

VPU ZPA I 3+1 R 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, $U_P(L/N-PE) \leq 1.5$ kV
Order No.	2674470000
Type	VPU ZPA I 3+1 R 300/7,5
GTIN (EAN)	4050118686845
Qty.	1 pc(s).

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Technical data

Dimensions and weights

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

Temperatures

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

Rated data UL

Operating altitude	≤ 4000 m
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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	miscellaneous
Operating altitude	≤ 4000 m	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	auxiliary contact	No

Insulation coordination acc. to EN 50178

Operating altitude	≤ 4000 m
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Rated data IEC / EN

Discharge current $I_{\max}$ (8/20 μ s) wire-PE	50 kA
Discharge current I_n (8/20 μ s) N-PE	80 kA
Energy coordination (≤ 10 m)	Type I, Type II, Type III
Frequency range, max.	60 Hz
Fuse	No Fuse necessary ≤ 315 A gG
Lightning test current I_{imp} (10/350 μ s) (L-PE)	7.5 kA
Low voltage network	TN-C-S, TN-S, TT
Max. continuous voltage, U_c (AC)	300 V
Protection level U_p (typ.)	≤ 1.5 kV
Rated voltage (AC)	240 V
Requirements class, acc. to EN 61643-11	T1, T2
SPD type	T1, T2
Signalling contact	1 CO 250 V AC. 1 A / 125 V DC. 30 mA
Suitable for	Count-in installation (leakage current free)
Voltage type	AC

Discharge current $I_{\max}$ (8/20 μ s) N-PE	100 kA
Discharge current I_n (8/20 μ s) wire-PE	20 kA
Follow-on current extinguishing capability I_{fi}	Not available due for technical reasons
Frequency range, min.	50 Hz
Leakage current at U_n	5 μ A
Lightning test current, I_{imp} (10/350 μ s) (N-PE)	30 kA
Mains voltage	230 V / 400 V
Max. continuous voltage, U_c (N-PE)	305 V
Protection level U_p at I_N (N-PE)	≤ 1.5 kV
Requirements category acc. to IEC 61643-11	Type I, Type II
Response time	≤ 100 ns
Short-circuit current rating I_{SCCR}	25 kA
Standards	IEC 61643-11, EN 61643-11
Temporary surge voltage (over-voltage) - TOV	442 V

Connection data

Wire connection method	Screw connection
Tightening torque, max.	4.5 Nm
Clamping range, max.	35 mm ²
Conductor cross-section, flexible, AEH (DIN 46228-1), max.	25 mm ²
Connection cross-section, stranded, max.	35 mm ²

Type of connection	Clamped
Clamping range, min.	16 mm ²
Conductor cross-section, flexible, AEH (DIN 46228-1), min.	16 mm ²
Connection cross-section, stranded, min.	16 mm ²

Guarantee

Time interval	5 years
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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	ECLASS 11.0	27-13-08-05

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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Technical data

Approvals

Approvals



ROHS

Conform

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Approval/Certificate/Document of
Conformity

[CE VPU ZPA](#)

Tender specification

[Ausschreibungstext DE](#)
[Tenderspecification EN](#)

User Documentation

[Manual](#)

Brochure/Catalogue

[Catalogues in PDF-format](#)

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Drawings

