

**PU-Series**  
**PU II 2+1R 1000V DC****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 16

D-32758 Detmold

Germany

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www.weidmueller.com

**Class II surge protection**

Weidmüller surge protection in the PU II series protects low-voltage consumer installations and electronic devices against surge voltages that can occur as a result of atmospheric discharges (thunderstorms) or switching operations (transients).

The PU II range meets the requirements of class II and class III in accordance with IEC 61643-1:05-03 (2nd Ed); Type 2 and Type 3 in accordance with EN 61643-11\_02 + prA11:2005.

The PU II surge protection 1000 V to protect photovoltaic systems on the DC side is tested in accordance with UTE C 61-740-51 (prEN50539-11).

**General ordering data**

|            |                                                                         |
|------------|-------------------------------------------------------------------------|
| Order No.  | <a href="#">8882350001</a>                                              |
| Type       | PU II 2+1R 1000V DC                                                     |
| Version    | PU-Series, Surge protection, Low voltage, 550 V, with telecomm. contact |
| GTIN (EAN) | 4032248750238                                                           |
| Qty.       | 1 pc(s).                                                                |

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**Technical data**
**Dimensions and weights**

|       |       |            |       |
|-------|-------|------------|-------|
| Width | 54 mm | Height     | 97 mm |
| Depth | 58 mm | Net weight | 342 g |

**Temperatures**

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

**Discharge surge current of top part**

|                                                 |       |                                         |       |
|-------------------------------------------------|-------|-----------------------------------------|-------|
| Limiting discharge current (8/20 µs) $I_{\max}$ | 40 kA | Rated discharge current (8/20 µs) $I_N$ | 20 kA |
|-------------------------------------------------|-------|-----------------------------------------|-------|

**General data**

|                   |                                |                          |                                                   |
|-------------------|--------------------------------|--------------------------|---------------------------------------------------|
| Colour            | Black, Arrester red / blue     | Design                   | Installation housing; 3TE                         |
| Height with TS 35 | 63 mm                          | Lightning arrester       | Yes                                               |
| 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                          | Segment                  | Power distribution                                |

**Insulation coordination acc. to EN 50178**

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

**technical data**

|                                                      |                            |                                                 |                      |
|------------------------------------------------------|----------------------------|-------------------------------------------------|----------------------|
| Rated voltage (AC)                                   | 550 V                      | Rated voltage                                   | 550 V                |
| Max. continuous voltage, $U_c$ (AC)                  | 550 V                      | Max. continuous voltage, $U_c$ (DC)             | 745 V                |
| Max. continuous voltage, $U_c$ (N-PE)                | 260 V                      | Max. continuous voltage, DC [(L+/L-) – >PE]     | 900 V AC / 1200 V DC |
| Temporary surge voltage (over-voltage) - TOV         | 550 V                      | Limiting discharge current (8/20 µs) $I_{\max}$ | 40 kA                |
| Max. discharge surge current per path 8/20 µs (N-PE) | 20 kA                      | Rated discharge current (8/20 µs) $I_N$         | 20 kA                |
| Fuse, max.                                           | 125 A gL                   | Discharge current, nominal, per path, (8/20 µs) | 20 kA                |
| Discharge current, max. (8/20 µs)                    | 40 kA                      | Protection level at 5kA ( $U_p$ )               | < 1700 V             |
| Protection level at $I_n$ (N-PE)                     | < 1500 V                   | Protection level at $I_n$ ( $U_p$ )             | < 2650 V             |
| Signalling contact                                   | 250 V 1A 1CO               | PV voltage, acc. to IEC 60364-7-712             | ≤ 1000 V             |
| Colour                                               | Black, Arrester red / blue | AC/DC/UC                                        | DC                   |
| Requirements class, acc. to EN 61643-11              | T2, T3                     | Requirements category acc. to IEC 61643-11      | Type II, Type III    |
| Response time                                        | ≤ 25 ns                    | Cross-section                                   | 25 mm <sup>2</sup>   |

**Connection data**

|                                                                 |                    |                                                                 |                   |
|-----------------------------------------------------------------|--------------------|-----------------------------------------------------------------|-------------------|
| Clamping range, rated connection                                | 25 mm <sup>2</sup> | Clamping range, rated connection, min.                          | 4 mm <sup>2</sup> |
| Clamping range, rated connection, max.                          | 16 mm <sup>2</sup> | Wire connection cross section, stranded, rated connection, min. | 4 mm <sup>2</sup> |
| Wire connection cross section, stranded, rated connection, max. | 25 mm <sup>2</sup> | Tightening torque, min.                                         | 2.5 Nm            |
| Tightening torque, max.                                         | 3 Nm               | Stripping length, rated connection                              | 15 mm             |
| Wire connection cross section, finely stranded, max.            | 25 mm <sup>2</sup> |                                                                 |                   |

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**Technical data**
**Power protection Class III**

|                                              |       |                                              |       |
|----------------------------------------------|-------|----------------------------------------------|-------|
| Max. continuous voltage, U <sub>c</sub> (AC) | 550 V | Max. continuous voltage, U <sub>c</sub> (DC) | 745 V |
| Rated voltage (AC)                           | 550 V |                                              |       |

**Connection data, remote alert**

|                                                                   |                     |                                                                   |                     |
|-------------------------------------------------------------------|---------------------|-------------------------------------------------------------------|---------------------|
| Connection type [remote alert]                                    | pluggable           | Max. torque [remote alert]                                        | 0.25 Nm             |
| Stripping length [remote alert]                                   | 6 mm                | Cross-section for connected wire, solid core, min. [remote alert] | 0.2 mm <sup>2</sup> |
| Cross-section for connected wire, solid core, max. [remote alert] | 1.5 mm <sup>2</sup> |                                                                   |                     |

**Classifications**

|            |             |            |             |
|------------|-------------|------------|-------------|
| ETIM 3.0   | EC000941    | UNSPSC     | 30-21-18-01 |
| 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**

|                           |                                         |
|---------------------------|-----------------------------------------|
| Package insert            | <a href="#">Instruction sheet PU II</a> |
| Declaration of Conformity | <a href="#">K294_09_09.pdf</a>          |
| EPLAN                     | <a href="#">EPLAN4.zip</a>              |

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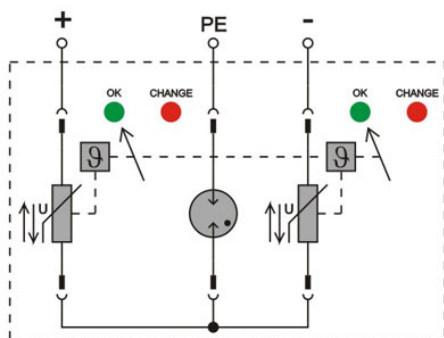
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[www.weidmueller.com](http://www.weidmueller.com)**Drawings****Electric symbol**

Circuit diagram