

Surge protection
VPU III R 12V/4KV AC/DC

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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 12V/4KV AC/DC
Order No.	1351550000
Version	Surge protection, Low voltage, Type III, 2 kA , with telecomm. contact, $U_p \leq 0.98$ kV
GTIN (EAN)	4050118158571
Qty.	1 pc(s).

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Technische Daten

Dimensions and weights

Width	18 mm	Height	102 mm
Depth	71.5 mm	Net weight	68 g

Temperatures

Operating temperature	-40 °C...+70 °C	Storage temperature	-40 °C...+80 °C
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General data

Acoustic signal	No	Colour	Red
Design	Installation housing; 1TE, Insta IP 20	Lightning arrester	Yes
Mounting rail	TS 35, TS 35 x 15, TS 35 x 7.5	Optical function display	Green LED = OK, Red LED = arrester is defective, replace
Protection degree	IP 20	Segment	Power distribution
UL 94 flammability rating	V-0		

Insulation coordination acc. to EN 50178

Pollution severity	2	Surge voltage category	II
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Interference voltage

On output side (L - N) at max. discharge current; smaller	180 V	On output side (L /N - PE) at max. discharge current; smaller	980 V
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technical data

Rated voltage (AC)	12 V	Rated voltage (DC)	14 V
Rated current	16 A	Rated voltage (AC/DC)	12 V
Max. continuous voltage, U _c (AC)	20 V	Max. continuous voltage, U _c (DC)	24 V
Operating current, I _{max.}	16 A	Highest continuous voltage (AC)	20 V
Temporary surge voltage (over-voltage) - TOV	22 V	Combined pulse U _{OC}	4 kV
Fuse, max.	16 A	Short-circuit current rating I _{SCCR}	1.5 kA
Discharge current, nominal, per path, (8/20 µs)	2 kA	Discharge current, max. (8/20 µs)	2 kA
Protection level U _p (typ.)	≤ 0.98 kV	Leakage current at U _n	30 µA
Signalling contact	250 V 1 A 1 NC	Standards	IEC61643-11, EN61643-11
Colour	Red	Requirements class, acc. to EN 61643-11	T3
Requirements category acc. to IEC 61643-11	Type III	Response time	< 100 ns
Mains frequency at 250 V _{max}	50...60 Hz		

Technical data, signal line

Rated current I _N	16 A
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Connection data

Clamping range, rated connection	2.5 mm ²	Clamping range, rated connection, min.	0.5 mm ²
Clamping range, rated connection, max.	2.5 mm ²	Wire connection cross section, stranded, rated connection, min.	0.5 mm ²
Wire connection cross section, stranded, rated connection, max.	2.5 mm ²	Tightening torque, min.	0.4 Nm
Tightening torque, max.	0.5 Nm	Stripping length, rated connection	7 mm
Wire connection cross section, finely stranded, max.	2.5 mm ²		

Connection data, remote alert

Connection type [remote alert]	Screw connection	Max. torque [remote alert]	0.22 Nm
Stripping length [remote alert]	5 mm	Cross-section for connected wire, solid core, min. [remote alert]	0.2 mm ²
Cross-section for connected wire, solid core, max. [remote alert]	1.5 mm ²		

Classifications

ETIM 3.0	EC000941	UNSPSC	30-21-19-21
eClass 5.1	27-13-08-01	eClass 6.2	27-13-08-01
eClass 7.1	27-14-02-01		

Approvals

Approvals



ROHS

Conform

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Package insert	Instruction sheet
Declaration of Conformity	CE document
EPLAN	1351550000.ema
3D Modell	

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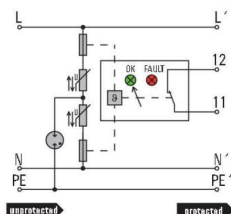
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Zeichnungen

Electric symbol



Circuit diagram