

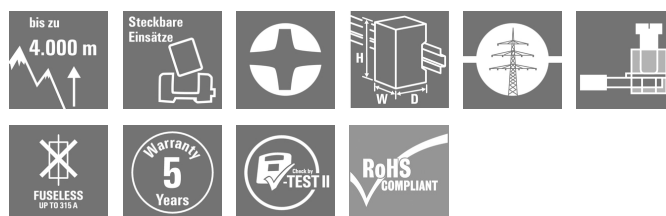
VPU AC I 1 R 300/12.5 LCF
Weidmüller Interface GmbH & Co. KG

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
Order No.	2636960000
Type	VPU AC I 1 R 300/12.5 LCF
GTIN (EAN)	4050118678949
Qty.	1 pc(s).
Replacement parts	2636900000 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	18 mm	Width (inches)	0.709 inch
Net weight	189 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
MCOV (L-PE)	300 V	MCOV (L/N-PE)	300 V
I_n	20 kA	Category	SPD TYPE 4CA
Ambient temperature (operational), min. -40 °C		Certificate No. (cURus)	E354261
MODE	L-G	Measured. Limiting Voltage	1,220 V
VPR (L-PE)	1,220 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	1	Protection degree	IP20 in installed state
Colour	orange, black		

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) wire-PE 65 kAEnergy 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
I_{sc}cr, 315 A gG @25 kA
I_{sc}crLeakage current at U_n 1 μ A

Low voltage network

Single-phase, TN

Max. continuous voltage, U_c (AC)

300 V

Protection level U_p at I_N (L/N-PE) ≤ 1.5 kVRequirements 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 (leak-
age current free)

Voltage type

AC

Discharge current I_n (8/20 μ s) wire-PE 20 kAFollow-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

Mains voltage

230 V / 400 V

Number of poles

1

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 1449Temporary surge voltage (over-voltage) -
TOV

442 V

Connection data

Stripping length 18 mm

Type of connection Screw connection

Tightening torque, min. 3 Nm

Clamping range, rated connection 16 mm²Clamping range, max. 35 mm²Wire cross-section, solid, max. 35 mm²Wire connection cross section, finely
stranded, max. 25 mm²Connection cross-section, stranded,
max. 35 mm²

Wire connection method Screw connection

Stripping length, rated connection 18 mm

Tightening torque, max. 4.5 Nm

Clamping range, min. 1.5 mm²Wire cross-section, solid, min. 1.5 mm²Wire connection cross section, finely
stranded, min. 1.5 mm²Connection cross-section, stranded, min. 1.5 mm²

Electrical data

Voltage type AC

Guarantee

Time interval 5 years

Classifications

ETIM 6.0 EC000941

ETIM 8.0 EC000941

ETIM 10.0 EC000941

ECLASS 9.1 27-13-08-05

ECLASS 11.0 27-13-08-05

ECLASS 13.0 27-17-90-90

ECLASS 15.0 27-17-90-90

ETIM 7.0 EC000941

ETIM 9.0 EC000941

ECLASS 9.0 27-13-08-05

ECLASS 10.0 27-13-08-05

ECLASS 12.0 27-17-90-90

ECLASS 14.0 27-17-90-90

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www.weidmueller.com**Technical data****Environmental Product Compliance**

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

Important note

Product information	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/
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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

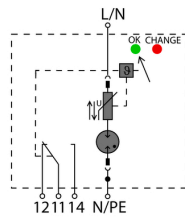
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Drawings

Electric symbol



Schematic circuit diagram

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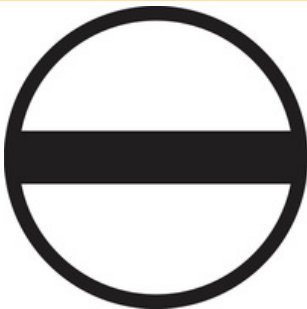
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www.weidmueller.com**Accessories****Crosshead screwdriver Phillips**

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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www.weidmueller.com**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).	