

VPU ZPA S 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, IT with N, IT without N
Order No.	2830900000
Type	VPU ZPA S I 3+1 300/12,5
GTIN (EAN)	4064675390084
Qty.	1 items

VPU ZPA S I 3+1 300/12,5

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 26
 D-32758 Detmold
 Germany

www.weidmueller.com

Technical data

Approvals

Approvals



ROHS Conform

Dimensions and weights

Depth	102 mm	Depth (inches)	4.0157 inch
Height	236 mm	Height (inches)	9.2913 inch
Width	36 mm	Width (inches)	1.4173 inch
Net weight	633 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

Connection type	PUSH IN
-----------------	---------

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	No	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)	12.5 kA
Lightning test current, limp (10/350 µs) (N-PE)	50 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
SPD type	T1, T2, T3	Protection level Up at IN (L/N-PE)	≤ 1.5 kV
Short-circuit current rating I _{SCCR}	25 kA	Integrated back-up fuse	No
PE conductor current	5 µA		

VPU ZPA S I 3+1 300/12,5

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Technical data

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
--------------	----

General data

Number of poles	4	Protection degree	IP20
Colour	grey		

Guarantee

Time interval	5 years
---------------	---------

Important note

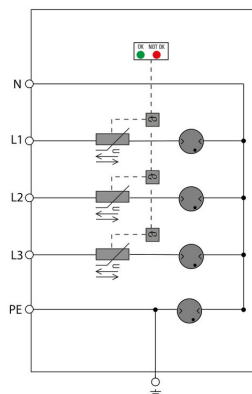
Product information	Only applicable to IT power systems where the earth on the distribution transformer is interconnected with the earth on the consumer side (RE=RA in Figure 44.A1 of IEC 60634-4-44:2018).
---------------------	---

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		

Drawings

Electric symbol



Circuit diagram