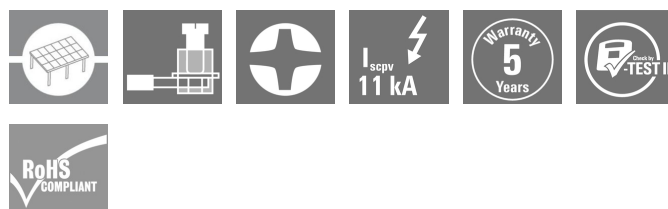


**VPU PV II 3 R 1000****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)**Product image****General ordering data**

|                   |  |
|-------------------|--|
| Version           | Surge voltage arrester, Low voltage, with remote contact |
| Order No.         | <a href="#">2530180000</a>                               |
| Type              | VPU PV II 3 R 1000                                       |
| GTIN (EAN)        | 4050118540512  |
| Qty.              | 1 pc(s).   |
| Replacement parts | <a href="#">2530660000</a> <a href="#">1402570000</a>    |

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## Technical data

## Dimensions and weights

|                             |        |                 |            |
|-----------------------------|--------|-----------------|------------|
| Depth                       | 70 mm  | Depth (inches)  | 2.756 inch |
| Height                      | 102 mm | Height (inches) | 4.016 inch |
| Width                       | 54 mm  | Width (inches)  | 2.126 inch |
| Mounting dimension - height | 75 mm  | Net weight      | 386 g      |

## Temperatures

|                     |                       |                       |                |
|---------------------|-----------------------|-----------------------|----------------|
| Storage temperature | 85 °C                 | Operating temperature | -40 °C...85 °C |
| Humidity            | 5 - 95% rel. humidity |                       |                |

## Rated data UL

|   |              |  |         |
|---|--------------|--|---------|
| Ambient temperature (operational), max. 85 °C |              | Rated Voltage $U_N$                            | 1,100 V |
| SCCR  | 50 kA        | $I_n$  | 20 kA   |
| Category                                      | SPD TYPE 1CA | Ambient temperature (operational), min. -40 °C |         |
| Certificate No. (cURus)                       | E354261      | VPR (DC+/DC-)                                  | 2,500 V |
| Voltage type                                  | DC           |  |         |

## Connection data, remote alert

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

## General data

|                           |               |                          |   |
|---------------------------|---------------|--------------------------|---|
| Colour                    | black, orange | Design                   | Installation housing; 3TE, Insta IP 20            |
| Operating altitude        | ≤ 4000 m      | Optical function display | green = OK; red = arrester is defective - replace |
| Protection degree         | IP20          | Rail                     | TS 35   |
| 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

|  |                                   |   |                                       |
|--|-----------------------------------|---|---------------------------------------|
| Discharge current $I_n$ (8/20 μs)          | 20 kA                             | Discharge current, max. (8/20 μs)             | 40 kA                                 |
| Operating height in the grounded PV system | ≤ 2000 m                          | Operating height in ungrounded PV system      | < 4,000 m, see operating instructions |
| PV system voltage, max. $U_{cpv}$          | 1,100 V                           | Protection level $U_p$ (+/-, -/PE, +/PE)      | ≤ 3.8 kV                              |
| Requirements class                         | Type II                           | Short-circuit current $I_{SCPv}$              | 11,000 A                              |
| Standards                                  | EN 61643-31, EN 50539-11, UL 1449 | Total discharge current $I_{total}$ (8/20 μs) | 50 kA                                 |

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## Technical data

## Rated data IEC / EN

|                                   |  |                          |                                      |
|-----------------------------------|--|--------------------------|--------------------------------------|
| Discharge current, max. (8/20 µs) | 40 kA  | Leakage current at $U_n$ | 30 µA                                |
| Number of poles                   | 3  | Rated voltage (DC)       | 1000 V                               |
| Response time                     | ≤ 25 ns  | SPD type                 | T2                                   |
| Signalling contact                | 250 V 1A 1CO, 125 V<br>AC / 1 A, 48 V CC / 0.5 A | Standards                | EN 61643-31, EN<br>50539-11, UL 1449 |
| Voltage type                      | DC   |                          |                                      |

## Connection data

|   |                    |   |                     |
|---|--------------------|---|---------------------|
| Stripping length  | 18 mm              | Wire connection method                                  | Screw connection    |
| Type of connection                                      | Screw connection   | Stripping length, rated connection                      | 18 mm               |
| Tightening torque, min.                                 | 2 Nm               | Tightening torque, max.                                 | 4 Nm                |
| Clamping range, rated connection                        | 16 mm <sup>2</sup> | Clamping range, min.                                    | 1.5 mm <sup>2</sup> |
| Clamping range, max.                                    | 35 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<br>stranded, min. | 1.5 mm <sup>2</sup> |
| Wire connection cross section, finely<br>stranded, max. | 25 mm <sup>2</sup> | Connection cross-section, stranded, min.                | 1.5 mm <sup>2</sup> |
| Connection cross-section, stranded,<br>max.             | 35 mm <sup>2</sup> |   |                     |

## Guarantee

|               |         |
|---------------|---------|
| Time interval | 5 years |
|---------------|---------|

## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC000941    | ETIM 7.0    | EC000941    |
| ETIM 8.0    | EC000941    | ETIM 9.0    | EC000941    |
| ECLASS 9.0  | 27-13-08-05 | ECLASS 9.1  | 27-13-08-05 |
| ECLASS 10.0 | 27-13-08-05 | ECLASS 11.0 | 27-13-08-05 |
| ECLASS 12.0 | 27-17-90-90 | ECLASS 13.0 | 27-17-90-90 |

## Approvals

Approvals



|                         |            |
|-------------------------|------------|
| ROHS                    | Conform    |
| UL File Number Search   | UL Website |
| Certificate No. (cURus) | E354261    |

## Downloads

|   |   |
|---|---|
| Approval/Certificate/Document of Conformity | <a href="#">CE_VPU_PV</a>   |
| Engineering Data                            | <a href="#">CAD data – STEP</a>   |
| Tender specification                        | <a href="#">Ausschreibungstext DE</a><br><a href="#">Tenderspecification EN</a> |
| User Documentation                          | <a href="#">Beipackzettel / Instruction sheet</a>                               |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>  |

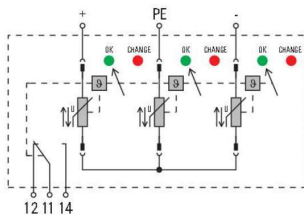
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## Drawings

### Electric symbol



Circuit diagram