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AC FUSE HOLDERS

- Version without indicator: 1P, 1P+N, 2P, 3P, 3P+N
- Version with indicator: 1P
- For fuses 10x38, 14x51 and 22x58mm IEC class gG or aM.
- IEC rated current: 32A, 50A, 100A
- IEC rated voltage: 690VAC.



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AC FUSE HOLDERS CLASS CC FOR THE NORTH AMERICAN MARKET

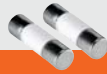
- Version without indicator: 1P, 2P, 3P
- Version with indicator: 1P
- For 10x38mm UL/CSA class CC fuses
- IEC rated current: 30A
- IEC rated voltage: 600VAC.



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DC FUSE HOLDERS FOR PHOTOVOLTAIC APPLICATIONS

- Version without indicator: 1P, 2P
- Version with indicator: 1P, 2P
- For 10x38mm IEC class gPV fuses
- IEC rated current: 32A
- IEC rated voltage: 1000VDC
- IEC utilisation category: DC20B.



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DC FUSES FOR PHOTOVOLTAIC APPLICATIONS

- 10x38mm, IEC class gPV
- Rated current: 20A
- Rated voltage: 1000VDC.

Fuse holders



FB01 B... FB01 B 1PL

Order code	Pole arrangement	Status indicator	DIN size	Qty per pkg	Wt
			n°	n°	[kg]

For 10x38mm fuses.
IEC 32A rated current at 690VAC.

FB01 B 1P	1P	—	1	12	0.062
FB01 B 1PL	1P	YES	1	12	0.064
FB01 B 1N	1P+N	—	2	6	0.127
FB01 B 2P	2P	—	2	6	0.128
FB01 B 3P	3P	—	3	4	0.185
FB01 B 3N	3P+N	—	4	3	0.247

Operational characteristics

- IEC rated voltage Un: 690VAC
- IEC rated current In: 32A
- IEC utilisation category: AC22B 500V, AC21B 690V
- Suitable for IEC fuse class: gG and aM
- IEC degree of protection IP20.

Reference standards

Certifications obtained: EAC.
Compliant with standards: IEC/EN 60947-1, IEC/EN 60947-3, IEC/EN 60269-1, IEC 60269-2.

Fuse holders UL Listed and CSA Certified for class CC fuses for the North American market



FB01 G... FB01 G 1PL

Order code	Pole arrangement	Status indicator	DIN size	Qty per pkg	Wt
			n°	n°	[kg]

For 10x38mm fuses.
IEC 30A rated current at 600VAC.

FB01 G 1P	1P	—	1	12	0.070
FB01 G 1PL	1P	YES	1	12	0.072
FB01 G 2P	2P	—	2	6	0.140
FB01 G 3P	3P	—	3	4	0.210

NOTE: UL Listed and CSA certified as "Fuseholders, Cartridge Fuse" for use with Class CC fuses. Interrupting rating 200,000 Amps rms symmetrical. Voltage rating 600V. Current rating 30A.

Operational characteristics

- IEC rated voltage Un: 600VAC
- IEC rated current In: 30A
- IEC utilisation category: AC22B 500V, AC21B 690V
- Suitable for UL/CSA fuse class: CC
- IEC degree of protection IP20.

Certifications and compliance

Certifications obtained: UL Listed for USA (UL - File E343395) and CSA certified for Canada only (File 252040 class 6225), EAC.
Compliant with standards: IEC/EN 60269-1, IEC 60269-2, IEC/EN 60947-1, IEC/EN 60947-3, UL 4248-1, UL 4248-4, CSA C22.2 n°4248.1, CSA C22.2 n°4248.4.

Accessories



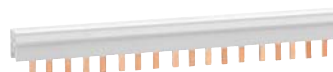
FBX 00



FBX 01
FBX 03



FBX 02



P1X 90 33



P1X 91 33



P1X 92 01



P1X 92 10



P1X 92 02

Order code	Description	Qty per pkg	Wt [kg]
		n°	[kg]
FBX 00	Coupling clip for 10x38, 14x51 and 22x58mm sizes	100	0.003
FBX 01	Coupling pin for 10x38mm size type FB01 A1M, FB01 B1P and FB01 B1PL only	100	0.005
FBX 02	Coupling pin for 14x51 and 22x58mm sizes	100	0.008
FBX 03	Coupling pin for 10x38mm size types FB01 F, FB01 G, FB01 D only	100	0.005
For FB01 F, FB01 A1M, FB01 B and FB01 G types, AC duty.			
P1X 90 31	Single-pole supply busbar	10	0.160
P1X 90 32	Two-pole supply busbar	10	0.320
P1X 90 33	Three-pole supply busbar	10	0.474
P1X 90 34	Four-pole supply busbar	10	0.600
P1X 90 90	P1RC4P + 8 P1MB1MB supply busbar	10	0.158
P1X 91 30	Kit of 5 isolating covers for unused busbar terminals	10	0.030
P1X 91 31	End cap for P1X9031	50	0.001
P1X 91 32	End cap for P1X9032	50	0.001
P1X 91 33	End cap for P1X9033	50	0.001
P1X 91 34	End cap for P1X9034	50	0.001
P1X 92 01	Single-pole terminal for busbar supply; conductor cross section 25mm ² max.	25	0.010
P1X 92 10	Single-pole terminal for supplying busbar; conductor cross section 25mm ² max.; left entry	25	0.010
P1X 92 02	Single-pole terminal for busbar supply; conductor cross section 50mm ² max.	25	0.022

General and operational characteristics

SINGLE-POLE SUPPLY BUSBAR

- Rated operational voltage Ue: 1000V
- Central point of power supply: 100A max.
- Side point of power supply: 63A max.
- Spacing: 17.5mm/0.69"
- Busbar section: 10mm²
- For paralleling connection
- For 57 modules, 1000mm/39.37" long (57 1P breakers)
- Length can be cut in shorter sections.

TWO-POLE, THREE-POLE AND FOUR-POLE SUPPLY BUSBARS

- Rated operational voltage Ue: 690V
- Central point of power supply: 100A max.
- Side point of power supply: 63A max.
- Pitch: 18mm/0.71"
- Busbar section: 10mm²
- For paralleling connection
- Two-pole: for 56 modules, 1000mm/39.37" long (28 2P fuseholders)
- Three-pole: for 57 modules, 1012mm/39.84" long (19 3P fuseholders)
- Four-pole: for 56 modules, 1000mm/39.37" long (14 4P fuseholders)
- Length can be cut in shorter sections.

Certification and compliance

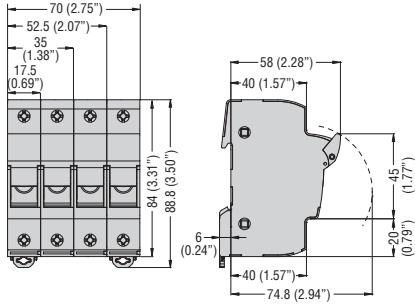
Certifications obtained: EAC.

- ① See technical characteristics under derating factor of FB01... type for derating factor.

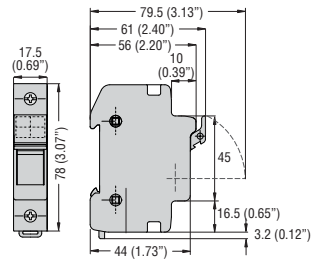
12 Fuse holders and fuses

Dimensions [mm (in)]

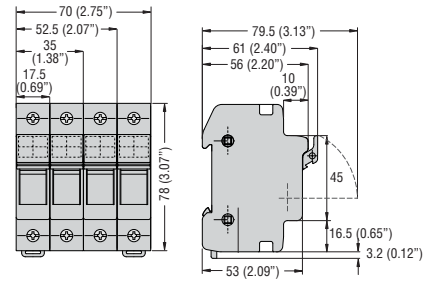
FB01 F... FB01 G... FB01 D...



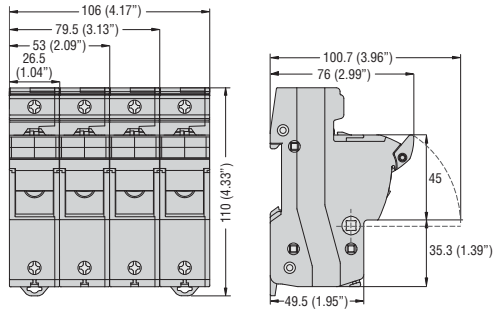
FB01 A1M



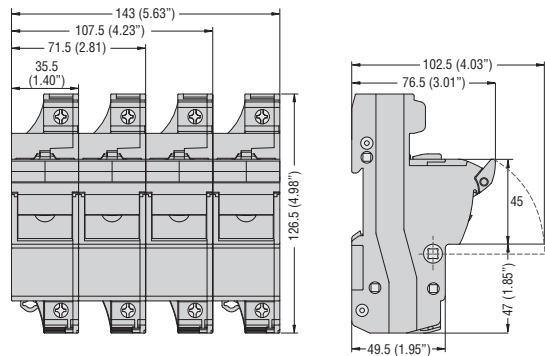
FB01 B...



FB02 A...

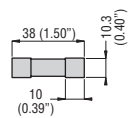


FB03 A...

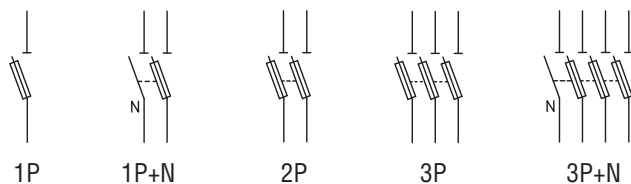


FUSES

FE01 D 0...



Wiring diagrams



TYPE	FB01 F... - FB01 A1M	FB01 B...	FB02 A...	FB03 A...	FB01 G...	FB01 D...
Range	AC				Class CC (AC)	DC
IEC maximum rated current In	32A		50A	100A [Ⓜ]	30A	32A
IEC maximum rated voltage Un	690VAC; 400VAC [Ⓛ]	690VAC			600VAC	1000VDC
IEC utilisation category	AC22B 500V; AC21B 690V; AC22B 400V [Ⓛ]			AC21B 690V	AC22B 500V; AC21B 690V	DC20B 1000VDC
Maximum power dissipation	3W		5W	9.5W	3W	4W
Derating factor of current In for different ambient temperatures	20°C	1				
	30°C	0.95				
	40°C	0.9				
	50°C	0.8				
	60°C	0.7				
	70°C	0.5				
Derating factor of current In for side-by-side fuse holders - number of poles	1-4	1				
	5-6	0.8				
	7-9	0.7				
	≥10	0.6				
Voltage for status indicator	120...690VAC		230...690VAC		120...600VAC	350...1000VDC

CONNECTIONS

Maximum tightening torque	2.5Nm; 2Nm [Ⓛ] / 22lbin		3Nm / 26lbin	4Nm / 35lbin	2.5Nm / 22lbin	
Maximum conductor cross section	flexible/stranded	1x16mm ² ; 1x6mm ² [Ⓛ] / 8AWG	1x25mm ² / 6AWG	1x35mm ² / 2AWG	1x16mm ² / 8AWG	1x16mm ² / 8AWG
	rigid/solid	1x16mm ² ; 1x10mm ² [Ⓛ] / 8AWG	1x35mm ² / 8AWG	1x50mm ² / 1AWG	1x16mm ² / 8AWG	1x16mm ² / 8AWG

AMBIENT CONDITIONS

Operating temperature	-20...+70°C
Storage temperature	-40...+80°C
Maximum altitude	3,000m
Operation position	Any
Fixing	On 35mm DIN rail (IEC/EN 60715)

[Ⓛ] Values valid only for FB01 A 1M type.

[Ⓜ] Use with gG/aM class 125A fuses, not dissipating more than 12W power.

TECHNICAL CHARACTERISTICS FOR FE01 D... FUSES

TYPE	Rated current [A]	Power consumption at 0.7 In [W]	Power consumption at In [W]	Prearcing I ² t [A ² s]	Total I ² t at 1000VDC [A ² s]
FE01 D 00200	2	0.78	1.45	0.62	1
FE01 D 00400	4	0.64	1.57	6.9	11
FE01 D 00600	6	0.76	1.84	24	38
FE01 D 00800	8	0.8	1.92	62	99
FE01 D 01000	10	0.94	2.2	10	48
FE01 D 01200	12	0.98	2.4	18	94
FE01 D 01600	16	1.1	2.7	46	110
FE01 D 02000	20	1.2	2.9	118	282

TIME-CURRENT CHARACTERISTICS FOR FE01 D... FUSES

