

## VPU series

### VPU III R 48V/4KV AC/DC

**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

Fon: +49 5231 14-0

Fax: +49 5231 14-292083

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 48V/4KV AC/DC
Order No.	<a href="#">1351600000</a>
Version	Surge voltage arrester, Low voltage, with remote contact, Single-phase, $U_P(L/N-PE) \leq 220 \text{ V}$
GTIN (EAN)	4050118158533
Qty.	1 pc(s).

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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	87 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
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### 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
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### Rated data IEC / EN

Rated voltage (AC)	48 V	Rated voltage (DC)	68 V
Voltage type	AC/DC	Max. continuous voltage, $U_c$ (AC)	50 V
Max. continuous voltage, $U_c$ (DC)	72 V	Low voltage network	Single-phase
Discharge current, max. (8/20 $\mu$ s)	2 kA	Fuse	16 A
Short-circuit current rating $I_{SCCR}$	1.5 kA	Protection level $U_p$ (typ.)	$\leq 220$ V
Protection level $U_p$ at $I_N$ (L/N-PE)	$\leq 950$ V	Leakage current at $U_n$	30 $\mu$ A
Temporary surge voltage (over-voltage) - TOV	92 V	Combined pulse $U_{OC}$	4 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



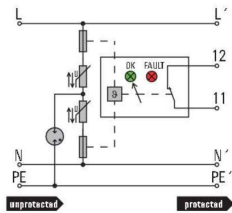
ROHS Conform

### Downloads

Approval/Certificate/Document of Conformity	<a href="#">EAC VPU SERIES</a> <a href="#">CE PAPER</a> <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  
VPU III R 48V/4KV AC/DC**

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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).	