

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

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)**Product image**

Similar to illustration

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 |
| Order No.  | <a href="#">2830890000</a>                                      |
| Type       | VPU ZPA S I 3 RA 300/12,5                                       |
| GTIN (EAN) | 4064675390077   |
| Qty.       | 1 pc(s).  |

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## Technical data

## Dimensions and weights

|            |          |                 |            |
|------------|----------|-----------------|------------|
| Depth      | 101.6 mm | Depth (inches)  | 4 inch     |
| Height     | 230.6 mm | Height (inches) | 9.079 inch |
| Width      | 36 mm    | Width (inches)  | 1.417 inch |
| Net weight | 636 g    |                 |            |

## Temperatures

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

## 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              |

## General data

|                           |   |                          |   |
|---------------------------|---|--------------------------|---|
| Colour                    | grey                                      | Design                   | for 40mm busbars                                  |
| Operating altitude        | ≤ 4000 m                                  | Optical function display | green = OK; red = arrester is defective - replace |
| Protection degree         | IP30, in combination with the cover, IP20 | Segment                  | Power distribution                                |
| UL 94 flammability rating | V-0                                       | Version                  | Leakage-current-free                              |
| auxiliary contact         | Yes                                       |                          |   |

## Rated data IEC / EN

|  |   |  |                                      |
|--|---|--|--------------------------------------|
| Combined pulse U <sub>OC</sub>                             | 6 kV  | Discharge current I <sub>max</sub> (8/20μs) wire-PE        | 40 kA                                |
| Discharge current I <sub>n</sub> (8/20μs) wire-PE          | 20 kA   | Energy coordination (≤10 m)                                | Type I, Type II, Type III            |
| Follow-on current extinguishing capability I <sub>fi</sub> | Follow current need not be taken into account | Fuse   | No Fuse necessary ≤160 A gG          |
| Leakage current at U <sub>n</sub>                          | 20 μA   | Lightning test current I <sub>imp</sub> (10/350 μs) (L-PE) | 12.5 kA                              |
| Low voltage network  | TN-C  | Mains voltage  | 230 V / 400 V                        |
| Max. continuous voltage, U <sub>c</sub> (AC)               | 300 V   | Number of poles  | 1                                    |
| Protection level U <sub>p</sub> at I <sub>N</sub> (L/N-PE) | ≤ 1.5 kV                                      | Rated voltage (AC)   | 240 V                                |
| Requirements category acc. to IEC 61643-11                 | Type I, Type II, Type III                     | Requirements class, acc. to EN 61643-11                    | T1, T2, T3                           |
| Response time  | ≤ 100 ns                                      | SPD type   | T1, T2, T3                           |
| Short-circuit current rating I <sub>SCCR</sub>             | 25 kA   | Signalling contact   | 1 CO 250 V AC. 1 A / 125 V DC. 30 mA |
| Standards  | IEC61643-11, EN61643-11                       | Temporary surge voltage (over-voltage) - TOV               | 442 V                                |
| Voltage type   | AC  |  |                                      |

## Connection data

|  |                    |  |                    |
|--|--------------------|--|--------------------|
| Stripping length   | 12 mm              | 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> |

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Catalogue status 20.04.2024 / We reserve the right to make technical changes.

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[www.weidmueller.com](http://www.weidmueller.com)**Technical data****Guarantee**

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

**Classifications**

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC000941    | ETIM 7.0    | EC000941    |
| ETIM 8.0    | EC000941    | ETIM 9.0    | 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 |
| ECLASS 12.0 | 27-17-90-90 | ECLASS 13.0 | 27-17-90-90 |

**Approvals**

Approvals



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

**Downloads**

|   |   |
|---|---|
| Approval/Certificate/Document of Conformity | <a href="#">EU_Konformitätserklärung / EU_Declaration_of_Conformity</a> |
| Engineering Data                            | <a href="#">CAD data – STEP</a>   |
| User Documentation                          | <a href="#">Beipackzettel / Instruction sheet</a>                       |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>                                |

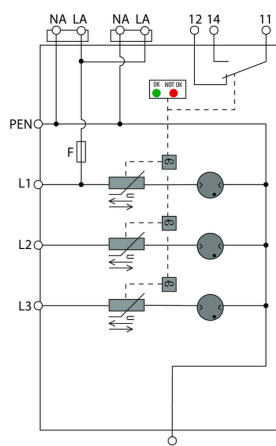
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## Drawings

### Electric symbol



Circuit diagram

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**Accessories****Accessories****General ordering data**

|            |                            |
|------------|----------------------------|
| Type       | V-ZPA FUSE HOLDER          |
| Order No.  | <a href="#">2904480000</a> |
| GTIN (EAN) | 4099986010383              |
| Qty.       | 1 pc(s).                   |

|            |                            |
|------------|----------------------------|
| Type       | V-ZPA TERMINAL             |
| Order No.  | <a href="#">2904470000</a> |
| GTIN (EAN) | 4099986010352              |
| Qty.       | 1 pc(s).                   |

**Crosshead screwdriver Phillips**

VDE insulated crosshead screwdriver, for Phillips screws, SDIK PH DIN 7438, ISO 8764/2-PH, output to ISO 8764-PH, SoftFinish grip

**General ordering data**

|            |                            |   |
|------------|----------------------------|---|
| Type       | SDIK PH1 X 80              | Version   |
| Order No.  | <a href="#">2749890000</a> | Screwdriver, Blade width (B): 1 mm, 80 mm, Blade thickness (A): 1 |
| GTIN (EAN) | 4050118897098              |   |
| Qty.       | 1 pc(s).                   |   |

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[www.weidmueller.com](http://www.weidmueller.com)**Accessories****Slotted screwdriver**

VDE insulated slot-head screwdriver, SDI DIN 7437, ISO 2380/2, drive output acc. to DIN 5264, ISO 2380/1. SoftFinish grip

**General ordering data**

|            |                            |   |
|------------|----------------------------|---|
| Type       | SDIS 1.0X5.5X125           | Version   |
| Order No.  | <a href="#">2749850000</a> | Screwdriver, Blade width (B): 5.5 mm, Blade length: 125 mm, Blade |
| GTIN (EAN) | 4050118897050              | thickness (A): 1 mm   |
| Qty.       | 1 pc(s).                   |   |