VPU AC II 3+1 R 350/50

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

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

Version	Surge voltage arrester, Low voltage, Surge protection, with remote contact, TN-C-S, TN-S, TT, IT with N, IT without N
Order No.	2637060000
Type	VPU AC II 3+1 R 350/50
GTIN (EAN)	4050118679328
Qty.	1 pc(s).
Replacement parts	2591340000 2591190000 2855300000

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Technical data

Dimensions and weights

Depth	68 mm	Depth (inches)	2.677 inch
Depth including DIN rail	76 mm	Height	104.5 mm
Height (inches)	4.114 inch	Width	72 mm
Width (inches)	2.835 inch	Net weight	490 g

Temperatures

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

Rated data UL

Ambient temperature (operational), max.	85 °C	Rated Voltage U_N	277 V
VPR (N-PE)	1,000 V	MCOV (L-PE)	350 V
MCOV (N-PE)	305 V	SCCR	200 kA
I_n	20 kA	Category	SPD TYPE 1CA
Ambient temperature (operational), min.	-40 °C	Certificate No. (cURus)	E354261
MODE	all modes	VPR (L-L)	2,000 V
VPR (L-N)	1,000 V	VPR (L-PE)	1,000 V
Voltage type	AC	UL Energy Networks	3-phase WYE, High-Leg Delta

Connection data, remote alert

Connection type	PUSH IN	Cross-section for connected wire, solid core, max.	1.5 mm²
Cross-section for connected wire, solid core, min.	0.14 mm²	Stripping length	8 mm

General data

Colour	orange, black, blue	Design	Installation housing; 4TE, Insta IP 20
Operating altitude	≤ 4000 m	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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Rated data IEC / EN

Combined pulse U_{OC}	6 kV	Discharge current (type III)	3 kA
Discharge current I_{max} (8/20µs) N-PE	65 kA	Discharge current I_{max} (8/20µs) wire-PE	50 kA
Discharge current I_n (8/20µs) N-PE	40 kA	Discharge current I_n (8/20µs) wire-PE	20 kA
Energy coordination (≤10 m)	Type II, Type III	Follow-on current extinguishing capability I_{fi}	Follow current need not be taken into account
Frequency range, max.	60 Hz	Frequency range, min.	50 Hz
Fuse	No Fuse neccessary ≤315 A gG, 250 A gG @50 kA Isccr, 315 A gG @25 kA Isccr	Leakage current at U_n	1 µA
Low voltage network	TN-C-S, TN-S, TT, IT with N, IT without N	Max. continuous voltage, Uc (AC)	350 V
Number of poles	4	Protection level U_p at I_N (L/N-PE)	≤ 1.75 kV
Protection level U_p at I_N (N-PE)	≤ 1.5 kV	Rated voltage (AC)	230 V
Requirements category acc. to IEC 61643-11	Type II, Type III	Requirements class, acc. to EN 61643-11	T2, T3
Response time	≤ 25 ns	SPD type	T2
Short-circuit current rating I_{SCCR}	50 kA	Signalling contact	250 V 1A 1CO
Standards	IEC61643-11, EN61643-11, UL 1449	Temporary surge voltage (over-voltage) - TOV	403 V
Voltage type	AC		

Connection data

Stripping length	15 mm	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 mm²	Clamping range, min.	4 mm²
Clamping range, max.	35 mm²	Wire cross-section, solid, min.	1.5 mm²
Wire cross-section, solid, max.	16 mm²	Wire connection cross section, finely stranded, min.	1.5 mm²
Wire connection cross section, finely stranded, max.	25 mm²	Connection cross-section, stranded, min.	1.5 mm²
Connection cross-section, stranded, max.	35 mm²		

Guarantee

Time interval	5 years

Classifications

ETIM 6.0	EC000941	ETIM 7.0	EC000941
ETIM 8.0	EC000941	ETIM 9.0	EC000941
ECLASS 9.0	27-13-08-05	ECLASS 9.1	27-13-08-05
ECLASS 10.0	27-13-08-05	ECLASS 11.0	27-13-08-05
ECLASS 12.0	27-17-90-90	ECLASS 13.0	27-17-90-90

Important note

Product information	Only applicable to IT power systems where the earth on the distribution transformer is interconnected with the earth on the consumer side (RE=RA in Figure 44.A1 of IEC 60634-4-44:2018). For use in DC applications, please use the fuse of SIBA Type NH2XL aR/aSF DC 1500 V

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Technical data

Approvals

Approvals	
ROHS	Conform
UL File Number Search	UL Website
Certificate No. (cURus)	E354261

Downloads

Approval/Certificate/Document of Conformity	EU_Konformitätserklärung / EU_Declaration_of_Conformity
Engineering Data	CAD data – STEP
User Documentation	Beipackzettel / Instruction sheet
Catalogues	Catalogues in PDF-format

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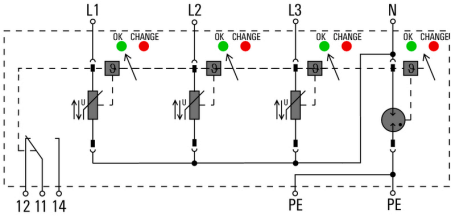
Drawings

Electric symbol



Schematic circuit diagram