

**VPU AC II+III 3+1 R 440/20 S****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)**General ordering data**

|            |                                                                                                     |
|------------|-----------------------------------------------------------------------------------------------------|
| Version    | Surge voltage arrester, Low voltage, with remote contact, TN-C-S, TN-S, TT, IT with N, IT without N |
| Order No.  | <a href="#">2908530000</a>                                                                          |
| Type       | VPU AC II+III 3+1 R 440/20 S                                                                        |
| GTIN (EAN) | 4099986190948                                                                                       |
| Qty.       | 1 pc(s).                                                                                            |

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## Technical data

## Dimensions and weights

|            |       |                 |            |
|------------|-------|-----------------|------------|
| Depth      | 70 mm | Depth (inches)  | 2.756 inch |
| Height     | 99 mm | Height (inches) | 3.898 inch |
| Width      | 36 mm | Width (inches)  | 1.417 inch |
| Net weight | 288 g |                 |            |

## Temperatures

|                       |                |
|-----------------------|----------------|
| Operating temperature | -40 °C...85 °C |
|-----------------------|----------------|

## 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. | 0.2 mm <sup>2</sup> | Max. torque                                        | 0.4 Nm              |
| Stripping length                                   | 5 mm                |                                                    |                     |

## General data

|                 |      |                   |                         |
|-----------------|------|-------------------|-------------------------|
| Number of poles | 4    | Protection degree | IP20 in installed state |
| Colour          | grey |                   |                         |

## Insulation coordination acc. to EN 50178

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

## Rated data IEC / EN

|                                                                     |                   |                                                                     |                                           |
|---------------------------------------------------------------------|-------------------|---------------------------------------------------------------------|-------------------------------------------|
| Combined pulse U <sub>OC</sub>                                      | 6 kV              | Discharge current (type III)                                        | 3 kA                                      |
| Discharge current I <sub>max</sub> (8/20µs) N-PE                    | 40 kA             | Discharge current I <sub>max</sub> (8/20µs) wire-PE                 | 20 kA                                     |
| Discharge current I <sub>n</sub> (8/20µs) N-PE                      | 20 kA             | Discharge current I <sub>n</sub> (8/20µs) wire-PE                   | 10 kA                                     |
| Energy coordination (≤10 m)                                         | Type II, Type III | Frequency range, max.                                               | 60 Hz                                     |
| Frequency range, min.                                               | 50 Hz             | Fuse                                                                | No Fuse necessary ≤100 A gG               |
| Integrated back-up fuse                                             | No                | Low voltage network                                                 | TN-C-S, TN-S, TT, IT with N, IT without N |
| Max. continuous voltage, U <sub>c</sub> (AC)                        | 440 V             | Max. continuous voltage, U <sub>c</sub> (N-PE)                      | 255 V                                     |
| Number of poles                                                     | 4                 | Protection level U <sub>p</sub> at I <sub>N</sub> (L/N-PE)          | ≤ 1.7 kV                                  |
| Protection level U <sub>p</sub> at I <sub>N</sub> (N-PE)            | ≤ 1.5 kV          | Rated voltage (AC)                                                  | 230 V                                     |
| Requirements category acc. to IEC 61643-11                          | Type II, Type III | Requirements class, acc. to EN 61643-11                             | T2, T3                                    |
| Response time                                                       | ≤ 25 ns           | Short-circuit current rating I <sub>SCCR</sub>                      | 25 kA                                     |
| Signalling contact                                                  | 250 V / 0,5 A     | Standards                                                           | IEC 61643-11, EN 61643-11                 |
| Temporary surge voltage (over-voltage) - TOV                        | 440 V             | Voltage type                                                        | AC                                        |
| Protection level U <sub>p</sub> at I <sub>N</sub> (L-PE) (type III) | ≤1 kV             | Protection level U <sub>p</sub> at I <sub>N</sub> (N-PE) (type III) | ≤1,4 kV                                   |

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## Connection data

|                                                      |                    |                                                       |                     |
|------------------------------------------------------|--------------------|-------------------------------------------------------|---------------------|
| Conductor connection cross-section PE, solid, max.   | 35 mm <sup>2</sup> | Conductor connection cross-section PE, stranded, max. | 35 mm <sup>2</sup>  |
| Stripping length                                     | 13 mm              | 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 <sup>2</sup> | Clamping range, min.                                  | 2.5 mm <sup>2</sup> |
| Clamping range, max.                                 | 35 mm <sup>2</sup> | Wire cross-section, solid, min.                       | 2.5 mm <sup>2</sup> |
| Wire cross-section, solid, max.                      | 10 mm <sup>2</sup> | Wire connection cross section, finely stranded, min.  | 2.5 mm <sup>2</sup> |
| Wire connection cross section, finely stranded, max. | 6 mm <sup>2</sup>  | Connection cross-section, stranded, min.              | 2.5 mm <sup>2</sup> |
| Connection cross-section, stranded, max.             | 10 mm <sup>2</sup> |                                                       |                     |

## Electrical data

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

## Guarantee

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

## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC000941    | ETIM 7.0    | EC000941    |
| ETIM 8.0    | EC000941    | ETIM 9.0    | EC000941    |
| ETIM 10.0   | 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 | ECLASS 14.0 | 27-17-90-90 |
| ECLASS 15.0 | 27-17-90-90 |             |             |

## Environmental Product Compliance

|                        |                             |
|------------------------|-----------------------------|
| RoHS Compliance Status | Compliant without exemption |
| REACH SVHC             | No SVHC above 0.1 wt%       |

## Important note

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

## Approvals

Approvals



|                 |                                                                                                                                                                             |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approvals MAMID | <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-T1z1mm-S800/</a> |
| ROHS            | Conform                                                                                                                                                                     |

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## Technical data

### Downloads

Approval/Certificate/Document of Conformity

[EU\\_Konformitätserklärung / EU\\_Declaration\\_of\\_Conformity](#)

Engineering Data

[CAD data – STEP](#)

Tender specification

[Ausschreibungstext DE](#)

User Documentation

[Beipackzettel / Instruction Sheet](#)

Catalogues

[Catalogues in PDF-format](#)

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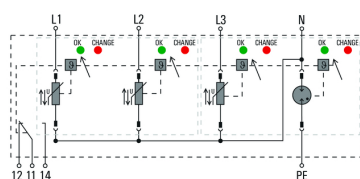
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## Drawings

### Electric symbol



Schematic circuit diagram

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## Accessories

### Spare arrester



#### General ordering data

|            |                             |                                                               |
|------------|-----------------------------|---------------------------------------------------------------|
| Type       | VPU AC II+III 0 L-N 440 ... | Version                                                       |
| Order No.  | <a href="#">2908540000</a>  | Surge voltage arrester, Low voltage, Spare arrester, TN-S, TT |
| GTIN (EAN) | 4099986190955               |                                                               |
| Qty.       | 1 pc(s).                    |                                                               |
| Type       | VPU AC II+III 0 L/N-PE ...  | Version                                                       |
| Order No.  | <a href="#">2908550000</a>  | Surge voltage arrester, Low voltage, Spare arrester, TN-S, TT |
| GTIN (EAN) | 4099986190979               |                                                               |
| 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 PH0 X 60              | Version                                                           |
| Order No.  | <a href="#">2749880000</a> | Screwdriver, Blade width (B): 0 mm, 60 mm, Blade thickness (A): 0 |
| GTIN (EAN) | 4050118897081              |                                                                   |
| Qty.       | 1 pc(s).                   |                                                                   |