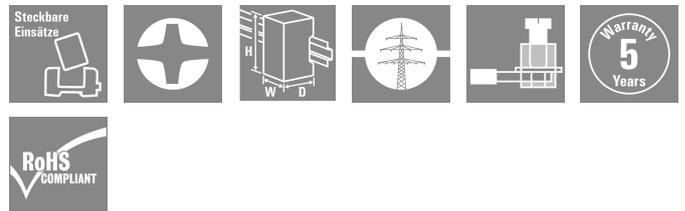


VPU AC II+III 1+1 R 440/20 S

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

www.weidmueller.com



General ordering data

| | |
|------------|---|
| Version | Surge voltage arrester, Low voltage, with remote contact, Single-phase, TN, TT, IT with N, IT without N |
| Order No. | 2908510000 |
| Type | VPU AC II+III 1+1 R 440/20 S |
| GTIN (EAN) | 4099986190924 |
| Qty. | 1 items |

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Technical data

Approvals

Approvals



ROHS Conform

Dimensions and weights

| | | | |
|------------|---------|-----------------|-------------|
| Depth | 70 mm | Depth (inches) | 2.7559 inch |
| Height | 105 mm | Height (inches) | 4.1338 inch |
| Width | 18 mm | Width (inches) | 0.7087 inch |
| Net weight | 150.5 g | | |

Temperatures

| | | | |
|-----------------------|----------------|---------------------|-----------------------|
| Storage temperature | | Ambient temperature | -40 °C...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

| | | | |
|--|---------------------------|--|---------------------|
| Cross-section for connected wire, solid core, min. | 0.2 mm ² | Stripping length | 5 mm |
| Connection type | Screw connection, PUSH IN | Cross-section for connected wire, solid core, max. | 1.5 mm ² |
| Max. torque | 0.4 Nm | | |

General data

| | | | |
|---------------------------|---|---------------|--|
| Optical function display | green = OK; red = arrester is defective - replace with remote contact | Segment | Power distribution |
| Version | | Design | Installation housing; 1TE, Insta IP 20 |
| UL 94 flammability rating | V-0 | Colour | grey |
| Protection degree | IP20 in installed state | Mounting rail | TS 35 |
| Operating altitude | ≤ 2000 m, ≤ 4000 m | | |

Insulation coordination acc. to EN 50178

| | | | |
|------------------------|-----|--------------------|---|
| Surge voltage category | III | Pollution severity | 2 |
|------------------------|-----|--------------------|---|

Rated data IEC / EN

| | | | |
|-----------------------|---|--|----------|
| Number of poles | 2 | Combined pulse UOC | 6 kV |
| Signalling contact | 250 V / 0,5 A | Rated voltage (AC) | 230 V |
| Low voltage network | Single-phase, TN, TT, IT with N, IT without N | Protection level Up at IN (N-PE) | ≤ 1.5 kV |
| Voltage type | AC | Temporary surge voltage (over-voltage) - TOV | 440 V |
| Fuse protection | No Fuse necessary ≤100 A gG | Response time / fallback time | ≤ 25 ns |
| Frequency range, max. | 60 Hz | Frequency range, min. | 50 Hz |

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Technical data

| | | | |
|--|---------------------------|--|-------------------|
| Standards | IEC 61643-11, EN 61643-11 | Requirements class, acc. to EN 61643-11 | T2, T3 |
| Requirements category acc. to IEC 61643-11 | Type II, Type III | Max. continuous voltage, U_c (AC) | 440 V |
| Max. continuous voltage, U_c (N-PE) | 255 V | Discharge current I_{max} (8/20 μ s) N-PE | 40 kA |
| Discharge current I_n (8/20 μ s) N-PE | 20 kA | Energy coordination (≤ 10 m) | Type II, Type III |
| Discharge current I_n (8/20 μ s) wire-PE | 10 kA | Discharge current I_{max} (8/20 μ s) wire-PE | 20 kA |
| Protection level Up at IN (L/N-PE) | ≤ 1.7 kV | Short-circuit current rating ISCCR | 25 kA |
| Discharge current (type III) | 3 kA | Integrated back-up fuse | No |
| Protection level Up at IN (L-PE) (type III) | ≤ 1 kV | Protection level Up at IN (N-PE) (type III) | $\leq 1,4$ kV |

Connection data

| | | | |
|--|--------------------|---|---------------------|
| Stripping length | 13 mm | Conductor connection cross-section PE, stranded, max. | 35 mm ² |
| Conductor connection cross-section PE, solid, max. | 35 mm ² | Wire connection method | Screw connection |
| Type of connection | Screw connection | Stripping length, rated connection | 13 mm |
| Tightening torque, min. | 1.2 Nm | Tightening torque, max. | 2 Nm |
| Clamping range, rated connection | 10 mm ² | Clamping range, min. | 2.5 mm ² |
| Clamping range, max. | 35 mm ² | Wire cross-section, solid, min. | 2.5 mm ² |
| Wire cross-section, solid, max. | 10 mm ² | Wire connection cross section, finely stranded, min. | 2.5 mm ² |
| Wire connection cross section, finely stranded, max. | 25 mm ² | Connection cross-section, stranded, min. | 2.5 mm ² |
| Connection cross-section, stranded, max. | 10 mm ² | | |

Electrical data

| | |
|--------------|----|
| Voltage type | AC |
|--------------|----|

General data

| | | | |
|-----------------|------|-------------------|-------------------------|
| Number of poles | 2 | Protection degree | IP20 in installed state |
| Colour | grey | | |

Guarantee

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

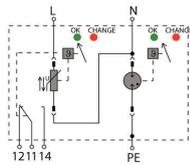
Important note

| | |
|---------------------|---|
| Product information | For use in DC applications, please use the fuse of SIBA Type NH2XL aR/aSF DC 1500 V |
|---------------------|---|

Classifications

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 8.0 | EC000941 | ETIM 9.0 | EC000941 |
| ETIM 10.0 | EC000941 | ECLASS 14.0 | 27-17-12-02 |
| ECLASS 15.0 | 27-17-12-02 | | |

Electric symbol



Schematic circuit diagram

VPU AC II+III 1+1 R 440/20 S

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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 PH0 X 60 | Version | |
| Order No. | 2749880000 | Screwdriver, Blade width (B): 0 mm, 60 mm, Blade thickness (A): 0 | |
| GTIN (EAN) | 4050118897081 | | |
| Qty. | 1 ST | | |

Spare arrester



General ordering data

| | | | |
|------------|----------------------------|---|--|
| Type | VPU AC II+III 0 L/N-PE ... | Version | |
| Order No. | 2908550000 | Surge voltage arrester, Low voltage, Spare arrester, TN-S, TT | |
| GTIN (EAN) | 4099986190979 | | |
| Qty. | 1 ST | | |