

**Lightning and surge protection**  
**VPU ZPA I 3+1 R 300/12,5**

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 26  
D-32758 Detmold  
Germany  
Fon: +49 5231 14-0  
Fax: +49 5231 14-292083  
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**

Type	VPU ZPA I 3+1 R 300/12,5
Order No.	<a href="#">2674390000</a>
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)	4050118686715
Qty.	1 pc(s).

Creation date June 2, 2020 9:16:43 AM CEST

Catalogue status 15.05.2020 / We reserve the right to make technical changes.

## Lightning and surge protection VPU ZPA I 3+1 R 300/12,5

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 26  
D-32758 Detmold  
Germany  
Fon: +49 5231 14-0  
Fax: +49 5231 14-292083  
www.weidmueller.com

## 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
----------	----------

### Connection data, remote alert

Connection type	Screw connection	Max. torque	0.4 Nm
Cross-section for connected wire, solid core, min.	0.14 mm <sup>2</sup>	Cross-section for connected wire, solid core, max.	1.5 mm <sup>2</sup>

### 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		

## Lightning and surge protection VPU ZPA I 3+1 R 300/12,5

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 26  
 D-32758 Detmold  
 Germany  
 Fon: +49 5231 14-0  
 Fax: +49 5231 14-292083  
 www.weidmueller.com

## Technical data

### 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 $I_n$ (8/20 $\mu$ s) N-PE	80 kA
Discharge current $I_{max}$ (8/20 $\mu$ s) N-PE	100 kA	Discharge current $I_n$ (8/20 $\mu$ s) wire-PE	20 kA
Discharge current $I_{max}$ (8/20 $\mu$ s) wire-PE	50 kA	Lightning test current $I_{imp}$ (10/350 $\mu$ s) (L-PE)	12.5 kA
Lightning test current, $I_{imp}$ (10/350 $\mu$ s) (N-PE)	50 kA	Frequency range, max.	60 Hz
Frequency range, min.	50 Hz	Fuse	No Fuse necessary $\leq 160$ A gG
Short-circuit current rating $I_{SCCR}$	50 kA	Follow-on current extinguishing capability $I_{fi}$	Not available due for technical reasons
Standards	IEC61643-11, EN61643-11	Energy coordination ( $\leq 10$ m)	Type I, Type II, Type III
Protection level $U_p$ (typ.)	$\leq 1.5$ kV	Protection level $U_p$ at $I_N$ (N-PE)	$\leq 1.5$ kV
Leakage current at $U_n$	5 $\mu$ A	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	$\leq 100$ ns	Signalling contact	1 CO 250 V AC, 1 A / 125 V DC, 30 mA
Suitable for	Count-in installation (leakage current free)		

### Connection data

Wire connection method	Screw connection	Type of connection	Clamped
Tightening torque, max.	4.5 Nm	Clamping range, min.	16 mm <sup>2</sup>
Clamping range, max.	35 mm <sup>2</sup>	Conductor cross-section, flexible, AEH (DIN 46228-1), min.	16 mm <sup>2</sup>
Conductor cross-section, flexible, AEH (DIN 46228-1), max.	25 mm <sup>2</sup>	Connection cross-section, stranded, min.	16 mm <sup>2</sup>
Connection cross-section, stranded, max.	35 mm <sup>2</sup>		

### 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).

### Approvals

Approvals



ROHS Conform

**Data sheet****Lightning and surge protection  
VPU ZPA I 3+1 R 300/12,5**

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 26  
D-32758 Detmold  
Germany  
Fon: +49 5231 14-0  
Fax: +49 5231 14-292083  
www.weidmueller.com

**Technical data****Downloads**

---

Approval/Certificate/Document of Conformity	<a href="#">CE VPU ZPA</a>
User Documentation	<a href="#">Manual</a>

---

**Lightning and surge protection  
VPU ZPA I 3+1 R 300/12,5**

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 26  
D-32758 Detmold  
Germany  
Fon: +49 5231 14-0  
Fax: +49 5231 14-292083  
www.weidmueller.com

**Drawings**

