

VPU AC I 1+1 300/12.5 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, Single-phase, TN-C, TN-C-S, TN-S, TT, TN, IT with N, IT without N
Order No.	2636930000
Type	VPU AC I 1+1 300/12.5 LCF
GTIN (EAN)	4050118678963
Qty.	1 pc(s).
Replacement parts	2636900000 2591590000

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Technical data

Dimensions and weights

Depth	91 mm	Depth (inches)	3.583 inch
Height	96.3 mm	Height (inches)	3.791 inch
Width	36 mm	Width (inches)	1.417 inch
Net weight	309 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 (N-PE)	305 V	I_n	20 kA
Category	SPD TYPE 4CA	Ambient temperature (operational), min. -40 °C	
Certificate No. (cURus)	E354261	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

General data

Colour	orange, black, blue	Design	Installation housing; 2TE, 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	Suitable for	Count-in installation (leakage current free)
UL 94 flammability rating	V-0	Version	Surge protection

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
Lightning test current I_{imp} (10/350 μ s) (L-PE)	12.5 kA
Low voltage network	Single-phase, TN-C, TN-C-S, TN-S, TT, TN, 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, ≤ 100 ns
Signalling contact	No
Suitable for	Count-in installation (leakage current free)
Voltage type	AC

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
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	IEC61643-11, EN61643-11, UL 1449
Temporary surge voltage (over-voltage) - TOV	442 V

Connection data

Stripping length	15 mm
Type of connection	Screw connection
Tightening torque, min.	2 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	15 mm
Tightening torque, max.	4.5 Nm
Clamping range, min.	4 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

Guarantee

Time interval	5 years
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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

Environmental Product Compliance

REACH SVHC	/
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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

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](#)

Tender specification

[Ausschreibungstext DE](#)[Tenderspecification EN](#)

User Documentation

[Beipackzettel / Instruction sheet](#)

Catalogues

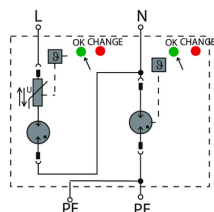
[Catalogues in PDF-format](#)

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

Schematic circuit diagram

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Accessories

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).	

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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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).	

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www.weidmueller.com**Replacement parts****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, $U_p(L/N-PE) \leq 1.5 \text{ kV}$
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).	