

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

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://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.	<a href="#">2830910000</a>
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...70 °C	Operating temperature	-40 °C...70 °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 <sup>2</sup>
Cross-section for connected wire, solid core, min.	0.14 mm <sup>2</sup>	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	IEC61643-11, EN61643-11
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, min.	16 mm <sup>2</sup>
Clamping range, max.	35 mm <sup>2</sup>	Conductor cross-section, flexible, AEH (DIN 46228-1), min.	16 mm <sup>2</sup>
Conductor cross-section, flexible, AEH (DIN 46228-1), max.	25 mm <sup>2</sup>	Connection cross-section, stranded, min.	16 mm <sup>2</sup>
Connection cross-section, stranded, max.	35 mm <sup>2</sup>		

## 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

## 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	<a href="#">EU Konformitätserklärung / EU Declaration of Conformity</a>
Engineering Data	<a href="#">CAD data – STEP</a>
User Documentation	<a href="#">Beipackzettel / Instruction sheet</a>
Catalogues	<a href="#">Catalogues in PDF-format</a>

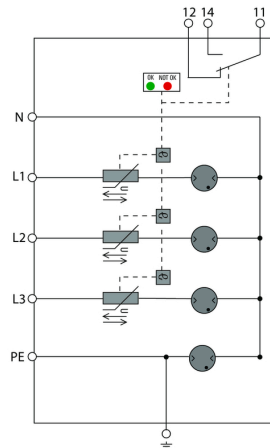
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# Drawings

## Electric symbol



Circuit diagram

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[www.weidmueller.com](http://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.	<a href="#">2749850000</a>	Screwdriver, Blade width (B): 5.5 mm, Blade length: 125 mm, Blade
GTIN (EAN)	4050118897050	thickness (A): 1 mm
Qty.	1 pc(s).	

**Accessories****General ordering data**

Type	V-ZPA TERMINAL
Order No.	<a href="#">2904470000</a>
GTIN (EAN)	4099986010352
Qty.	1 pc(s).

Type	V-ZPA FUSE HOLDER
Order No.	<a href="#">2904480000</a>
GTIN (EAN)	4099986010383
Qty.	1 pc(s).

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## Accessories

## 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.	<a href="#">2749890000</a>	Screwdriver, Blade width (B): 1 mm, 80 mm, Blade thickness (A): 1
GTIN (EAN)	4050118897098	
Qty.	1 pc(s).	