

## VPU series

### VPU III R 230V/6KV AC

**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 16

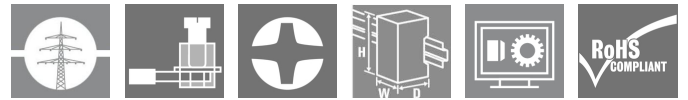
D-32758 Detmold

Germany

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www.weidmueller.com



#### 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.	<a href="#">1351650000</a>
Version	Low voltage, with telecomm. contact, TN-C, TN-S, TN-C-S, $U_p(L/N-PE) \leq 1200 \text{ V}$
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	-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 <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
Mounting rail	TS 35	Optical function display	Green LED = OK, Red LED = arrester is defective, replace
Protection degree	IP20	UL 94 flammability rating	V-0

**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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**Rated data IEC / EN**

Combined pulse $U_{OC}$	6 kV	Discharge current, max. (8/20 µs)	3 kA
Fuse	16 A	Leakage current at $U_n$	30 µA
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 µA
Protection level $U_p$ (typ.)	≤ 1200 V	Protection level $U_p$ at $I_N$ (L/N-PE)	≤ 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	≤ 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	TN-C, TN-S, TN-C-S

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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, rated connection, min.	0.5 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>
Wire connection cross section, stranded, rated connection, min.	0.5 mm <sup>2</sup>	Wire connection cross section, stranded, rated connection, max.	2.5 mm <sup>2</sup>

### 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



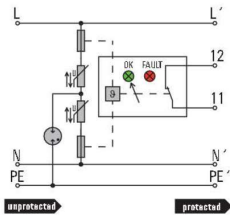
ROHS Conform

### Downloads

Approval/Certificate/Document of Conformity	<a href="#">CE PAPER</a>
Brochure/Catalogue	<a href="#">CAT 4.4 ELECTR 16/17 EN</a>
Engineering Data	<a href="#">EPLAN, WSCAD</a>
User Documentation	<a href="#">Instruction sheet</a>

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**Electric symbol**

Circuit diagram