

## VPU series

### VPU III R 24V/4KV AC/DC

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 26  
 D-32758 Detmold  
 Germany  
 Fon: +49 5231 14-0  
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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 24V/4KV AC/DC
Order No.	<a href="#">1351580000</a>
Version	Surge voltage arrester, Low voltage, with remote contact, Single-phase, $U_p(L/N-PE) \leq 220 \text{ V}$
GTIN (EAN)	4050118158557
Qty.	1 pc(s).

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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	84 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

Combined pulse $U_{OC}$	4 kV	Discharge current, max. (8/20 $\mu$ s)	2 kA
Fuse	16 A	Leakage current at $U_n$	30 $\mu$ A
Low voltage network	Single-phase	Mains frequency at 250 Vmax	50...60Hz
Max. continuous voltage, $U_c$ (AC)	32 V	Max. continuous voltage, $U_c$ (DC)	42 V
Number of poles	1	PE conductor current $I_{PE}$	30 $\mu$ A
Protection level $U_p$ (typ.)	$\leq$ 220 V	Protection level $U_p$ at $I_N$ (L/N-PE)	$\leq$ 0.9 kV
Rated current $I_N$	16 A	Rated voltage (AC)	24 V
Rated voltage (DC)	32 V	Requirements category acc. to IEC 61643-11	Type III
Requirements class, acc. to EN 61643-11	T3	Response time	$\leq$ 100 ns
Short-circuit current rating $I_{SCCR}$	1.5 kA	Signalling contact	250 V 10 A 1 NC
Temporary surge voltage (over-voltage) - TOV	46 V	Voltage type	AC/DC

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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



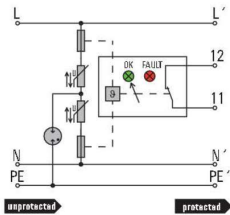
ROHS Conform

**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  
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**Drawings****Electric symbol**

Schematic circuit diagram