

VPU AC I 1+1 R 300/12.5 LCF

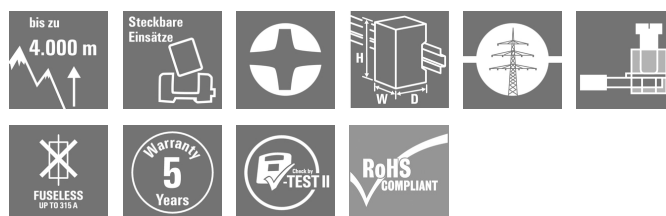
Weidmüller Interface GmbH & Co. KG

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, Single-phase, TN, TT, IT with N, IT without N
Order No.	2636940000
Type	VPU AC I 1+1 R 300/12.5 LCF
GTIN (EAN)	4050118678680
Qty.	1 pc(s).
Replacement parts	2636900000 2591590000 2855300000

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Technical data

Dimensions and weights

Depth	91 mm	Depth (inches)	3.583 inch
Height	104.5 mm	Height (inches)	4.114 inch
Width	36 mm	Width (inches)	1.417 inch
Net weight	315 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	240 V
VPR (N-PE)	1,800 V	MCOV (L-PE)	300 V
MCOV (L/N-PE)	300 V	MCOV (N-PE)	305 V
I_n	20 kA	Category	SPD TYPE 4CA
Ambient temperature (operational), min. -40 °C		Certificate No. (cURus)	E3542610000
MODE	L-N, L-G, N-G	Measured. Limiting Voltage	1,220 V
VPR (L-N)	1,220 V	VPR (L-PE)	3,020 V
Voltage type	AC		

Connection data, remote alert

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

General data

Number of poles	2	Protection degree	IP20 in installed state
Colour	orange, black, blue		

Insulation coordination acc. to EN 50178

Pollution severity	2	Surge voltage category	IV, III, II, I
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Technical data

Rated data IEC / EN

Discharge current $I_{\max}$ (8/20 μ s) N-PE	50 kA
Discharge current I_n (8/20 μ s) N-PE	50 kA
Energy coordination (≤ 10 m)	Type I, Type II, Type III
Frequency range, max.	60 Hz
Fuse	No Fuse necessary ≤ 315 A gG, 250 A gG @50 kA Iscrr, 315 A gG @25 kA Iscrr
Leakage current at U_n	1 μ A
Lightning test current, I_{imp} (10/350 μ s) (N-PE)	50 kA
Mains voltage	230 V / 400 V
Max. continuous voltage, U_c (N-PE)	305 V
Protection level U_p at I_N (L/N-PE)	≤ 1.5 kV
Rated voltage (AC)	230 V
Requirements class, acc. to EN 61643-11	T1, T2
Short-circuit current rating I_{SCCR}	50 kA
Standards	IEC 61643-11, EN 61643-11, UL 1449
Temporary surge voltage (over-voltage) - TOV	442 V

Discharge current $I_{\max}$ (8/20 μ s) wire-PE	65 kA
Discharge current I_n (8/20 μ s) wire-PE	20 kA
Follow-on current extinguishing capability I_{fi}	Not available due for technical reasons
Frequency range, min.	50 Hz
Integrated back-up fuse	No
Lightning test current I_{imp} (10/350 μ s) (L-PE)	12.5 kA
Low voltage network	Single-phase, TN, TT, IT with N, IT without N
Max. continuous voltage, U_c (AC)	300 V
Number of poles	2
Protection level U_p at I_N (N-PE)	≤ 1.5 kV
Requirements category acc. to IEC 61643-11	Type I, Type II
Response time	≤ 25 ns
Signalling contact	250 V 1A 1CO
Suitable for	Count-in installation (leakage current free)
Voltage type	AC

Connection data

Stripping length	18 mm
Type of connection	Screw connection
Tightening torque, min.	3 Nm
Clamping range, rated connection	16 mm ²
Clamping range, max.	35 mm ²
Wire cross-section, solid, max.	35 mm ²
Wire connection cross section, finely stranded, max.	25 mm ²
Connection cross-section, stranded, max.	35 mm ²

Wire connection method	Screw connection
Stripping length, rated connection	18 mm
Tightening torque, max.	4.5 Nm
Clamping range, min.	1.5 mm ²
Wire cross-section, solid, min.	1.5 mm ²
Wire connection cross section, finely stranded, min.	1.5 mm ²
Connection cross-section, stranded, min.	1.5 mm ²

Electrical data

Voltage type	AC
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Guarantee

Time interval	5 years
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Technical data

Classifications

ETIM 6.0	EC000941	ETIM 7.0	EC000941
ETIM 8.0	EC000941	ETIM 9.0	EC000941
ETIM 10.0	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	ECLASS 14.0	27-17-90-90
ECLASS 15.0	27-17-90-90		

Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption
REACH SVHC	No SVHC above 0.1 wt%

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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Approvals

Approvals



Approvals MAMID	https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-T1z1mm-S800/ https://mdcop.weidmueller.com/mediadelivery/rendition/900_319230/-T1z1mm-S800/ https://mdcop.weidmueller.com/mediadelivery/rendition/900_319263/-T1z1mm-S800/
ROHS	Conform
UL File Number Search	UL Website
Certificate No. (cURus)	E3542610000

Downloads

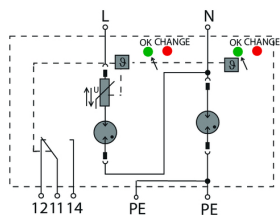
Approval/Certificate/Document of Conformity	EU_Konformitätserklärung / EU_Declaration_of_Conformity
Engineering Data	CAD data – STEP
Tender specification	Ausschreibungstext DE Tenderspecification EN
User Documentation	Beipackzettel / Instruction sheet
Catalogues	Catalogues in PDF-format

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www.weidmueller.com**Drawings****Electric symbol**

Schematic circuit diagram

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www.weidmueller.com**Accessories****Crosshead screwdriver Phillips**

VDE insulated crosshead screwdriver, for Phillips screws, SDIK PH DIN 7438, ISO 8764/2-PH, output to ISO 8764-PH, SoftFinish grip

General ordering data

Type	SDIK PH1 X 80	Version
Order No.	2749890000	Screwdriver, Blade width (B): 1 mm, 80 mm, Blade thickness (A): 1
GTIN (EAN)	4050118897098	
Qty.	1 pc(s).	

Slotted screwdriver

VDE insulated slot-head screwdriver, SDI DIN 7437, ISO 2380/2, drive output acc. to DIN 5264, ISO 2380/1. SoftFinish grip

General ordering data

Type	SDIS 1.0X5.5X125	Version
Order No.	2749850000	Screwdriver, Blade width (B): 5.5 mm, Blade length: 125 mm, Blade
GTIN (EAN)	4050118897050	thickness (A): 1 mm
Qty.	1 pc(s).	

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www.weidmueller.com**Accessories****Blank**

ESG is the tried-and-tested marker in MultiCard format for use on many well-known electrical devices. The result is high-quality device marking with a high-contrast appearance.

Various types are available for devices from manufacturers like Siemens, ABB, Beckhoff etc.

Advantages at a glance:

- Tags for universal usage, self-adhesive or clip-on tags, depending on type
- For aligned equipment, e.g. circuit breakers, we supply ESG markers for clipping onto tag rails
- Individual laser-quality printing according to specifications

For custom printing: Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

General ordering data

Type	ESG 6/15 K MC NE WS	Version
Order No.	1880100000	ESG, Device markers x 15 mm, PA 66, Colour: white, Self-adhesive
GTIN (EAN)	4032248478781	
Qty.	200 pc(s).	

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Replacement parts

VPU Series



Extensive accessories round off the product range

General ordering data

Type	PLUG VPU AC
Order No.	2855300000
GTIN (EAN)	4064675533283
Qty.	10 pc(s).

Spare arrester



In the event of a defective arrester, you can easily reorder this spare arrester, replace the defective arrester and thus restore protection.

General ordering data

Type	VPU AC I O 300/12.5 LCF	Version
Order No.	2636900000	Surge protection
GTIN (EAN)	4050118679243	
Qty.	1 pc(s).	
Type	VPU AC I O N-PE 305/50	Version
Order No.	2591590000	Spare arrester, Surge protection
GTIN (EAN)	4050118599350	
Qty.	1 pc(s).	