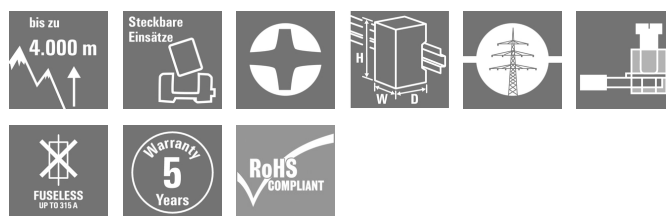


VPU AC I 3+1 R 300/12.5 LH**Weidmüller Interface GmbH & Co. KG**

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, TN-C, TN-S, TT, IT with N, IT without N
Order No.	2983590000
Type	VPU AC I 3+1 R 300/12.5 LH
GTIN (EAN)	4099986839717
Qty.	1 pc(s).

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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	72 mm	Width (inches)	2.835 inch
Net weight	653.5 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 (L-PE) 600 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	Measured. Limiting Voltage	1,200 V
Voltage type AC	UL Energy Networks	3-phase WYE

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	4	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) N-PE	100 kA	Discharge current $I_{\max}$ (8/20 μ s) wire-PE	50 kA
Discharge current I_n (8/20 μ s) N-PE	50 kA	Discharge current I_n (8/20 μ s) wire-PE	20 kA
Energy coordination (≤ 10 m)	Type I, Type II, Type III	Follow-on current extinguishing capability I_{fi}	Not available due for technical reasons
Frequency range, max.	60 Hz	Frequency range, min.	50 Hz
Fuse	No Fuse necessary ≤ 160 A gG	Integrated back-up fuse	No
Leakage current at U_n	6 μ A	Lightning test current I_{imp} (10/350 μ s) (L-PE)	12.5 kA
Lightning test current, I_{imp} (10/350 μ s) (N-PE)	50 kA	Low voltage network	TN-C, TN-S, TT, IT with N, IT without N
Mains voltage	230 V / 400 V	Max. continuous voltage, U_c (AC)	305 V
Number of poles	4	Protection level U_p at I_N (L/N-PE)	≤ 1.5 kV
Protection level U_p at I_N (N-PE)	≤ 1.5 kV	Protection level, U_p wire - PE	1,500 V
Protection level, U_p wire - wire	1,500 V	Rated voltage (AC)	230 V
Requirements category acc. to IEC 61643-11	Type I, Type II	Requirements class, acc. to EN 61643-11	T1, T2
Response time	≤ 25 ns	Short-circuit current rating I_{SCCR}	50 kA
Signalling contact	250 V 1A 1CO	Standards	IEC 61643-11, EN 61643-11, UL 1449
Temporary surge voltage (over-voltage) - TOV	337 V	Voltage type	AC

Connection data

Stripping length	18 mm	Wire connection method	Screw connection
Tightening torque, min.	3 Nm	Tightening torque, max.	4.5 Nm
Clamping range, rated connection	16 mm ²	Clamping range, min.	1.5 mm ²
Clamping range, max.	35 mm ²	Wire cross-section, solid, min.	1.5 mm ²
Wire cross-section, solid, max.	35 mm ²	Wire connection cross section, finely stranded, min.	1.5 mm ²
Wire connection cross section, finely stranded, max.	25 mm ²	Connection cross-section, stranded, min.	1.5 mm ²
Connection cross-section, stranded, max.	35 mm ²		

Electrical data

Voltage type	AC
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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
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		

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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)	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

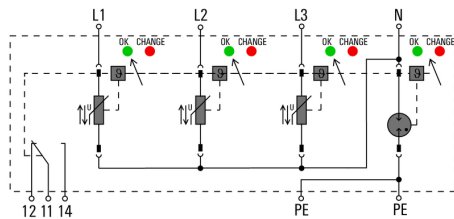
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Drawings

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 N-PE 305/50 ...	Version
Order No.	2983630000	Surge protection
GTIN (EAN)	4099986839755	
Qty.	1 pc(s).	
Type	VPU AC I 0 300/12.5 LH	Version
Order No.	2983620000	Surge protection
GTIN (EAN)	4099986839748	
Qty.	1 pc(s).	