

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

Colour	grey	Design	for 40mm busbars
Operating altitude	≤ 4000 m	Optical function display	green = OK; red = arrester is defective - replace
Protection degree	IP30, in combination with the cover, IP20	Segment	Power distribution
UL 94 flammability rating	V-0	Version	Leakage-current-free
auxiliary contact	No		

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
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

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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

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
ECLASS 14.0	27-17-90-90		

Environmental Product Compliance

REACH SVHC	/
RoHS Compliance Status	Compliant without exemption

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).
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Approvals

Approvals



ROHS	Conform
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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

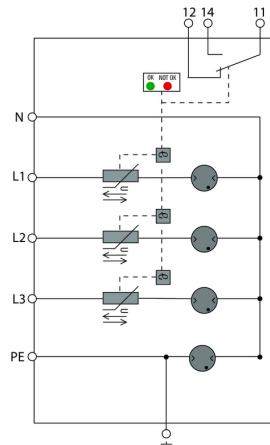
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Drawings

Electric symbol



Circuit diagram

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www.weidmueller.com**Accessories****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).	

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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Type	V-ZPA FUSE HOLDER
Order No.	2904480000
GTIN (EAN)	4099986010383
Qty.	1 pc(s).
Type	V-ZPA TERMINAL
Order No.	2904470000
GTIN (EAN)	4099986010352
Qty.	1 pc(s).