

## VPU series

### VPU III R 120V/6KV AC/DC

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 26  
 D-32758 Detmold  
 Germany  
 Fon: +49 5231 14-0  
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 www.weidmueller.com



Similar to illustration



#### Type III surge protection

- Compact Type III arrester for AC/DC protection acc. to IEC 61643-11:2012
- Suitable for protecting terminals
- Installed in the vicinity of the equipment to be protected
- Can be used as single-port arrester when nominal current is greater than 16 A

#### General ordering data

|            |   |
|------------|---|
| Type       | VPU III R 120V/6KV AC/DC  |
| Order No.  | <a href="#">1351630000</a>  |
| Version    | Surge voltage arrester, Low voltage, with remote contact, Single-phase, $U_p(L/N-PE) < 700 \text{ V}$ |
| GTIN (EAN) | 4050118158519   |
| Qty.       | 1 pc(s).  |

Creation date May 3, 2020 5:51:02 AM CEST

Catalogue status 17.04.2020 / We reserve the right to make technical changes.

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## Technical data

### Dimensions and weights

|            |         |                 |            |
|------------|---------|-----------------|------------|
| Width      | 18 mm   | Width (inches)  | 0.709 inch |
| Height     | 102 mm  | Height (inches) | 4.016 inch |
| Depth      | 71.5 mm | Depth (inches)  | 2.815 inch |
| Net weight | 85 g    |                 |            |

### Temperatures

|                             |                       |                             |                |
|-----------------------------|-----------------------|-----------------------------|----------------|
| Humidity                    | 5 - 95% rel. humidity | Operating temperature, max. | 70 °C          |
| Operating temperature, min. | -40 °C                | Storage temperature, max.   | 70 °C          |
| Storage temperature, min.   | -40 °C                | Operating temperature       | -40 °C...70 °C |
| Storage temperature         | -40 °C...70 °C        |                             |                |

### Technical data, signal line

|                     |      |
|---------------------|------|
| Rated current $I_N$ | 16 A |
|---------------------|------|

### Connection data, remote alert

|  |                     |  |                     |
|--|---------------------|--|---------------------|
| Connection type                                    | Screw connection    | Max. torque  | 0.5 Nm              |
| Stripping length                                   | 5 mm                | Cross-section for connected wire, solid core, min. | 0.2 mm <sup>2</sup> |
| Cross-section for connected wire, solid core, max. | 1.5 mm <sup>2</sup> |  |                     |

### General data

|                           |  |                   |  |
|---------------------------|--|-------------------|--|
| Colour                    | orange   | Design            | Installation housing; 1TE, Insta IP 20 |
| Optical function display  | Green LED = OK, Red LED = arrester is defective, replace | Protection degree | IP20                                   |
| Rail                      | TS 35  | Segment           | Power distribution                     |
| UL 94 flammability rating | V-0  | Version           | with remote contact                    |

### Insulation coordination acc. to EN 50178

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

### Rated data IEC / EN

|  |                |   |                 |
|--|----------------|---|-----------------|
| Rated voltage (AC)                           | 120 V          | Rated voltage (DC)                      | 150 V           |
| Voltage type                                 | AC/DC          | Max. continuous voltage, $U_c$ (AC)     | 150 V           |
| Max. continuous voltage, $U_c$ (DC)          | 212 V          | Low voltage network                     | Single-phase    |
| Discharge current, max. (8/20 $\mu$ s)       | 3 kA           | Fuse                                    | 16 A            |
| Short-circuit current rating $I_{SCCR}$      | 1.5 kA         | Protection level $U_p$ (typ.)           | < 700 V         |
| Protection level $U_p$ at $I_N$ (L/N-PE)     | $\leq 1.75$ kV | Leakage current at $U_n$                | 30 $\mu$ A      |
| Temporary surge voltage (over-voltage) - TOV | 229 V          | Combined pulse $U_{OC}$                 | 6 kV            |
| Mains frequency at 250 Vmax                  | 50...60Hz      | Number of poles                         | 1               |
| PE conductor current $I_{PE}$                | 30 $\mu$ A     | Rated current $I_N$                     | 16 A            |
| Requirements category acc. to IEC 61643-11   | Type III       | Requirements class, acc. to EN 61643-11 | T3              |
| Response time                                | $\leq 100$ ns  | Signalling contact                      | 250 V 10 A 1 NC |

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## Technical data

### Connection data

|  |                     |  |                      |
|--|---------------------|--|----------------------|
| Type of connection   | Screw connection    | Stripping length, rated connection                         | 7 mm                 |
| Tightening torque, min.                                    | 0.4 Nm              | Tightening torque, max.                                    | 0.5 Nm               |
| Clamping range, rated connection                           | 2.5 mm <sup>2</sup> | Clamping range, min.                                       | 0.5 mm <sup>2</sup>  |
| Clamping range, max.                                       | 2.5 mm <sup>2</sup> | Wire cross-section, solid, min.                            | 0.13 mm <sup>2</sup> |
| Wire cross-section, solid, max.                            | 2.5 mm <sup>2</sup> | Wire connection cross-section, finely stranded, min.       | 0.5 mm <sup>2</sup>  |
| Wire connection cross section, finely stranded, max.       | 2.5 mm <sup>2</sup> | Conductor cross-section, flexible, AEH (DIN 46228-1), min. | 0.5 mm <sup>2</sup>  |
| Conductor cross-section, flexible, AEH (DIN 46228-1), max. | 2.5 mm <sup>2</sup> | Connection cross-section, stranded, min.                   | 0.5 mm <sup>2</sup>  |
| Connection cross-section, stranded, max.                   | 2.5 mm <sup>2</sup> |  |                      |

### Classifications

|             |             |            |             |
|-------------|-------------|------------|-------------|
| ETIM 6.0    | EC000941    | ETIM 7.0   | EC000941    |
| eClass 9.0  | 27-13-08-05 | eClass 9.1 | 27-13-08-05 |
| eClass 10.0 | 27-13-08-05 | UNSPSC     | 30-21-19-21 |

### Approvals

Approvals



ROHS Conform

### Downloads

|   |   |
|---|---|
| Approval/Certificate/Document of Conformity | <a href="#">EAC VPU SERIES</a><br><a href="#">CE PAPER</a><br><a href="#">Declaration of Conformity</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>   |

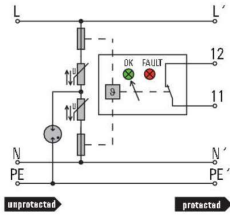
**Data sheet**

**VPU series**  
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**Drawings**

**Electric symbol**



Schematic circuit diagram

**Data sheet****VPU series**  
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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 PH0                   | Version                          |
| Order No.  | <a href="#">9008560000</a> | Screwdriver, Blade length: 60 mm |
| GTIN (EAN) | 4032248056552              |                                  |
| Qty.       | 1 pc(s).                   |                                  |