

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.	1351600000
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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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 ²
Cross-section for connected wire, solid core, max.	1.5 mm ²		

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 μ s)	2 kA
Fuse	16 A	Leakage current at U_n	30 μ A
Low voltage network	Single-phase	Mains frequency at 250 Vmax	50...60Hz
Max. continuous voltage, U_c (AC)	50 V	Max. continuous voltage, U_c (DC)	72 V
Number of poles	1	PE conductor current I_{PE}	30 μ A
Protection level U_p (typ.)	≤ 220 V	Protection level U_p at I_N (L/N-PE)	≤ 950 V
Rated current I_N	16 A	Rated voltage (AC)	48 V
Rated voltage (DC)	68 V	Requirements category acc. to IEC 61643-11	Type III
Requirements class, acc. to EN 61643-11	T3	Response time	≤ 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	92 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 ²	Clamping range, min.	0.5 mm ²
Clamping range, max.	2.5 mm ²	Wire cross-section, solid, min.	0.13 mm ²
Wire cross-section, solid, max.	2.5 mm ²	Wire connection cross-section, finely stranded, min.	0.5 mm ²
Wire connection cross section, finely stranded, max.	2.5 mm ²	Conductor cross-section, flexible, AEH (DIN 46228-1), min.	0.5 mm ²
Conductor cross-section, flexible, AEH (DIN 46228-1), max.	2.5 mm ²	Connection cross-section, stranded, min.	0.5 mm ²
Connection cross-section, stranded, max.	2.5 mm ²		

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

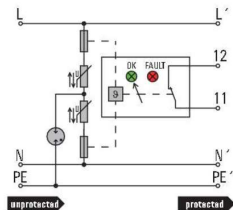
Approval/Certificate/Document of Conformity	EAC VPU SERIES CE PAPER Declaration of Conformity
Brochure/Catalogue	CAT 4.4 ELECTR 16/17 EN
Engineering Data	EPLAN, WSCAD
Engineering Data	STEP
User Documentation	Instruction sheet

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Drawings

Electric symbol



Schematic circuit diagram