

Surge protection SPD II 3 R PV 1200VDC

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Surge protection for use on the DC side of photovoltaic installations.

The SPD II PV series is tested according to UL 1449 ed. 3 (file E354261) as type 4 for use in type 2 applications.

This series is assembled according to the respective PV voltage (600 V, 1000 V, 1200 V) and has a nominal discharge current of up to 50 kA (8/20 μ s) per path.

The SPD II has a compact and modular structure and a standard module width of 17.8 mm; it allows rapid and simple exchange of the varistor protection. The SPD PV arrester consists of 3 elements.

General ordering data

| | |
|------------|---|
| Order No. | 1348580000 |
| Type | SPD II 3 R PV 1200VDC |
| Version | Surge protection, Low voltage, with telecomm. contact |
| GTIN (EAN) | 4050118153545 |
| Qty. | 1 pc(s). |

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Technical data**Dimensions and weights**

| | | | |
|-------|---------|------------|--------|
| Width | 54 mm | Height | 100 mm |
| Depth | 73.5 mm | Net weight | 402 g |

Temperatures

| | | | |
|-----------------------|-----------------|---------------------|-----------------|
| Operating temperature | -40 °C...+70 °C | Storage temperature | -40 °C...+85 °C |
|-----------------------|-----------------|---------------------|-----------------|

General data

| | | | |
|-------------------|--------------------------------|---------------------------|---|
| Colour | Light Grey | Design | Installation housing; 3TE |
| Height with TS 35 | 74 mm | Lightning arrester | No |
| Mounting rail | TS 35, TS 35 x 15, TS 35 x 7.5 | Optical function display | green = OK; red = arrester is defective - replace |
| Protection degree | IP 20 | UL 94 flammability rating | V-0 |

Insulation coordination acc. to EN 50178

| | | | |
|--------------------|---|------------------------|-----|
| Pollution severity | 2 | Surge voltage category | III |
|--------------------|---|------------------------|-----|

technical data

| | | | |
|--|-------------------------------|-------------------------------------|---------------|
| Max. continuous voltage, U_c (DC) | 1200 V | Total discharge current I_{total} | 50 kA |
| Discharge current, max. (8/20 μ s) | 50 kA | Protection level U_p (typ.) | ≤ 4000 V |
| Signalling contact | 250 V / 0.5 A, 48 VDC / 0.1 A | Colour | Light Grey |
| AC/DC/UC | DC | Response time | ≤ 100 ns |

Connection data

| | | | |
|---|--------------------|---|---------------------|
| Clamping range, rated connection | 25 mm ² | Clamping range, rated connection, min. | 4 mm ² |
| Clamping range, rated connection, max. | 35 mm ² | Wire connection cross section, stranded, rated connection, min. | 2.5 mm ² |
| Wire connection cross section, stranded, rated connection, max. | 25 mm ² | Tightening torque, min. | 2.5 Nm |
| Tightening torque, max. | 3 Nm | Stripping length, rated connection | 15 mm |

Connection data, remote alert

| | | | |
|---|---------------------|---|---------------------|
| Connection type [remote alert] | pluggable | Max. torque [remote alert] | 0.22 Nm |
| Stripping length [remote alert] | 5 mm | Cross-section for connected wire, solid core, min. [remote alert] | 0.5 mm ² |
| Cross-section for connected wire, solid core, max. [remote alert] | 1.5 mm ² | | |

Photovoltaic technical data

| | | | |
|---|------------|--|--------|
| Maximum continuous operating voltage UCPV mode +/-, -/PE, +/-PE | 1,200 V DC | Protection level U_p at I_n (per module) | 4000 V |
| Protection level U_p mode (+/-, -/PE, +/-PE) | 4000 V | | |

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Technical data

Rated data UL

| | | | |
|----------------|--|-----------------------------|-----------|
| Category | Typ 2 | I_{max} | 50 kA |
| I_n | 20 kA | MCOV | 1,200 Vdc |
| SCCR | 200 kA | Test Voltage 39.1 (UL 1449) | 1,000 V |
| UL certificate | E-File 354261 Type 2 by UL1449 Ed.3 | VPR | 4 kV |

Classifications

| | | | |
|------------|-------------|------------|-------------|
| ETIM 3.0 | EC000941 | UNSPSC | 30-21-19-21 |
| eClass 5.1 | 27-13-08-01 | eClass 6.2 | 27-13-08-02 |
| eClass 7.1 | 27-14-02-01 | | |

Approvals

Approvals



ROHS Conform

Downloads

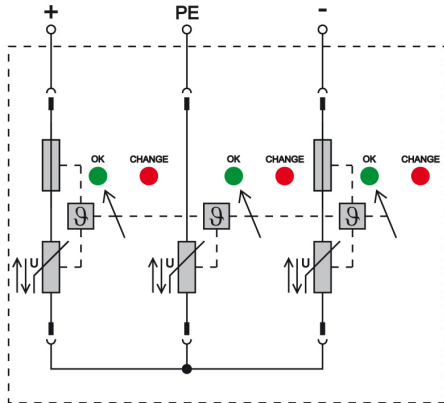
| | |
|---------------------------|--------------------------------|
| Declaration of Conformity | K481_05_12.pdf |
| EPLAN | 1348580000.ema |

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Drawings

Electric symbol



Circuit diagram