

Lightning and surge protection
VPU ZPA I 3+1 300/12,5**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

Fon: +49 5231 14-0

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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

Type	VPU ZPA I 3+1 300/12,5
Order No.	2674380000
Version	Surge voltage arrester, Low voltage, Leakage-current-free, TN-C-S, TN-S, TT, $U_P(L/N-PE) \leq 1.5$ kV
GTIN (EAN)	4050118686708
Qty.	1 pc(s).

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Technical data

Dimensions and weights

Width	47 mm	Width (inches)	1.85 inch
Height	229 mm	Height (inches)	9.016 inch
Depth	99 mm	Depth (inches)	3.898 inch
Net weight	100 g		

Temperatures

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

Rated data UL

Altitude	≤ 4000 m
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General data

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

Rated data IEC / EN

Rated voltage (AC)	240 V	Voltage type	AC
Max. continuous voltage, U_c (AC)	300 V	Max. continuous voltage, U_c (N-PE)	305 V
Low voltage network	TN-C-S, TN-S, TT	Discharge current I_n (8/20µs) N-PE	80 kA
Discharge current I_{max} (8/20µs) N-PE	100 kA	Discharge current I_n (8/20µs) wire-PE	20 kA
Discharge current I_{max} (8/20µs) wire-PE	50 kA	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	Frequency range, max.	60 Hz
Frequency range, min.	50 Hz	Fuse	No Fuse necessary ≤ 160 A gG
Short-circuit current rating I_{SCCR}	25 kA	Follow-on current extinguishing capability I_{fi}	Not available due for technical reasons
Standards	IEC 61643-11, EN 61643-11	Energy coordination (≤ 10 m)	Type I, Type II, Type III
Protection level U_p (typ.)	≤ 1.5 kV	Protection level U_p at I_N (N-PE)	≤ 1.5 kV
Leakage current at U_n	5 µA	Temporary surge voltage (over-voltage) - TOV	442 V
Requirements category acc. to IEC 61643-11	Type I, Type II	Requirements class, acc. to EN 61643-11	T1, T2
Response time	≤ 100 ns	Signalling contact	No
Suitable for	Count-in installation (leakage current free)		

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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 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		

Classifications

ETIM 6.0	EC000941	ETIM 7.0	EC000941
eClass 9.0	27-13-08-05	eClass 9.1	27-13-08-05
eClass 10.0	27-13-08-05		

Product information

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

Downloads

Approval/Certificate/Document of Conformity	CE VPU ZPA
User Documentation	Manual

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Drawings

