Surge Protection Made Simple™ for Wind Power Applications
IEC Class II Surge Arresters for 230 Volt, TN & TT Systems

Description
The Cooper Bussmann® IEC Class II 230 volt, two-pole, 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 System Arrester
The features of these two-pole device are for use as a single device.

TT System Arrester
For use as a single device in a 1-phase TT system.

Remote Signaling Contact
The three-pole terminal remote signaling contact versions have a floating changeover contact for use as a break or make contact, according to circuit concept.

Dimensions - mm

Module Circuit Diagrams -
Shown with optional remote contact signaling

www.cooperbussmann.com/surge
## Ordering Information

<table>
<thead>
<tr>
<th>System Voltage/Poles</th>
<th>230V/2</th>
<th>230V/2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max Continuous Operating AC Voltage (MCOV) [U_{c}]</td>
<td>275V</td>
<td>275V/255V</td>
</tr>
</tbody>
</table>

**Catalogue Numbers (Base + Modules)**
- Without Remote Signaling: BSPM2230WE, BSPH2230WE
- With Remote Signaling: BSPM2230WER, BSPH2230WER

**Replacement Modules**
- MOV: BPM275WE
- Spark Gap: BPSNPEWE

### Specifications

#### System Type
- TN
- TT

#### Voltages
- Max. Continuous Operating AC Voltage \[L-N\] \[U_{c}\]: 275V
- Max. Continuous Operating AC Voltage \[N-PE\] \[U_{c}\]: 255V
- Nominal Discharge Current \(I_{d} [8/20\mu s]\): 20kA
- Max. Discharge Current \(I_{d}[max]\): 40kA
- Lightning Impulse Current \(I_{imp} [10/350\mu s]\): 12kA
- Voltage Protection Level \[U_{p}\]: ≤1.25kV
- Voltage Protection Level at 5kA \[U_{p}\]: ≤1kV
- Voltage Protection Level \[N-PE\] \[U_{p}\]: ≤25ns
- Voltage Protection Level \[L-N\] \[U_{p}\]: ≤100ms

#### Currents
- Nominal Discharge Current \[I_{d}\]: 20kA
- Max. Discharge Current \[I_{max}\]: 40kA
- Lightning Impulse Current \[I_{imp}\]: 12kA

#### Temperature Range
- Operating Temperature Range: -40°C to +80°C

#### Cross-Sectional Area
- Cross-Sectional Area (min.): 1.5mm²/14AWG solid/flexible
- Cross-Sectional Area (max.): 35mm²/2AWG stranded-25mm²/4AWG flexible

#### Mounting
- 35mm DIN rail per EN 60715

#### Enclosure Material
- Thermoplastic, UL94V0

#### Location Category
- Indoor

#### Degree of Protection
- IP20

#### Capacity
- 2 Mods., DIN 43880

#### Standards Information
- KEMA

#### Product Warranty
- Five years**

### Remote Contact Signaling

- Remote Contact Signaling Type: Changeover Contact

#### AC Switching Capacity (Volts/Amps)
- 250V/0.5A

#### DC Switching Capacity (Volts/Amps)
- 250V/0.1A; 125V/0.2A; 75V/0.5A

#### Ordering Information
- Recommended Cooper Bussmann Back-Up Fuse Link

<table>
<thead>
<tr>
<th>DIN fuse size</th>
<th>NH fuse part number</th>
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</thead>
<tbody>
<tr>
<td>00</td>
<td>125NHG00B</td>
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</tbody>
</table>

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** N-PE Surge arrester for location between neutral conductor and protective conductor in TT systems.
** See Cooper Bussmann SPD Limited Warranty Statement (3A1920) for details at www.cooperbussmann.com/surge.