

**VPU PV II 5 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="#">2856500000</a> |
| Type              | VPU PV II 5 1000           |
| GTIN (EAN)        | 4064675536437              |
| Qty.              | 1 pc(s).                   |
| Replacement parts | <a href="#">2857010000</a> |

## VPU PV II 5 1000

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## Technical data

## Dimensions and weights

|                             |       |                 |            |
|-----------------------------|-------|-----------------|------------|
| Depth                       | 60 mm | Depth (inches)  | 2.362 inch |
| Height                      | 96 mm | Height (inches) | 3.78 inch  |
| Width                       | 90 mm | Width (inches)  | 3.543 inch |
| Mounting dimension - height | 96 mm | Net weight      | 467 g      |

## Temperatures

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

## General data

|                 |      |                   |      |
|-----------------|------|-------------------|------|
| Number of poles | 5    | Protection degree | IP20 |
| Colour          | grey |                   |      |

## Insulation coordination acc. to EN 50178

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

## Photovoltaic technical data

|                                            |                           |                                                    |               |
|--------------------------------------------|---------------------------|----------------------------------------------------|---------------|
| Discharge current $I_n$ (8/20 $\mu$ s)     | 20 kA                     | Discharge current, max. (8/20 $\mu$ s)             | 40 kA         |
| Operating height in the grounded PV system | $\leq 2000$ m             | Operating height in ungrounded PV system           | $\leq 2000$ m |
| PV system voltage, max. $U_{cpv}$          | 1,100 V                   | Protection level $U_p$ (+/-, -/PE, +/-PE)          | $\leq 4,2$ kV |
| Requirements class                         | Type II                   | Short-circuit current $I_{SCP}$                    | 11,000 A      |
| Standards                                  | IEC 61643-31, EN 61643-31 | Total discharge current $I_{total}$ (8/20 $\mu$ s) | 40 kA         |

## Rated data IEC / EN

|                                                    |              |                                        |                           |
|----------------------------------------------------|--------------|----------------------------------------|---------------------------|
| Discharge current $I_{max}$ (8/20 $\mu$ s) wire-PE | 40 kA        | Discharge current, max. (8/20 $\mu$ s) | 40 kA                     |
| Integrated back-up fuse                            | No           | Leakage current at $U_n$               | 30 $\mu$ A                |
| Number of poles                                    | 5            | Rated voltage (DC)                     | 1000 V                    |
| Response time                                      | $\leq 25$ ns | SPD type                               | T2                        |
| Signalling contact                                 | No           | Standards                              | IEC 61643-31, EN 61643-31 |
| Voltage type                                       | DC           |                                        |                           |

## Connection data

|                                                      |                     |                                                      |                    |
|------------------------------------------------------|---------------------|------------------------------------------------------|--------------------|
| Stripping length                                     | 18 mm               | Type of connection                                   | Screw connection   |
| Stripping length, rated connection                   | 18 mm               | Tightening torque, min.                              | 3 Nm               |
| Tightening torque, max.                              | 4.5 Nm              | Clamping range, rated connection                     | 6 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> |

## Electrical data

|              |    |
|--------------|----|
| Voltage type | DC |
|--------------|----|

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|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC000941    | ETIM 7.0    | EC000941    |
| ETIM 8.0    | EC000941    | ETIM 9.0    | EC000941    |
| ETIM 10.0   | 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 |
| ECLASS 14.0 | 27-17-90-90 | ECLASS 15.0 | 27-17-90-90 |

**Environmental Product Compliance**

|                        |                             |
|------------------------|-----------------------------|
| RoHS Compliance Status | Compliant without exemption |
| REACH SVHC             | No SVHC above 0.1 wt%       |

**Approvals**

Approvals



|                 |                                                                                                                                                                             |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approvals MAMID | <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-T1z1mm-S800/</a> |
| ROHS            | Conform                                                                                                                                                                     |

**Downloads**

|                                             |                                                                         |
|---------------------------------------------|-------------------------------------------------------------------------|
| Approval/Certificate/Document of Conformity | <a href="#">EU_Konformitätserklärung / EU_Declaration_of_Conformity</a> |
| Engineering Data                            | <a href="#">CAD data – STEP</a>                                         |
| User Documentation                          | <a href="#">Beipackzettel / Instruction Sheet</a>                       |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>                                |

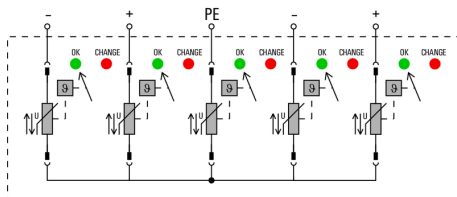
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## Drawings

### Electric symbol



Circuit diagram

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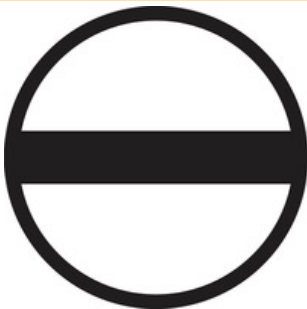
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[www.weidmueller.com](http://www.weidmueller.com)**Accessories****Crosshead screwdriver Phillips**

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).                   |