

VPU series

VPU II 1 SP 127V R

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Similar to illustration

Weidmüller VPU I (Type I), VPU II (Type II) and VPU III (Type III) surge protection products effectively reduce the interference coupling that can occur from transient surge voltages, even significantly below the limits prescribed by insulation co-ordination according to EN 60664-3 / DIN VDE 0110. This means that the whole installation is exposed to fewer malfunctions. The arrestors are co-ordinated using technical means. This means that decoupling between types I, II and III is not necessary. The arrestors are tested according to product standard IEC 61643-11 / DIN EN 61643-11 and can be installed in systems according to IEC 61643-12 / VDE V0675-6-12 and IEC 62305-4 / VDE 0185-4. This lightning and surge protection device is suited for installation in power supply systems for the US market in accordance with UL 1449 Ed.4. Weidmüller offers different products depending on the particular mains network type and voltage level.



General ordering data

Delivery status	This article will no longer be available in the future.
Available until	2020-05-01
Type	VPU II 1 SP 127V R
Order No.	2025040000
Version	Surge voltage arrester, Low voltage, with remote contact, TN-S->L-(PE)N, N-PE(U ₀ ≤120 V)
GTIN (EAN)	4050118404807
Qty.	1 pc(s).
Alternative product	2591660000

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Technical data
Dimensions and weights

Width	18 mm	Width (inches)	0.709 inch
Height	106 mm	Height (inches)	4.173 inch
Depth	69 mm	Depth (inches)	2.717 inch
Mounting dimension - height	75 mm	Net weight	150 g

Temperatures

Humidity	5 - 95% rel. humidity	Operating temperature, max.	70 °C
Operating temperature, min.	-40 °C	Storage temperature, max.	85 °C
Storage temperature, min.	-40 °C	Operating temperature	-40 °C...70 °C
Storage temperature	-40 °C...85 °C		

Rated data UL

Certificate No. (cURus)	E354261	Continuous voltage U_C , max.	180 V
Rated Voltage U_N	127 V	Test Voltage 39.1 (UL 1449)	240 V
VPR (L/N-PE)	800 V	MCOV (L/N-PE)	180 Vac
SCCR	200 kA	I_n	20 kA
Category	SPD TYPE 1CA/2CA		

Connection data, remote alert

Connection type	PUSH IN	Stripping length	8 mm
Cross-section for connected wire, solid core, min.	0.14 mm ²	Cross-section for connected wire, solid core, min. (AWG)	AWG 25
Cross-section for connected wire, solid core, max.	1.5 mm ²	Cross-section for connected wire, solid core, max. (AWG)	AWG 15

General data

Colour	black, orange	Design	Installation housing; 1TE, Insta IP 20
Optical function display	green = OK; red = 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	III
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Rated data IEC / EN

Discharge current I_{max} (8/20µs) wire-PE	40 kA	Discharge current I_n (8/20µs) wire-PE	20 kA
Follow-on current extinguishing capability I_{fi}	Not available due to technical reasons	Fuse	125 A gL > (if back up fuse > 125 A)
Low voltage network	TN-S->L-(PE)N, N-PE($U_0 \leq 120$ V)	Max. continuous voltage, U_c (AC)	180 V
Protection level U_p at I_N (L/N-PE)	≤ 0.9 kV	Requirements category acc. to IEC 61643-11	Type II
Requirements class, acc. to EN 61643-11	T2	Response time	≤ 25 ns
Short-circuit current rating I_{SCCR}	25 kA	Signalling contact	250 V 1A 1CO
Voltage type	AC		

Creation date August 26, 2019 9:18:04 AM CEST

Catalogue status 16.08.2019 / We reserve the right to make technical changes.

Data sheet

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Technical data

Connection data

Type of connection	Screw connection	Stripping length, rated connection	15 mm
Tightening torque, min.	2 Nm	Tightening torque, max.	3 Nm
Wire connection cross section AWG, min.	AWG 14	Wire connection cross section AWG, max.	AWG 0
Wire cross-section, solid, min.	4 mm ²	Wire cross-section, solid, max.	16 mm ²
Wire connection cross-section, finely stranded, min.	2.5 mm ²	Wire connection cross section, finely stranded, max.	25 mm ²
Conductor cross-section, flexible, AEH (DIN 46228-1), min.	2.5 mm ²	Conductor cross-section, flexible, AEH (DIN 46228-1), max.	25 mm ²
Connection cross-section, stranded, min.	4 mm ²	Connection cross-section, stranded, max.	50 mm ²

Ratings IECEx/ATEX/cUL

cUL certificate	UL 1449 ED.4 Certificate
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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	27-13-08-05	eClass 9.1	27-13-08-05

Approvals

Approvals



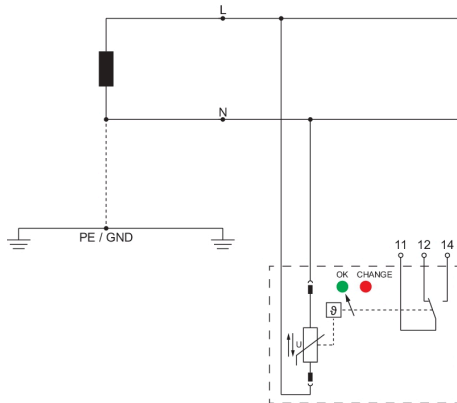
ROHS	Conform
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Downloads

Approval/Certificate/Document of Conformity	EAC VPU SERIES CE PAPER Declaration of Conformity
Engineering Data	STEP
User Documentation	Instruction sheet

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Drawings**Electric symbol**

Schematic circuit diagram UL / IEC / EN