



According to the IEC/EN standards

IEC 60364-4-44

IEC 60364-5-53



Surge Protection Devices

2020



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Type classes of surge protective devices

MCF



- Type 1 + 2 SPD: $I_{mp} = 25$ kA per pole and up to 100 kA in total
- Compact design, only 105 mm wide
- Protection level: < 1.5 kV
- Safe up to mains following current of 50 kA
- Quality according to IEC 61643-11 certified by an external testing institute
- System protection up to 315 A usable without separate fusing
- Remote signaling, potential-free changeover (RS)
- Operating instructions always available online via QR code



V50



- Type 1 + 2 SPD: $I_{mp} = 12.5$ kA per pole and up to 50 kA in total
- Protection level: < 1.5 kV
- Quality according to IEC 61643-11 certified by an external testing institute
- System protection up to 160 A usable without separate fusing
- Locking function with vibration protection
- Optional remote signaling, potential-free changeover (RS)
- Variants in one to four-pole versions
- Operating instructions always available online via QR code



V20



- Type 2 SPD: $I_n = 20$ kA (L-N) and up to 40 kA per pole
- Protection level: < 1.5 kV
- Exceeds the increased requirements according to IEC 60364-4-44
- Quality according to IEC 61643-11 certified by an external testing institute
- Locking function with vibration protection
- System protection up to 160 A usable without separate fusing
- Optional remote signaling, potential-free changeover (RS)
- Variants in one to four-pole versions
- Operating instructions always available online via QR code





Industry



Office, commercial
and residential
buildings

MCF Compact

Lightning protection class 1-4

Fulfills the requirement to 100 kA (10/350) per SPD

Type 1 + 2 combination arrester

Used at the feed point of the building.



Office, commercial
and residential
buildings

V50

Lightning protection class 3-4

Fulfills the requirement to 50 kA (10/350) per SPD

Type 1 + 2 combination arrester.

Used at the feed point of the building.



Office, commercial
and residential
buildings



Main and subdis-
tributor board

V20

Fulfills the requirement to 40 kA (8/20) per pole

Type 2 surge protection

They are used in the main distributor and in sub-distributors/
switching cabinets.





Type 1: For protection against nearby lightning strikes



Type 2: For protection against switching operations and distant lightning strikes



Type 3: For added protection to sensitive equipment

Surge Protection Device Selection Chart

| Part No. | Description | Type 1 | Type 2 | Single Phase | Three Phase | Remote Signal | NPE* |
|-------------------------|----------------------------|--------|--------|--------------|-------------|---------------|------|
| MCF100-3-NPE-FS | MCF TYPE 1+2 3P+NPE+SIGNAL | ✓ | ✓ | | ✓ | ✓ | ✓ |
| MCF75-3-FS | MCF TYPE 1+2 3P+NPE+SIGNAL | ✓ | ✓ | | ✓ | ✓ | |
| V50-1-280 | V50 TYPE 1+2 1P | ✓ | ✓ | ✓ | | | |
| V50-1-FS-280 | V50 TYPE 1+2 1P+SIGNAL | ✓ | ✓ | ✓ | | ✓ | |
| V50-1-NPE-280 | V50 TYPE 1+2 1P+NPE | ✓ | ✓ | ✓ | | | ✓ |
| V50-1-NPE-FS-280 | V50 TYPE 1+2 1P+NPE+SIGNAL | ✓ | ✓ | ✓ | | ✓ | ✓ |
| V50-3-280 | V50 TYPE 1+2 3P | ✓ | ✓ | | ✓ | | |
| V50-3-FS-280 | V50 TYPE 1+2 3P+SIGNAL | ✓ | ✓ | | ✓ | ✓ | |
| V50-3-NPE-280 | V50 TYPE 1+2 3P+NPE | ✓ | ✓ | | ✓ | | ✓ |
| V50-3-NPE-FS-280 | V50 TYPE 1+2 3P+NPE+SIGNAL | ✓ | ✓ | | ✓ | ✓ | ✓ |
| V20-1-280 | V20 TYPE 2 1P | | ✓ | ✓ | | | |
| V20-1-FS-280 | V20 TYPE 2 1P+SIGNAL | | ✓ | ✓ | | ✓ | |
| V20-1-NPE-280 | V20 TYPE 2 1P+NPE | | ✓ | ✓ | | | ✓ |
| V20-1-NPE-FS-280 | V20 TYPE 2 1P+NPE+SIGNAL | | ✓ | ✓ | | ✓ | ✓ |
| V20-3-280 | V20 TYPE 2 3P | | ✓ | | ✓ | | |
| V20-3-FS-280 | V20 TYPE 2 3P+SIGNAL | | ✓ | | ✓ | ✓ | |
| V20-3-NPE-280 | V20 TYPE 2 3P+NPE | | ✓ | | ✓ | | ✓ |
| V20-3-NPE-FS-280 | V20 TYPE 2 3P+NPE+SIGNAL | | ✓ | | ✓ | ✓ | ✓ |

*Neutral - Potential Earth Protection

Supported with an industry leading 5 year warranty



Fully certified for global and Australian requirements



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