

VPU series

VPU AC II 2 R 750/35

Weidmüller Interface GmbH & Co. KG

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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 due to transient surge voltages, even significantly below the limits prescribed by insulation co-ordination according to EN 60664-3 / DIN VDE 0110-3. This means that the whole installation is exposed to fewer malfunctions. The arresters are co-ordinated using technical means. This means that decoupling between Types I, II and III is unnecessary. The arresters 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 0675-6-12 and IEC 62305-4 / VDE 0185-4. This lightning and surge protection device is suited for installation in power supply systems. Weidmüller offers different products depending on the particular mains network type and voltage level. A special Type I and Type II protective device is even available for photovoltaic applications.

General ordering data

Type	VPU AC II 2 R 750/35
Order No.	2591310000
Version	Surge voltage arrester, Low voltage, Surge protection, with remote contact, Single-phase, $U_p(L/N-PE) \leq 3,4 \text{ kV}$
GTIN (EAN)	4050118599626
Qty.	1 pc(s).

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Technical data
Dimensions and weights

Width	36 mm	Width (inches)	1.417 inch
Height	111.6 mm	Height (inches)	4.394 inch
Depth	68 mm	Depth (inches)	2.677 inch
Depth including DIN rail	76 mm	Net weight	298 g

Temperatures

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

Rated data UL

Voltage type	AC	Certificate No. (cURus)	E354261
Ambient temperature (operational), min.	-40 °C	Ambient temperature (operational), max.	85 °C
Rated Voltage U_N	600 V	VPR (L-L)	5,000 V
VPR (L-PE)	2,500 V	VPR (N-PE)	2,500 V
MCOV (L/N-PE)	750 Vac	SCCR	200 kA
I_n	20 kA	Category	SPD TYPE 1CA
MODE	all modes	Altitude	≤ 4000 m

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, max.	1.5 mm ²

General data

Altitude	≤ 4000 m	Colour	orange, black
Design	Installation housing; 2TE, Insta IP 20	Optical function display	green = OK; red = arrester is defective - replace
Protection degree	IP20 in installed state	Rail	TS 35
Segment	Power distribution	UL 94 flammability rating	V-0
Version	Surge protection, with remote contact		

Insulation coordination acc. to EN 50178

Pollution severity	2	Surge voltage category	III
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Technical data

Rated data IEC / EN

Rated voltage (AC)	690 V	SPD type	T2
Voltage type	AC	Max. continuous voltage, U_c (AC)	750 V
Max. continuous voltage, U_c (N-PE)	750 V	Low voltage network	Single-phase
Discharge current I_n (8/20 μ s) wire-PE	20 kA	Discharge current I_{max} (8/20 μ s) wire-PE	35 kA
Frequency range, max.	60 Hz	Frequency range, min.	50 Hz
Fuse	No Fuse necessary ≤ 315 A gG, 250 A gG @50 kA I_{sc} , 315 A gG @25 kA I_{sc}	Short-circuit current rating I_{sc}	50 kA
Follow-on current extinguishing capability I_{fi}	Follow current need not be taken into account	Standards	IEC61643-11, EN61643-11, UL 1449 Ed.4
Energy coordination (≤ 10 m)	Type II, Type III	Protection level U_p (typ.)	$\leq 3,4$ kV
Leakage current at U_n	0.5 mA	Temporary surge voltage (over-voltage) - TOV	871 V
Number of poles	2	Requirements category acc. to IEC 61643-11	Type II
Requirements class, acc. to EN 61643-11	T2	Response time	≤ 25 ns
Signalling contact	250 V 1A 1CO		

Connection data

Wire connection method	Screw connection	Type of connection	Screw connection
Stripping length, rated connection	15 mm	Tightening torque, min.	2 Nm
Tightening torque, max.	4.5 Nm	Clamping range, rated connection	16 mm ²
Clamping range, min.	4 mm ²	Clamping range, max.	35 mm ²
Wire cross-section, solid, min.	2.5 mm ²	Wire cross-section, solid, max.	35 mm ²
Wire connection cross-section, finely stranded, min.	4 mm ²	Wire connection cross section, finely stranded, max.	35 mm ²
Conductor cross-section, flexible, AEH (DIN 46228-1), min.	2.5 mm ²	Conductor cross-section, flexible, AEH (DIN 46228-1), max.	35 mm ²
Connection cross-section, stranded, min.	2.5 mm ²	Connection cross-section, stranded, max.	35 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 Declaration of Conformity
Engineering Data	STEP
User Documentation	Instruction sheet

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Catalogue status 15.05.2020 / We reserve the right to make technical changes.

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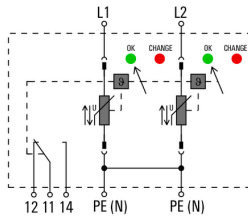
Data sheet

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Drawings

Electric symbol



Schematic circuit diagram