Data sheet

VPU ZPA I 3+1 300/12,5

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
Order No.	2674380000
Type	VPU ZPA I 3+1 300/12,5
GTIN (EAN)	4050118686708
Qty.	1 items

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Technical data

Approvals

Approvals	
ROHS	Conform

Dimensions and weights

Depth	99 mm	Depth (inches)	3.8976 inch
Height	229 mm	Height (inches)	9.0157 inch
Width	47 mm	Width (inches)	1.8504 inch
Net weight	100 g		

Temperatures

Storage temperature	-40 °C...70 °C	Ambient temperature	...85 °C
Operating temperature	-40 °C...70 °C	Humidity	5...95 %, no condensation

Environmental Product Compliance

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

General data

Optical function display	green = OK; red = arrester is defective - replace	Segment	Power distribution
Version	Leakage-current-free	Design	for 40mm busbars
UL 94 flammability rating	V-0	Colour	grey
Suitable for	Count-in installation (leakage current free)	Protection degree	IP30, in combination with the cover
Mounting rail	Busbar	Operating altitude	≤ 4000 m

Rated data IEC / EN

Number of poles	4	Leakage current at Un	5 µA
Signalling contact	No	Rated voltage (AC)	240 V
Low voltage network	TN-C-S, TN-S, TT	Protection level Up at IN (N-PE)	≤ 1.5 kV
Voltage type	AC	Temporary surge voltage (over-voltage) - TOV	442 V
Response time / fallback time	≤ 100 ns	Frequency range, max.	60 Hz
Frequency range, min.	50 Hz	Suitable for	Count-in installation (leakage current free)
Standards	IEC61643-11, EN61643-11	Lightning test current limp (10/350 µs) (L-PE)	12.5 kA
Lightning test current, limp (10/350 µs) (N-PE)	50 kA	Requirements class, acc. to EN 61643-11	T1, T2
Requirements category acc. to IEC 61643-11	Type I, Type II	Max. continuous voltage, Uc (AC)	300 V
Max. continuous voltage, Uc (N-PE)	305 V	Mains voltage	230 V / 400 V
Discharge current Imax (8/20µs) N-PE	100 kA	Discharge current In (8/20µs) N-PE	80 kA
Energy coordination (≤10 m)	Type I, Type II, Type III	Discharge current In (8/20µs) wire-PE	20 kA
Discharge current Imax (8/20µs) wire-PE	50 kA	SPD type	T1, T2
Protection level Up at IN (L/N-PE)	≤ 1.5 kV	Short-circuit current rating ISCCR	25 kA
Follow-on current extinguishing capability Ifi	Follow current need not be taken into account	Integrated back-up fuse	No

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Connection data

Stripping length	18 mm	Wire connection method	Screw connection
Type of connection	Clamped	Tightening torque, max.	4.5 Nm
Clamping range, min.	16 mm²	Clamping range, max.	35 mm²
Wire cross-section, solid, min.	16 mm²	Wire cross-section, solid, max.	35 mm²
Wire connection cross section, finely stranded, max.	25 mm²	Conductor cross-section, flexible, AEH (DIN 46228-1), min.	16 mm²
Conductor cross-section, flexible, AEH (DIN 46228-1), max.	25 mm²	Connection cross-section, stranded, min.	16 mm²
Connection cross-section, stranded, max.	35 mm²		

Electrical data

Voltage type	AC

General data

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

Guarantee

Time interval	5 years

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).

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		

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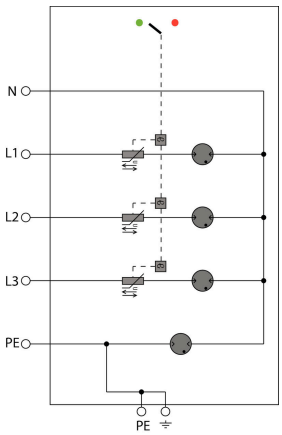
Drawings



Prinzipschaltbild