

VPU ZPA S I 3 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
Order No.	2830880000
Type	VPU ZPA S I 3 R 300/12,5
GTIN (EAN)	4064675390060
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	618 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) wire-PE	40 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	20 μA	Lightning test current I _{imp} (10/350 μs) (L-PE)	12.5 kA
Low voltage network	TN-C	Mains voltage	230 V / 400 V
Max. continuous voltage, U _c (AC)	300 V	Number of poles	1
Protection level U _p at I _N (L/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	250 V 1A 1CO
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 17.08.2024 / We reserve the right to make technical changes.

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www.weidmueller.com**Technical data****Guarantee**

Time interval 5 years

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

Approvals

Approvals



ROHS Conform

Downloads

Approval/Certificate/Document of Conformity [EU Konformitätserklärung / EU Declaration of Conformity](#)

Engineering Data [CAD data – STEP](#)

User Documentation [Beipackzettel / Instruction sheet](#)

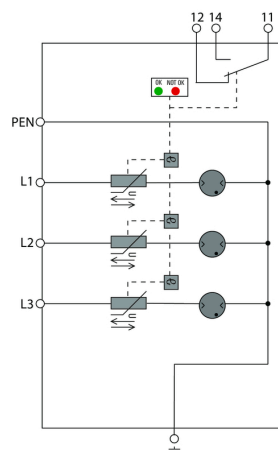
Catalogues [Catalogues in PDF-format](#)

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www.weidmueller.com**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).