

**VPU PV II 5 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**

|                   |                            |
|-------------------|----------------------------|
| Order No.         | <a href="#">2857020000</a> |
| Type              | VPU PV II 5 R 1000         |
| GTIN (EAN)        | 4064675537380              |
| Qty.              | 1 pc(s).                   |
| Replacement parts | <a href="#">2857010000</a> |

## VPU PV II 5 R 1000

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## Technical data

## Dimensions and weights

|                             |        |                 |            |
|-----------------------------|--------|-----------------|------------|
| Depth                       | 60 mm  | Depth (inches)  | 2.362 inch |
| Height                      | 105 mm | Height (inches) | 4.134 inch |
| Width                       | 90 mm  | Width (inches)  | 3.543 inch |
| Mounting dimension - height | 105 mm | Net weight      | 479 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 <sub>N</sub> | 1,100 V |
| SCCR 50 kA                                     | I <sub>n</sub>               | 20 kA   |
| Ambient temperature (operational), min. -40 °C | Voltage type                 | DC      |

## Connection data, remote alert

|  |                     |  |                      |
|--|---------------------|--|----------------------|
| 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                    | grey     | Design                   | 5 TE, Insta IP 20                                 |
| Operating altitude        | ≤ 2000 m | Optical function display | green = OK; red = arrester is defective - replace |
| Protection degree         | IP20     | Rail                     | TS 35   |
| UL 94 flammability rating | V-0      | auxiliary contact        | No  |

## 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 | PV system voltage, max. $U_{cpv}$ | 1,100 V                            |
| Protection level $U_p$ (+/-, -/PE, +/PE)      | ≤ 4,2 kV | Requirements class                | Type II                            |
| Short-circuit current $I_{SCPv}$              | 9,000 A  | Standards                         | UL 1449, IEC 61643-31, EN 61643-31 |
| Total discharge current $I_{total}$ (8/20 μs) | 40 kA    |                                   |                                    |

## Rated data IEC / EN

|   |              |                                   |                                    |
|---|--------------|-----------------------------------|------------------------------------|
| Discharge current $I_{max}$ (8/20 μs) wire-PE | 40 kA        | Discharge current, max. (8/20 μs) | 40 kA                              |
| Number of poles                               | 5            | Rated voltage (DC)                | 1000 V                             |
| Response time                                 | ≤ 25 ns      | SPD type                          | T2                                 |
| Signalling contact                            | 250 V 1A 1CO | Standards                         | UL 1449, IEC 61643-31, EN 61643-31 |
| Voltage type                                  | DC           |                                   |                                    |

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|  |                     |  |                    |
|--|---------------------|--|--------------------|
| Stripping length                                     | 18 mm               | 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 stranded, min. | 1.5 mm <sup>2</sup> | Wire connection cross section, finely stranded, max. | 25 mm <sup>2</sup> |
| Connection cross-section, stranded, min.             | 1.5 mm <sup>2</sup> | Connection cross-section, stranded, max.             | 35 mm <sup>2</sup> |

**Classifications**

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC000941    | ETIM 7.0    | EC000941    |
| ETIM 8.0    | EC000941    | ETIM 9.0    | EC000941    |
| 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

**Downloads**

|                  |  |
|------------------|--|
| Engineering Data | <a href="#">CAD data – STEP</a>          |
| Catalogues       | <a href="#">Catalogues in PDF-format</a> |

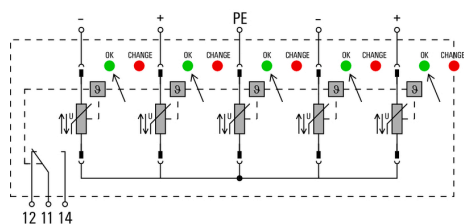
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## Drawings

### Electric symbol



Circuit diagram

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[www.weidmueller.com](http://www.weidmueller.com)**Accessories****Crosshead screwdriver Phillips**

VDE insulated crosshead screwdriver, for Phillips screws, SDIK PH DIN 7438, ISO 8764/2-PH, output to ISO 8764-PH, SoftFinish grip

**General ordering data**

|            |                            |   |
|------------|----------------------------|---|
| Type       | SDIK PH1 X 80              | Version   |
| Order No.  | <a href="#">2749890000</a> | Screwdriver, Blade width (B): 1 mm, 80 mm, Blade thickness (A): 1 |
| GTIN (EAN) | 4050118897098              |   |
| Qty.       | 1 pc(s).                   |   |

**Slotted screwdriver**

VDE insulated slot-head screwdriver, SDI DIN 7437, ISO 2380/2, drive output acc. to DIN 5264, ISO 2380/1. SoftFinish grip

**General ordering data**

|            |                            |   |
|------------|----------------------------|---|
| Type       | SDIS 1.0X5.5X125           | Version   |
| Order No.  | <a href="#">2749850000</a> | Screwdriver, Blade width (B): 5.5 mm, Blade length: 125 mm, Blade |
| GTIN (EAN) | 4050118897050              | thickness (A): 1 mm   |
| Qty.       | 1 pc(s).                   |   |

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## Replacement parts

### Spare Arrester



### General ordering data

|            |                            |
|------------|----------------------------|
| Type       | VPU PV II 5 0 1000         |
| Order No.  | <a href="#">2857010000</a> |
| GTIN (EAN) | 4064675537373              |
| Qty.       | 9 pc(s).                   |