

VPU ZPA S I 3+1 A 300/7,5**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

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, IT without N
Order No.	2830980000
Type	VPU ZPA S I 3+1 A 300/7,5
GTIN (EAN)	4064675390183
Qty.	1 items

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Technical data

Approvals

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ROHS Conform

Dimensions and weights

Depth	236 mm	Depth (inches)	9.2913 inch
Height	236 mm	Height (inches)	9.2913 inch
Width	36 mm	Width (inches)	1.4173 inch
Net weight	661 g		

Temperatures

Storage temperature	-40 °C...85 °C	Ambient temperature	...85 °C
Operating temperature	-40 °C...85 °C	Humidity	5 - 95% rel. humidity

Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption
REACH SVHC	No SVHC above 0.1 wt%

Connection data, remote alert

Cross-section for connected wire, solid core (remote alert), min.	0.25 mm ²	Connection type	PUSH IN
Cross-section for connected wire, solid core (remote alert), max.	1.5 mm ²	Max. torque	0.4 Nm

General data

Optical function display	green = OK; red = arrester is defective - replace	Segment	Power distribution
Version	Leakage-current-free	Colour	grey
Protection degree	IP20	Mounting rail	Busbar
auxiliary contact	Yes	Operating altitude	≤ 4000 m

Rated data IEC / EN

Number of poles	4	Combined pulse UOC	6 kV
Leakage current (nominal voltage)	5 µA	Signalling contact	250 V 1A 1CO
Rated voltage (AC)	240 V	Low voltage network	TN-C-S, TN-S, TT, IT with N, IT without N
Voltage type	AC	Fuse protection	No Fuse necessary ≤160 A gG
Response time / fallback time	≤ 100 ns	Frequency range, max.	60 Hz
Frequency range, min.	50 Hz	Lightning test current limp (10/350 µs) (L-PE)	7.5 kA
Lightning test current, limp (10/350 µs) (N-PE)	30 kA	Requirements class, acc. to EN 61643-11	T1, T2, T3
Requirements category acc. to IEC 61643-11	Type I, Type II, Type III	Continuous voltage (N / PE), max.	305 V
Mains voltage	230 V / 400 V	Discharge current I _{max} (8/20µs) N-PE	100 kA
Discharge current I _n (8/20µs) N-PE	80 kA	Energy coordination (≤10 m)	Type I, Type II, Type III

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SPD type	T1, T2, T3	Protection level Up at IN (L/N-PE)	≤ 1.5 kV
Short-circuit current rating ISCCR	25 kA	Integrated back-up fuse	No
PE conductor current	5 µA		

Connection data

Stripping length	18 mm	Wire connection method	Screw connection
Type of connection	Screw connection	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	Wire cross-section, solid, min.	16 mm ²
Wire cross-section, solid, max.	35 mm ²	Wire connection cross-section, finely stranded, max.	25 mm ²
Conductor cross-section, flexible with wire end ferrule (DIN 46228-1), min.	16 mm ²	Conductor cross-section, flexible with wire end ferrule (DIN 46228-1), max.	25 mm ²
Connection cross-section, stranded, min. 16 mm ²		Connection cross-section, stranded, max.	35 mm ²

Electrical data

Voltage type	AC
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General data

Number of poles	4	Protection degree	IP20
Colour	grey		

Guarantee

Time interval	5 years
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Important note

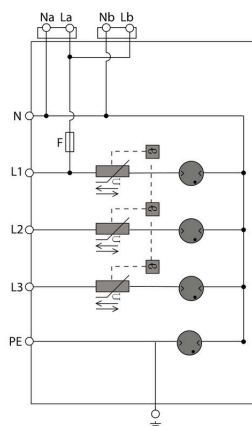
Product information	Only applicable to IT power systems where the earth on the distribution transformer is interconnected with the earth on the consumer side (RE=RA in Figure 44.A1 of IEC 60634-4-44:2018).
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Classifications

ETIM 8.0	EC001457	ETIM 9.0	EC001457
ETIM 10.0	EC001457	ECLASS 14.0	27-17-12-04
ECLASS 15.0	27-17-12-04		

Drawings

Electric symbol



Circuit diagram