

VPU ZPA S I 3+1 R 300/12,5**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**Product image**

Similar to illustration

Lightning arresters for 40 mm rail systems

- Simple and safe to use and install
- Complete and permanent status control
- Leakage current free surge protection
- Application-specific application classes with 7.5 kA and 12.5 kA discharge current

General ordering data

Version	Surge voltage arrester, Low voltage, Leakage-current-free, TN-C-S, TN-S, TT, IT with N
Order No.	2830910000
Type	VPU ZPA S I 3+1 R 300/12,5
GTIN (EAN)	4064675390091
Qty.	1 pc(s).

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Technical data

Dimensions and weights

Depth	101.6 mm	Depth (inches)	4 inch
Height	230.6 mm	Height (inches)	9.079 inch
Width	36 mm	Width (inches)	1.417 inch
Net weight	638 g		

Temperatures

Storage temperature	-40 °C...85 °C	Operating temperature	-40 °C...85 °C
Humidity	5...95 %, no condensation		

Connection data, remote alert

Connection type	Screw connection	Cross-section for connected wire, solid core, max.	1.5 mm ²
Cross-section for connected wire, solid core, min.	0.14 mm ²	Max. torque	0.4 Nm

General data

Number of poles	4	Protection degree	IP30, in combination with the cover, IP20
Colour	grey		

Rated data IEC / EN

Combined pulse U_{OC}	6 kV	Discharge current I_{max} (8/20µs) N-PE	100 kA
Discharge current I_{max} (8/20µs) wire-PE	40 kA	Discharge current I_n (8/20µs) N-PE	80 kA
Discharge current I_n (8/20µs) wire-PE	20 kA	Energy coordination (≤ 10 m)	Type I, Type II, Type III
Follow-on current extinguishing capability I_{fi}	Follow current need not be taken into account	Fuse	No Fuse necessary ≤ 160 A gG
Integrated back-up fuse	No	Leakage current at U_n	5 µA
Lightning test current I_{imp} (10/350 µs) (L-PE)	12.5 kA	Lightning test current, I_{imp} (10/350 µs) (N-PE)	50 kA
Low voltage network	TN-C-S, TN-S, TT, IT with N	Mains voltage	230 V / 400 V
Max. continuous voltage, U_c (AC)	300 V	Max. continuous voltage, U_c (N-PE)	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	Rated voltage (AC)	240 V
Requirements category acc. to IEC 61643-11	Type I, Type II, Type III	Requirements class, acc. to EN 61643-11	T1, T2, T3
Response time	≤ 100 ns	SPD type	T1, T2, T3
Short-circuit current rating I_{SCCR}	25 kA	Signalling contact	1 CO 250 V AC. 1 A / 125 V DC. 30 mA
Standards	IEC 61643-11, EN 61643-11	Temporary surge voltage (over-voltage) - TOV	442 V
Voltage type	AC		

Connection data

Wire connection method	Screw connection	Type of connection	Clamped
Tightening torque, max.	4.5 Nm	Clamping range, rated connection	16 mm ²
Clamping range, min.	4 mm ²	Clamping range, max.	35 mm ²
Conductor cross-section, flexible, AEH (DIN 46228-1), min.	16 mm ²	Conductor cross-section, flexible, AEH (DIN 46228-1), max.	25 mm ²
Connection cross-section, stranded, min.	16 mm ²	Connection cross-section, stranded, max.	35 mm ²

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

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Technical data

Electrical data

Voltage type AC

Guarantee

Time interval 5 years

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).

Approvals

Approvals



Approvals MAMID https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-T1z1mm-S800/ https://mdcop.weidmueller.com/mediadelivery/rendition/900_319263/-T1z1mm-S800/

ROHS Conform

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](#)

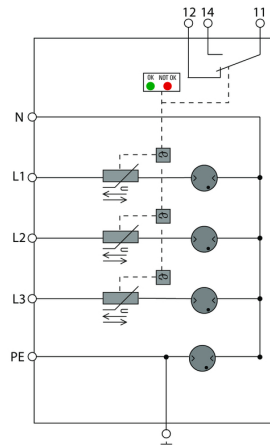
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Drawings

Electric symbol



Circuit diagram

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www.weidmueller.com**Accessories****Accessories****General ordering data**

Type V-ZPA TERMINAL

Order No. [2904470000](#)

GTIN (EAN) 4099986010352

Qty. 1 pc(s).

Type V-ZPA FUSE HOLDER E

Order No. [3038720000](#)

GTIN (EAN) 4099987006422

Qty. 1 pc(s).

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

Order No. [2749890000](#)

GTIN (EAN) 4050118897098

Qty. 1 pc(s).

Version

Screwdriver, Blade width (B): 1 mm, 80 mm, Blade thickness (A): 1

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www.weidmueller.com**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).	