

1000Vdc modular ferrule fuse blocks for photovoltaic applications

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SERIES

Modular PV fuse blocks simplify design and installation while reducing footprint



New snap-together, modular photovoltaic ferrule fuse blocks speed up installation, increase flexibility and enhance safety.

Product description:

Eaton's Bussmann® series ferrule fuse blocks feature a modular, low profile design that allows assembly of the required poles at point of use.

The industry-first open style PV fuse blocks are available for 10x38mm (13/32" x 1-1/2") photovoltaic fuses. They are available in 1-, 2- and 3-pole configurations and feature a compact footprint, consuming minimal panel space.

Additionally, their low temperature rise makes them ideal for installation in high ambient environments.

Features and benefits:

- Listed to UL 4248-18 for photovoltaic applications.
- Modular, snap-together design provides tool-less assembly of multiple pole blocks to save inventory and reduce assembly time.
- DIN-Rail and panel mount versatility allows one product to be used for multiple applications and lowers inventory cost.
- Optional see-through cover enhances safety with IP20 finger-safe protection, lockout/tagout capability and open circuit indication.
- Easy circuit identification with available universal marker labels for fuse block covers.



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Specifications

Ratings:

- Volts 1000Vdc
- Amps up to 30A
- Withstand 33kA

Agency information:

- UL Listed E348242-IZMR
- CSA Component Acceptance 47235-6225-01
- RoHS compliant

Flammability ratings:

- Blocks — UL 94V0, self-extinguishing
- Covers — UL 94HB, self-extinguishing

RoHS

Materials:

- Base — Thermoplastic
- Terminals — Tin-plated bimetallic copper
- Covers — Thermoplastic

Operating and storage temperature range:

- Blocks -40°C to +120°C
- Non indicating covers -40°C to +120°C
- Indicating covers -20°C to +90°C

Wire:

- Box lug terminal — CU/AL, 75/90°C
- All other terminals — CU, 75/90°C

Clear IP20 finger-safe cover with optional indication
Enhanced safety
Speeds troubleshooting

Test probe holes
Ease of maintenance

Universal marker label
Ease of circuit identification

Fully modular design
Fewer SKUs to manage
Lower inventory cost

Patented lockout/tagout
Enhanced safety
Ease of maintenance

DIN-Rail and panel mount flexibility
More mounting flexibility
Easier to install

Compact footprint
Consumes less panel space

Table 1. Terminal specifications

Terminal type	Wire range	Wire temp rating	AWG	Torque lb-in (N·m)
Box lug ("CR" Option)	CU 2-14, AL 2-8	75/90°C	CU 2-3	50 (5.6)
			CU 4-6	45 (5.1)
			CU 8-14	35 (4.0)
			AL 2-6	50 (5.6)
			AL 8	40 (4.5)
Screw (S)	CU 10-18	75/90°C	10-18	20 (2.3)

Table 2. Recommended covers

Cover part numbers	
Indicating	Non indicating
CVRI-CCM	CVR-CCM

Table 3. Catalog numbers

Terminal type			
#10-32 Phil-slot screw	Box lug	Poles	Fuse class
BPVM-1S	BPVM-1C	1	10x38 (13/32" x 1-1/2") gPV and PV
BPVM-2S	BPVM-2C	2	10x38 (13/32" x 1-1/2") gPV and PV

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