

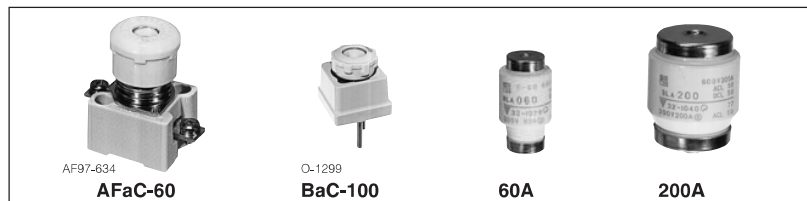
AFaC and BaC type current-limiting fuses

600V AC/DC, 3–400 Amps

■ Description

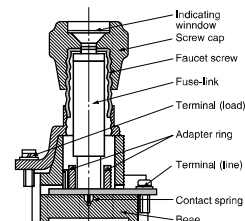
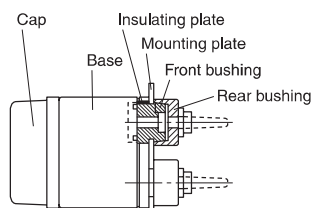
The AFaC and BaC type have an excellent current-limiting performance with an interrupting capacity as high as 100kA at 600V AC/DC. They are suitable for power circuits and control circuit applications including general power cubicles, distribution equipment, motor starters, load centers and control centers. The fuse assembly comprises base, screw cap, fuse link and adapter ring. The universal surface mounting terminals are provided with screws while the rear connection type are supplied with stud bolts. The fuse link can easily and safely be replaced by simply removing a screw cap.

The diameter of the solid ferrule fuse link varies according to the rated current. The higher the rating, the greater the diameter. As a safety feature the screw cap can only be tightened when the fuse link matches with the adapter ring located inside the base. This prevents the cap from being tightened even when fuse



Rear connection type

Surface connection type



Thickness of mounting plate: 3.2mm or less

link with larger ratings is inserted. The operating blown indication tip can be observed through the screw cap window. The tip color indicates the current rating – for instance, pink indicates 3A and red 10A. The tip is ejected to show that the fuse has blown. Both the base and the screw cap are made from a high class

porcelain insulating material to ensure trouble-free operation. The fuse can be replaced without isolating the circuit. Since the fuse link is housed in a highly reliable porcelain barrel it is strong mechanically and thermally with no danger of explosion or production of noxious gases when blown.

■ Components of AFaC and BaC type

Parts	 FA776		 SD-39	 SD-39	 SDQ 0091M	 SD-63	
Rated current (A)	Fuse-link		Screw cap	Base Surface connection Rear connection		Adapter ring	
	Type	Color of indicator	Type	Type	Type	Type	Color of adapter ring
3	BLA003	Pink	Pa30	AFa30	Ba30	R3	Pink
5	BLA005	Brown				R5	Brown
10	BLA010	Red				R10	Red
15	BLA015	Gray				R15	Gray
20	BLA020	Blue				R20	Blue
30	BLA030	Violet				—	—
40	BLA040	Black	Pa60	AFa60	Ba60	R40	Black
60	BLA060	Light red				—	—
75	BLA075	Silver	Pa100	AFa100	Ba100	R75	Silver
100	BLA100	Red				—	—
125	BLA125	Yellow	Pa200	AFa200	Ba200	R125	Yellow
150	BLA150	Light red				R150	Light red
200	BLA200	Blue				—	—
250	BLA250	Green	Pa400	AFa400	Ba400	R250	Green
300	BLA300	White				R300	White
400	BLA400	Black				—	—

Minimum ordering quantity

• Fuse-link	BLA003 to 030	100 pcs.	• Base	AFa30	Ba30	100 pcs.
	BLA 040, 060	20		AFa60	Ba60	50
	BLA 075 to 200	10		AFa100	Ba100	10
	BLA 250 to 400	5		AFa200	Ba200	5
• Screw cap	Pa30	100 pcs.	• Adapter ring	AFa400	Ba400	1
	Pa60	50		R3 to 20, R75		100 pcs.
	Pa100	10		R40, R125 to 300		50
	Pa200	5				
	Pa400	1				

Low Voltage Fuses AFaC and BaC types

■ Specifications

Fuse-link Type	Rated current (A)	Rated voltage	Interrupting capacity (kA)	Max. interrupting $I^2 t$ (Amp ² x sec.)
BLA003	3	600V AC DC	100	28
BLA005	5			110
BLA010	10			500
BLA015	15		100	750
BLA020	20			1.3×10^3
BLA030	30			5×10^3
BLA040	40		100	9.2×10^3
BLA060	60			27×10^3
BLA075	75			70×10^3
BLA100	100		100	100×10^3
BLA125	125			290×10^3
BLA150	150			390×10^3
BLA200	200		50	500×10^3
BLA250	250			1800×10^3
BLA300	300			2200×10^3
BLA400	400		20	3000×10^3

■ Ordering information

Specify the following:
1. Type number

Fuse-link
BLA 003

Rated current
Ex. 003 : 3 Amps
075 : 75 Amps
200 : 200 Amps

Fuse-link

Base
AFa 30

Frame size
30: For 3 to 30A
60: For 40, 60A
100: For 75, 100A
200: For 125, 150, 200A
400: For 250, 300, 400A

Connection
AFa: Surface
Ba : Rear

Screw cap
Pa 30

Frame size
30: For 3 to 30A
60: For 40, 60A
100: For 75, 100A
200: For 125, 150, 200A
400: For 250, 300, 400A

Screw cap

■ Mounting on steel panel

To mount a rear connection base Ba on a steel panel, an insulating plate and some bushings are used. Kits for 30, 60, 100, 200 and 400A base are available. Please specify your base type when ordering.

Two front bushings are used with 100, 200 and 400A base only.

Example: Insulating plate and bushings for Ba30



■ Tightening tool

It is recommended that fuses with ratings of over 100A be tightened with a special tool since there is the possibility of overheating if the screw cap is not adequately tightened. This exclusive use tool is sold separately.

Type	Screw cap type
Pa100H	Pa100
Pa200H	Pa200
Pa400H	Pa400

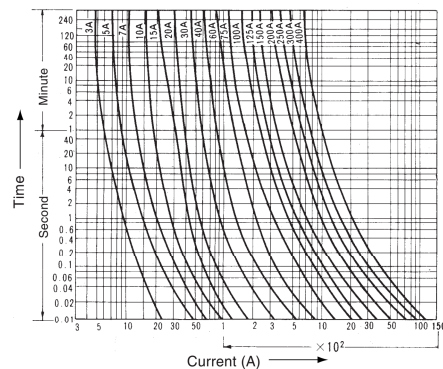


AF90-316

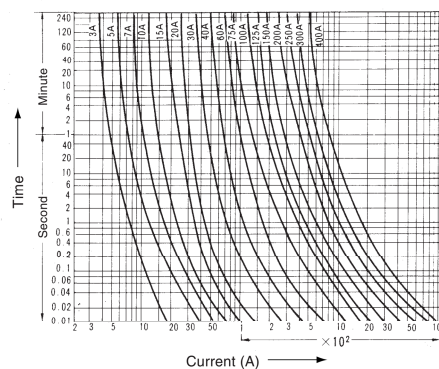
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■ Characteristic curves

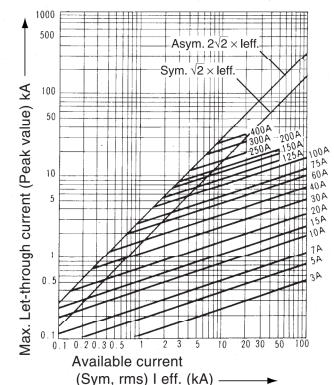
Melting time-current characteristic



Permissible time-current characteristic



Current-limiting characteristic

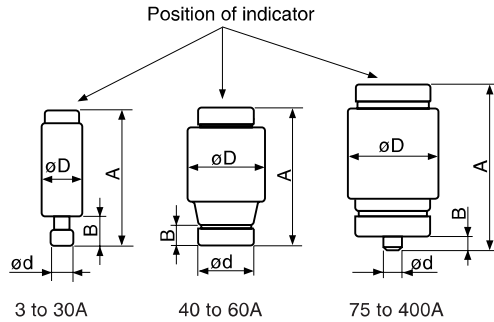


Low Voltage Fuses

AFaC and BaC types

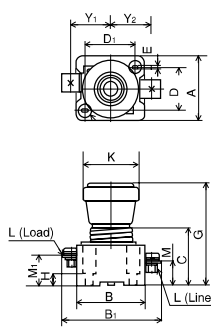
■ Dimensions, mm

● Fuse-link

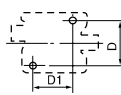


● Base and cap

Surface connection AFaC-3 to 200

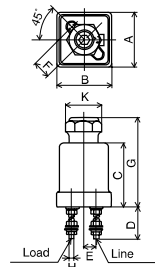


Panel drilling

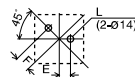


Type	A	B	B1	C	D	D1	øE	G	H	K	L	M	M1	Y1	Y2	Mass (g)
AFaC-3 to 30	34	42	55	46.5	24	22	5	78.5	10	32	M5	18	24	22	22	100
AFaC-40 to 60	52	59	82	51	34	38	5.5	88	10	47	M6	21	26	33	33.5	290
AFaC-75 to 100	67	87	125	71	40	64	7	118	28	72	M8	27.5	29.5	50	50	950
AFaC-125 to 200	77	107	150	73	51	82	7	120	28	87	M10	34	35	60	59.5	1465

Rear connection BaC-3 to 200



Panel drilling

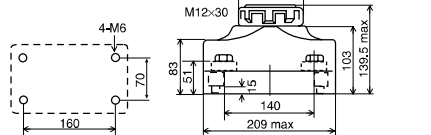


Type	A (max.)	B (max.)	C	D	E	F	G (max.)	H	K (max.)	øL	Mass (g)
BaC-3 to 30	47	47	52	62	10	14	78.5	M5	32	6(14)	220
BaC-40 to 60	66	66	54	65	18	22.5	87.5	M6	47	7(14)	470
BaC-75 to 100	85.5	85.5	71	70	22	30	112.5	M8	72	9(25)	1200
BaC-125 to 200	112	112	78	75	28	39	120	M10	87	11(25)	2115

Surface connection AFaC-250 to 400

Mass: 4.37kg

Panel drilling



Rear connection BaC-250 to 400

Mass: 4.76kg

Panel drilling

