

## VPU series

### VPU II 3 R PV 1200V DC

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 16  
 D-32758 Detmold  
 Germany  
 Fon: +49 5231 14-0  
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Similar to illustration



#### Type II surge voltage arrester for use in photovoltaic applications

- Pluggable arrester
- Suitable for protecting DC systems
- High energy absorption with short response time
- Tested in accordance with EN 50539-11
- Suitable for use in accordance with IEC 60364-7-712 / EN 50539-12
- Coded voltage level
- Installation in distribution board
- Thermal protection function

#### General ordering data

|            |   |
|------------|---|
| Type       | VPU II 3 R PV 1200V DC  |
| Order No.  | <a href="#">1351440000</a>  |
| Version    | Surge voltage arrester, Low voltage, 1200 V, with remote contact, 40 kA |
| GTIN (EAN) | 4050118158656   |
| Qty.       | 1 pc(s).  |

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

|                             |         |                 |            |
|-----------------------------|---------|-----------------|------------|
| Width                       | 53.4 mm | Width (inches)  | 2.102 inch |
| Height                      | 106 mm  | Height (inches) | 4.173 inch |
| Depth                       | 69 mm   | Depth (inches)  | 2.717 inch |
| Mounting dimension - height | 75 mm   | Net weight      | 414 g      |

**Temperatures**

|                             |                |                           |           |
|-----------------------------|----------------|---------------------------|-----------|
| Operating temperature, min. | -40 °C         | Storage temperature, max. | 80 °C     |
| Storage temperature, min.   | -40 °C         | Operating temperature     | -40 °C... |
| Storage temperature         | -40 °C...80 °C |                           |           |

**Connection data, remote alert**

|  |                      |  |                     |
|--|----------------------|--|---------------------|
| Connection type                                    | PUSH IN              | Stripping length                                   | 8 mm                |
| Cross-section for connected wire, solid core, min. | 0.14 mm <sup>2</sup> | Cross-section for connected wire, solid core, max. | 1.5 mm <sup>2</sup> |

**General data**

|                   |                     |                           |   |
|-------------------|---------------------|---------------------------|---|
| Colour            | Black, Orange       | Design                    | Installation housing; 3TE, Insta IP 20            |
| Mounting rail     | TS 35               | Optical function display  | green = OK; red = arrester is defective - replace |
| Protection degree | IP20                | UL 94 flammability rating | V-0   |
| Version           | with remote contact |                           |   |

**Insulation coordination acc. to EN 50178**

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

**Photovoltaic technical data**

|  |             |   |               |
|--|-------------|---|---------------|
| Conditions and requirements            | EN 50539-11 | Discharge current $I_n$ (8/20 $\mu$ s)                          | 20 kA         |
| Discharge current, max. (8/20 $\mu$ s) | 40 kA       | Maximum continuous operating voltage UCPV mode +/-, -/PE, +/-PE | 1,200 V DC    |
| PV system voltage, max. $U_{cpv}$      | 1,200 V     | Protection level $U_p$ mode (+/-, -/PE, +/-PE)                  | $\leq 4.4$ kV |
| Requirements class                     | Type II     | Short-circuit current $I_{SCPV}$                                | 200 A         |
| Standards                              | EN 50539-11 |   |               |

**Connection data**

|  |                     |  |                     |
|--|---------------------|--|---------------------|
| Type of connection   | Screw connection    | Stripping length, rated connection                         | 15 mm               |
| Tightening torque, min.                                    | 2 Nm                | Tightening torque, max.                                    | 3 Nm                |
| Clamping range, rated connection                           | 16 mm <sup>2</sup>  | Clamping range, min.                                       | 1.5 mm <sup>2</sup> |
| Wire cross-section, solid, min.                            | 1.5 mm <sup>2</sup> | Wire cross-section, solid, max.                            | 16 mm <sup>2</sup>  |
| Wire connection cross-section, finely stranded, min.       | 1.5 mm <sup>2</sup> | Wire connection cross section, finely stranded, max.       | 25 mm <sup>2</sup>  |
| Conductor cross-section, flexible, AEH (DIN 46228-1), min. | 1.5 mm <sup>2</sup> | Conductor cross-section, flexible, AEH (DIN 46228-1), max. | 50 mm <sup>2</sup>  |
| Connection cross-section, stranded, min.                   | 1.5 mm <sup>2</sup> | Connection cross-section, stranded, max.                   | 50 mm <sup>2</sup>  |

**Data sheet**

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**Classifications**

|            |             |            |             |
|------------|-------------|------------|-------------|
| ETIM 3.0   | EC000941    | ETIM 5.0   | EC000510    |
| ETIM 6.0   | 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 | eClass 8.1 | 27-14-02-01 |
| eClass 9.0 | 27-14-02-01 | eClass 9.1 | 27-13-08-05 |

**Product information**

Instructions for accessories      Pluggable spare arrester VPU II 0 PV 1,200 V-135 1390000

**Approvals**

Approvals



ROHS      Conform

**Downloads**

|   |   |
|---|---|
| Approval/Certificate/Document of Conformity | <a href="#">CE PAPER</a>                |
| Brochure/Catalogue                          | <a href="#">CAT 4.4 ELECTR 16/17 EN</a> |
| Engineering Data                            | <a href="#">EPLAN, WSCAD</a>            |
| Engineering Data                            | <a href="#">STEP</a>                    |
| User Documentation                          | <a href="#">Instruction sheet</a>       |

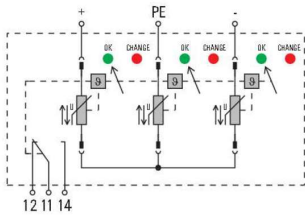
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**Drawings**

**Electric symbol**

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Circuit diagram

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