

Three-pole IEC Class II surge arresters for 230V, 400V and 690V TN-C wind power systems



Remote contact signaling available

easyID™ local visual status indication

Catalog symbol:

- BSPM_WE
- BSPM_WER

Description:

Eaton's Bussmann™ series three-pole IEC Class II modular surge arresters feature local, *easyID™* visual indication and optional remote contact signaling. The unique module locking system fixes the protection module to the base part. Modules can be easily replaced without tools by simply depressing the release buttons. Integrated mechanical coding between the base and protection module ensures against installing an incorrect replacement module.

TN-C system arresters

The features of these three-pole devices are for use as a single device.

Optional remote contact signaling

The three-pole terminal remote contact signaling option has a floating changeover contact for use as a break or make contact, according to circuit concept.

Specifications:

System volts

- 230Vac
- 400Vac
- 690Vac

System types

- TN-C

Agency information

- CE
- KEMA
- RoHS compliant

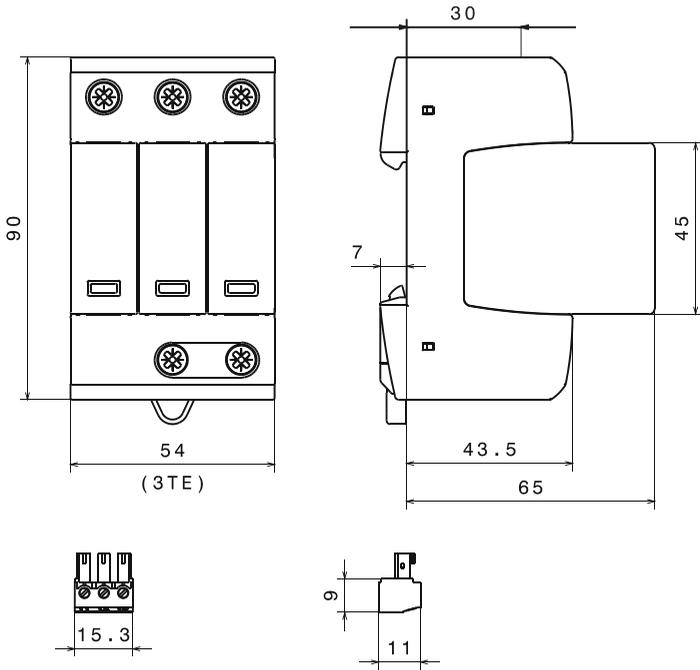
Mounting

- 35mm DIN-Rail

Warranty

- Five years

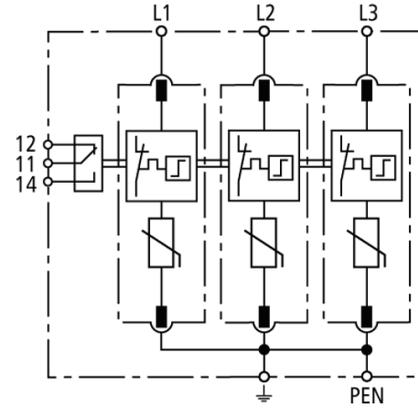
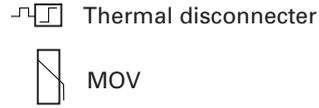
Dimensions - mm:



Shown with optional remote contact signaling.

Module circuit diagrams:

Shown with optional remote contact signaling.



BSPM3230WE(R)
BSPM3400WE(R)
BSPM3690WE(R)

Ordering information:

| System voltage (50-60Hz) / poles | 230V / 3 | 400V / 3 | 690V / 3 |
|---|----------------------|-------------|-------------|
| Max. Continuous Operating Voltage (MCOV) $[U_c]$ AC (50-60Hz) | 275V | 440V | 600V |
| Catalog numbers (base + modules) | W/O remote signaling | BSPM3230WE | BSPM3400WE |
| | W/ remote signaling | BSPM3230WER | BSPM3400WER |
| Replacement modules | BPM275WE | BPM440WE | BPM750WE |

| Specifications | | | |
|---|----------------|---|---------------|
| Line system type | | TN-C | TN-C |
| Nominal AC voltage $[U_N]$ | | 230 / 400V | 400 / 690V |
| Rated varistor voltage $[U_{mov}]$ | | 275V | 440V |
| Nominal discharge current (8/20 μ s) $[I_n]$ | | 20kA | 20kA |
| Max. discharge current (8/20 μ s) $[I_{max}]$ | | 40kA | 40kA |
| Voltage protection level | $[U_p]$ | $\leq 1.25kV$ | $\leq 2kV$ |
| | at 5kA $[U_p]$ | $\leq 1kV$ | $\leq 1.7kV$ |
| Response time $[t_A]$ | | ≤ 25 ns | ≤ 25 ns |
| Max. mains-side overcurrent protection | | 125A gG | 125A gG |
| Short-circuit withstand capability for max. mains-side overcurrent protection (ISCCR) | | 50kArms | 25kArms |
| Temporary Overvoltage (TOV) $[U_T]$ | Withstand | 335V / 5 sec. | 580V / 5 sec. |
| | Safe failure | — | — |
| SPD according to | | EN 61643-11 Type 2, IEC 61643-11 Class II | |
| Operating environment $[T_U]$ | | -40°C to +80°C, 5% to 95% RH | |
| Operating state/fault indication | | Green (good) / Red (replace) | |
| Number of ports | | 1 | |
| Cross-sectional area | Min. | 1.5mm ² / 14AWG solid / flexible | |
| | Max. | 35mm ² / 2AWG stranded — 25mm ² / 4AWG flexible | |
| Mounting | | 35mm DIN-Rail per EN 60715 | |
| Enclosure material | | Thermoplastic, UL 94V0 | |
| Location category | | Indoor | |
| Degree of protection | | IP20 (built-in) | |
| Capacity (DIN 43880) | | 3 Mods. | |
| Agency information | | KEMA | |
| Product warranty | | Five years* | |

| Remote contact signaling | | | |
|--|----|--|--|
| Remote contact signaling type | | Changeover contact | |
| Switching capacity (Volts/Amps) | AC | 250V / 0.5A | |
| | DC | 250V / 0.1A; 125V / 0.2A; 75V / 0.5A | |
| Conductor ratings and cross-sectional area | | 60/75°C max. 1.5mm ² / 14AWG solid / flexible | |
| Ordering information | | Order from catalog numbers above | |

* See Eaton Bussmann series SPD limited warranty statement (3A1502) for details at www.cooperbussmann.com/surge.

Recommended Bussmann series NH DIN back up fuses

| Size | Fuse catalog number |
|------|---------------------|
| 00 | 100NHG00B-690 |
| 00 | 125NHG00B-690 |

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