

VPU ZPA S I 3 RA 300/7,5**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

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. | 2830950000 |
| Type | VPU ZPA S I 3 RA 300/7,5 |
| GTIN (EAN) | 4064675390152 |
| 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 | 641 g | | |

Temperatures

| | | | |
|---------------------|---------------------------|-----------------------|----------------|
| Storage temperature | -40 °C...85 °C | Operating temperature | -40 °C...85 °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 ² |
| Cross-section for connected wire, solid core, min. | 0.14 mm ² | 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_{OC} | 6 kV | Discharge current I_{max} (8/20μs) wire-PE | 40 kA |
| Discharge current I_n (8/20μs) wire-PE | 20 kA | Energy coordination (≤10 m) | Type I, Type II, Type III |
| Follow-on current extinguishing capability I_{fi} | Follow current need not be taken into account | Fuse | No Fuse necessary ≤160 A gG |
| Leakage current at U_n | 5 μA | Lightning test current I_{imp} (10/350 μs) (L-PE) | 7.5 kA |
| Low voltage network | TN-C | Mains voltage | 230 V / 400 V |
| Max. continuous voltage, U_c (AC) | 300 V | Number of poles | 1 |
| Protection level U_p at I_N (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_{SCCR} | 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 ² | Clamping range, max. | 35 mm ² |
| Conductor cross-section, flexible, AEH (DIN 46228-1), min. | 16 mm ² | Conductor cross-section, flexible, AEH (DIN 46228-1), max. | 25 mm ² |
| Connection cross-section, stranded, min. | 16 mm ² | Connection cross-section, stranded, max. | 35 mm ² |

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Catalogue status 29.06.2024 / We reserve the right to make technical changes.

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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 |

Environmental Product Compliance

REACH SVHC /

Approvals

Approvals



ROHS Conform

Downloads

| | |
|---|---|
| Approval/Certificate/Document of Conformity | EU_Konformitätserklärung / EU_Declaration_of_Conformity |
| Engineering Data | CAD data – STEP |
| User Documentation | Beipackzettel / Instruction sheet |
| Catalogues | Catalogues in PDF-format |

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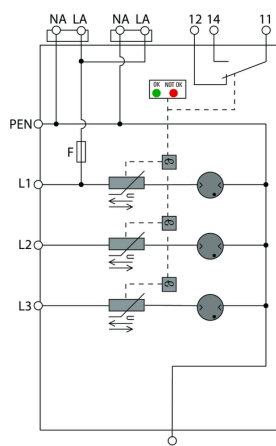
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Drawings

Electric symbol



Circuit diagram

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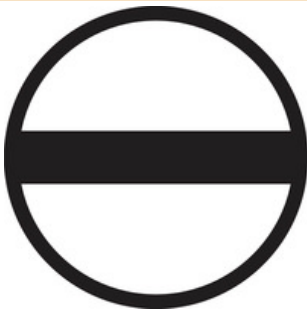
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www.weidmueller.com**Accessories****Crosshead screwdriver Phillips**

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. | 2749890000 | Screwdriver, Blade width (B): 1 mm, 80 mm, Blade thickness (A): 1 |
| GTIN (EAN) | 4050118897098 | |
| Qty. | 1 pc(s). | |

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. | 2749850000 | Screwdriver, Blade width (B): 5.5 mm, Blade length: 125 mm, Blade |
| GTIN (EAN) | 4050118897050 | thickness (A): 1 mm |
| Qty. | 1 pc(s). | |

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www.weidmueller.com**Accessories****Accessories****General ordering data**

| | |
|------------|----------------------------|
| Type | V-ZPA FUSE HOLDER |
| Order No. | 2904480000 |
| GTIN (EAN) | 4099986010383 |
| Qty. | 1 pc(s). |
| Type | V-ZPA TERMINAL |
| Order No. | 2904470000 |
| GTIN (EAN) | 4099986010352 |
| Qty. | 1 pc(s). |