



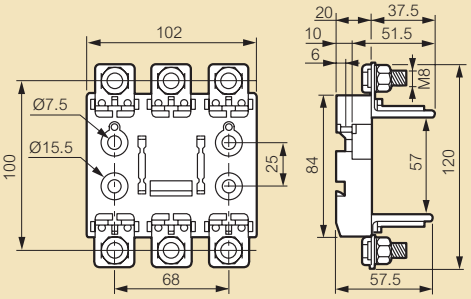
■ Bases for blade type cartridge fuses

Size 00

Single pole Cat.Nos 0 160 01 - 0 162 00

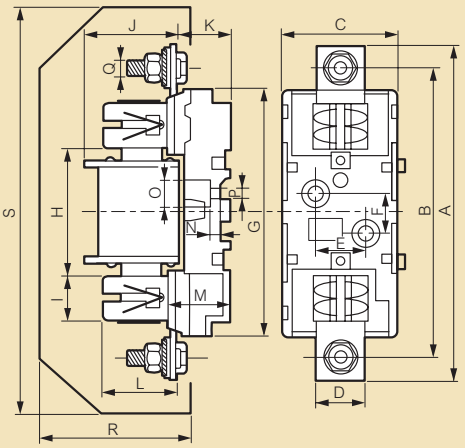


Triple pole Cat.Nos 0 160 05 - 0 162 04



Sizes 0 - 1 - 2

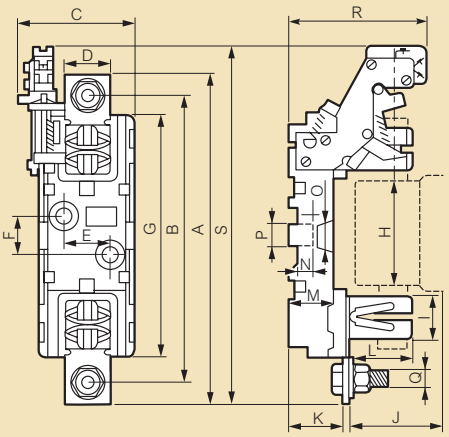
Single pole without micro-switch



Size (mm)	0	1	2
A	171	200	225
B	150	175	200
C	47	59	67
D	20	25	30
E	-	30	30
F	25	25	25
G	125	150	170
H	75	80	80
I	23	28	32
J	68	68	83
K	24	35	35
L	43	46	58
M	28	38	39
N	11.5	13.5	13.5
O	14	20	20
P	7.5	10.5	10.5
Q	8	10	10
R	96	107	121
S	180	224	240

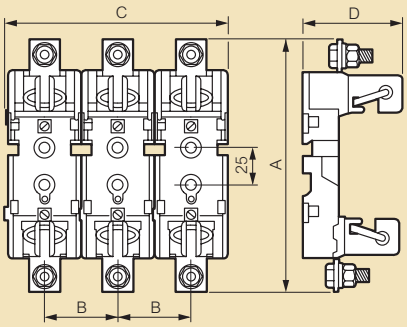
Size 0 - 1 - 2 (continued)

Single pole with micro-switch



Size (mm)	0	1	2
A	171	200	225
B	150	175	200
C	63	72	78
D	20	25	30
E	-	30	30
F	25	25	25
G	125	150	170
H	75	80	80
I	23	28	32
J	68	68	83
K	24	35	35
L	43	46	58
M	28	38	39
N	11.5	13.5	13.5
O	14	20	20
P	7.5	10.5	10.5
Q	8	10	10
R	75	85	90
S	198	215	229

Triple pole



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

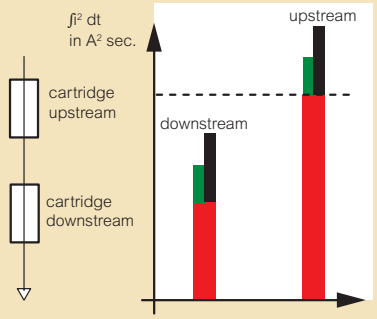
■ How to select a protection system ?

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 $\int i^2t$ tables. The total $\int i^2t$ of the protection system the furthest downstream must be less than the upstream protection pre-arc $\int i^2t$

■ 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

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

■ 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	1.03	0.75	1	1.5	4	**2**	4	**2**														
0.37	0.5	1.8	**0.75**	1	2	1.5	2	2.6	6	**4**	6	**4**														
0.75	1	3.5	**1.5**	2	3.5	2.2	3	3.8	8	**4**	8	**4**														
1.1	1.5	4.4	**2.2**	3	5	3.7	5	5.9	12	**6**	12	**6**														
1.8	2.5	7	**3**	4	6.6	4	5.5	6.5	16	**8**	16	**8**	16													
2.2	3	8.7	**4**	5.5	8.5	5.5	7.5	9	20	**10**	20	**10**	20													
3	4	11.5	**5.5**	7.5	11.5	7.5	10	12	25	**12**	25	**12**	25		25											
4	5.5	14.3	**7.5**	10	15.5	11	15	18.4		**20**(1)	32	**20**	32	**20**	32	**20**										
5.5	7.5	20	**11**	15	22	15	20	23		**20**(1)	50	**25**	50	**25**	50	**25**										
7.5	10	27	**15**	20	30	18.5	25	28.5				**32**	50	**32**	50	**32**										
10	13.5	35	**18.5**	25	37	25	34	39.4				**40**	63	**40**	63	**40**	63									
11	15	39	**22**	30	44	30	40	45				**50**(1)	80	**50**	80	**50**	80									
15	20	52	**25**	34	51	40	54	60					100	**63**	100	**63**	100	**63**								
18.5	25	64	**30**	40	60	45	60	65						**80**	125	**80**	125	**80**	125							
22	30	75	**37**	50	72	51	70	75						**80**	125	**80**	125	**80**	125							
25	35	85	**45**	60	85	63	109	89						**100**	160	**100**	160	**100**	160							
30	40	103	**55**	75	105	80	110	112						**125**(1)		**125**	200	**125**	200	**125**	200					
45	60	147	**75**	100	138	110	150	156										**160**	250	**160**	250					
55	75	182	**90**	125	170	132	180	187												**200**	315	**200**				
75	100	239	**110**	150	205	160	220	220												**250**	400	**250**				
80	160	260	**132**	180	245	220	300	310														**315**				
90	125	295	**160**	218	300																	**315**				
110	150	356	**200**	270	370	250	340	360														**400**				
132	180	425	**250**	340	475	335	450	472																**500**		
160	218	520	**315**	430	584	450	610	608																**630**		
220	300	710	**400**	550	750	500	680	680																		**800**

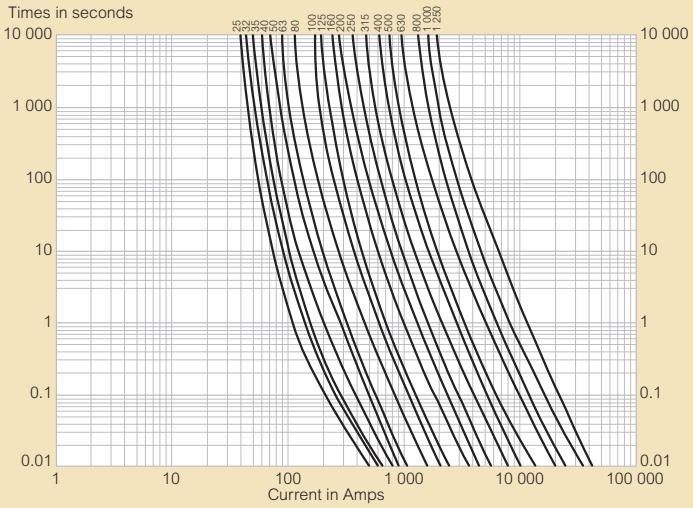
1: 400 V max.

blade cartridge fuses gG and aM types

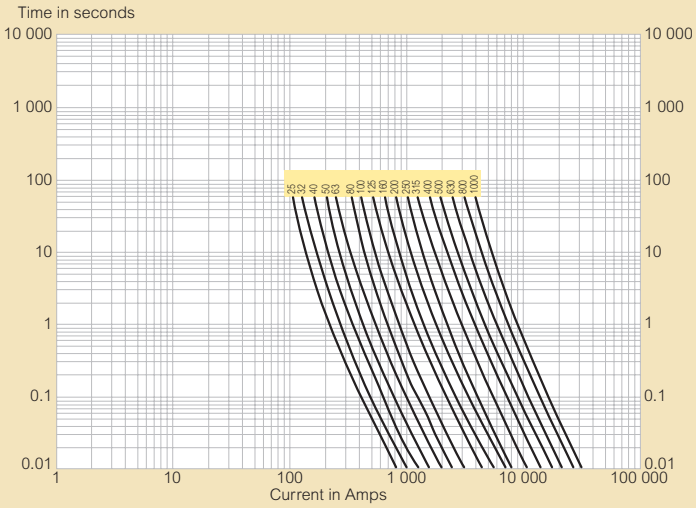
The gG or aM types protect the conductors of electrical circuits in the event of overbad or short-circuit
gG cartridge fuses:
The selectivity ratio is 1.6 instead of 2
The breaking capacity of 120000 A provides full protection in the most critical situations
aM cartridge fuses:
These cartridge fuses 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

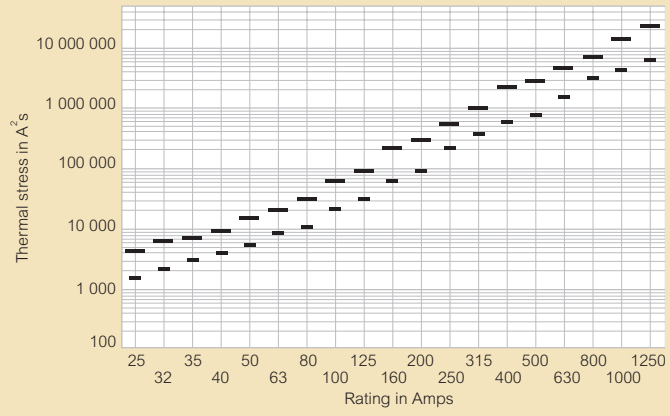


aM type



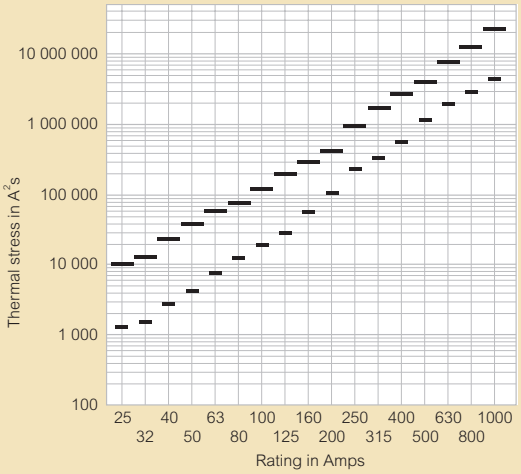
■ Thermal stresses ($\int I^2dt$)

gG type (for 500 V~)

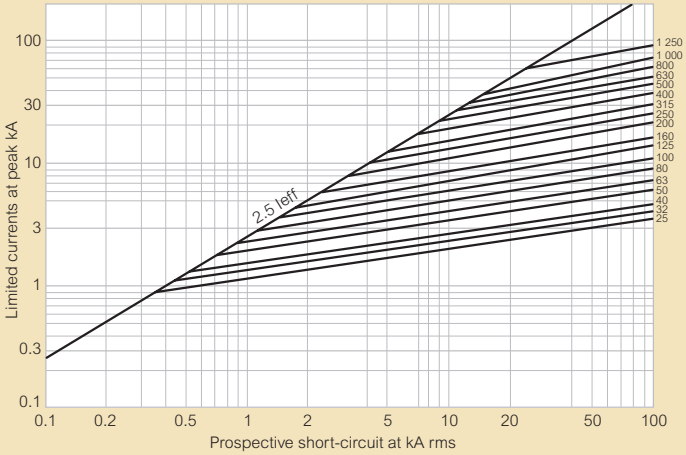


Total maximum thermal stress for critical current
Pre-arc thermal stress for critical current

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