

**VPU ZPA I 3+1 RA 300/12,5****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://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.  | <a href="#">2674410000</a>                                                                             |
| Type       | VPU ZPA I 3+1 RA 300/12,5                                                                              |
| GTIN (EAN) | 4050118686791                                                                                          |
| Qty.       | 1 pc(s).                                                                                               |

## VPU ZPA I 3+1 RA 300/12,5

Weidmüller Interface GmbH &amp; Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

## 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 |
|--------------------|----------|

## Connection data, remote alert

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

## Auxiliary voltage connection

|                 |         |                  |       |
|-----------------|---------|------------------|-------|
| Rated voltage   | 220 V   | Rated current    | 20 A  |
| Connection type | PUSH IN | Stripping length | 12 mm |

## 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         | Yes                                               |

## Insulation coordination acc. to EN 50178

|                    |          |
|--------------------|----------|
| Operating altitude | ≤ 4000 m |
|--------------------|----------|

## VPU ZPA I 3+1 RA 300/12,5

Weidmüller Interface GmbH &amp; Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

## Technical data

## Rated data IEC / EN

|                                                                 |                                              |
|-----------------------------------------------------------------|----------------------------------------------|
| Discharge current $I_{\max}$ (8/20 $\mu$ s) wire-PE             | 50 kA                                        |
| Discharge current $I_n$ (8/20 $\mu$ s) N-PE                     | 80 kA                                        |
| Energy coordination ( $\leq 10$ m)                              | Type I, Type II, Type III                    |
| Fuse                                                            | No Fuse necessary $\leq 315$ A gG            |
| Lightning test current $I_{\text{imp}}$ (10/350 $\mu$ s) (L-PE) | 12.5 kA                                      |
| Low voltage network                                             | TN-C-S, TN-S, TT                             |
| Max. continuous voltage, $U_c$ (AC)                             | 300 V                                        |
| Protection level $U_p$ (typ.)                                   | $\leq 1.5$ 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 $\mu$ s) N-PE                 | 100 kA                                  |
| Discharge current $I_n$ (8/20 $\mu$ s) wire-PE                   | 20 kA                                   |
| Follow-on current extinguishing capability $I_{fi}$              | Not available due for technical reasons |
| Leakage current at $U_n$                                         | 5 $\mu$ A                               |
| Lightning test current, $I_{\text{imp}}$ (10/350 $\mu$ s) (N-PE) | 50 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)                           | $\leq 1.5$ kV                           |
| Requirements category acc. to IEC 61643-11                       | Type I, Type II                         |
| Response time                                                    | $\leq 100$ ns                           |
| Short-circuit current rating $I_{\text{SCCR}}$                   | 25 kA                                   |
| Standards                                                        | IEC61643-11, EN61643-11                 |
| 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 <sup>2</sup> |
| Conductor cross-section, flexible, AEH (DIN 46228-1), max. | 25 mm <sup>2</sup> |
| Connection cross-section, stranded, max.                   | 35 mm <sup>2</sup> |

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

## Guarantee

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

## 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). |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Approvals

Approvals



|      |         |
|------|---------|
| ROHS | Conform |
|------|---------|

Creation date April 16, 2021 7:50:05 AM CEST

Catalogue status 09.04.2021 / We reserve the right to make technical changes.

### VPU ZPA I 3+1 RA 300/12,5

**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)

## Technical data

### Downloads

Approval/Certificate/Document of  
Conformity

[CE VPU ZPA](#)

Tender specification

[Ausschreibungstext DE](#)

[Tenderspecification EN](#)

User Documentation

[Manual](#)

Brochure/Catalogue

[Catalogues in PDF-format](#)

## VPU ZPA I 3+1 RA 300/12,5

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

[www.weidmueller.com](http://www.weidmueller.com)

# Drawings

