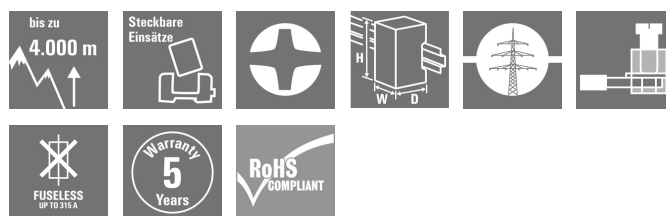


VPU AC I 2 R 300/12.5 LH**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**Product image**

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-S
Order No.	2983550000
Type	VPU AC I 2 R 300/12.5 LH
GTIN (EAN)	4099986839670
Qty.	1 pc(s).

VPU AC I 2 R 300/12.5 LH

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Technical data

Dimensions and weights

Depth	70 mm	Depth (inches)	2.756 inch
Height	105 mm	Height (inches)	4.134 inch
Width	36 mm	Width (inches)	1.417 inch
Net weight	372 g		

Temperatures

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

Rated data UL

Ambient temperature (operational), max. 85 °C		Rated Voltage U_N	240 V
MCOV (N-PE)	300 V	I_n	20 kA
Category	SPD TYPE 4CA	Ambient temperature (operational), min. -40 °C	
Certificate No. (cURus)	E3542610000	MODE	L-N
Measured. Limiting Voltage	1,200 V	Voltage type	AC
UL Energy Networks	Split-Phase		

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		

Insulation coordination acc. to EN 50178

Pollution severity	2	Surge voltage category	III
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Technical data

Rated data IEC / EN

Discharge current $I_{\max}$ (8/20 μ s) wire-PE 50 kAEnergy coordination (≤ 10 m)

Type I, Type II, Type III

Frequency range, max.

60 Hz

Fuse

No Fuse necessary ≤ 160
A gGLeakage current at U_n 6 μ A

Low voltage network

Single-phase, TN-S

Max. continuous voltage, U_c (AC)

300 V

Protection level U_p at I_N (L/N-PE) ≤ 1.5 kVProtection level, U_p wire - wire

1,500 V

Requirements category acc. to IEC
61643-11

Type I, Type II

Response time

 ≤ 25 ns

Signalling contact

250 V 1A 1CO

Temporary surge voltage (over-voltage) -
TOV

337 V

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

2

Protection level, U_p wire - PE

1,500 V

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

Voltage type

AC

Connection data

Stripping length 18 mm

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

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

Environmental Product Compliance

RoHS Compliance Status Compliant without exemption

REACH SVHC No SVHC above 0.1 wt%

Creation date May 11, 2025 10:36:03 PM CEST

Catalogue status 26.04.2025 / We reserve the right to make technical changes.

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www.weidmueller.com**Technical data****Important note**

Product information

For use in DC applications, please use the fuse of SIBA Type NH2XL aR/aSF DC 1500 V

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](#)

User Documentation

[Beipackzettel / Instruction sheet](#)

Catalogues

[Catalogues in PDF-format](#)

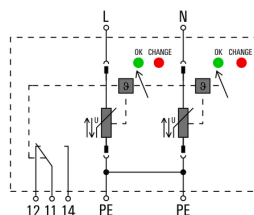
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Drawings

Electric symbol



Schematic circuit diagram

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www.weidmueller.com**Accessories****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 0 300/12.5 LH	Version
Order No.	2983620000	Surge protection
GTIN (EAN)	4099986839748	
Qty.	1 pc(s).	