

VPU series

VPU III R 230V/6KV AC

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 16
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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 230V/6KV AC
Order No.	1351650000
Version	Surge voltage arrester, Low voltage, with remote contact, Single-phase, $U_p(L/N-PE) \leq 1200 \text{ V}$
GTIN (EAN)	4050118158496
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	85 g		

Temperatures

Humidity	5 - 95% rel. humidity	Operating temperature, max.	70 °C
Operating temperature, min.	-40 °C	Storage temperature, max.	80 °C
Storage temperature, min.	-40 °C	Operating temperature	-40 °C...70 °C
Storage temperature	-40 °C...80 °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
Mounting rail	TS 35	Optical function display	Green LED = OK, Red LED = arrester is defective, replace
Protection degree	IP20	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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Photovoltaic technical data

Discharge current, max. (8/20 μs)	3 kA
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Technical data**Rated data IEC / EN**

Combined pulse U_{OC}	6 kV	Discharge current, max. (8/20 μ s)	3 kA
Fuse	16 A	Leakage current at U_n	30 μ A
Mains frequency at 250 Vmax	50...60 Hz	Max. continuous voltage, U_c (AC)	300 V
No. of poles	1	PE conductor current I_{PE}	30 μ A
Protection level U_p (typ.)	\leq 1200 V	Protection level U_p at I_N (L/N-PE)	\leq 1.8 kV
Rated current I_N	16 A	Rated voltage (AC)	230 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	438 V
Voltage type	AC	low voltage network	Single-phase

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
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 3.0	EC000941	ETIM 5.0	EC000510
ETIM 6.0	EC000941	UNSPSC	30-21-19-21
eClass 5.1	27-13-08-01	eClass 6.2	27-13-08-02
eClass 7.1	27-14-02-01	eClass 8.1	27-14-02-01
eClass 9.0	27-14-02-01	eClass 9.1	27-13-08-05

Approvals

Approvals



ROHS

Conform

Downloads

Approval/Certificate/Document of Conformity	CE PAPER
Brochure/Catalogue	CAT 4.4 ELECTR 16/17 EN
Engineering Data	EPLAN_WSCAD
User Documentation	Instruction sheet

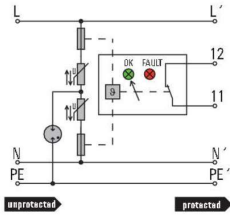
Data sheet

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Drawings

Electric symbol



Circuit diagram