

**VPU AC II+III 1+1 440/20 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, TN-S, TT |
| Order No.  | <a href="#">2908500000</a>                    |
| Type       | VPU AC II+III 1+1 440/20 S                    |
| GTIN (EAN) | 4099986190917                                 |
| Qty.       | 1 pc(s).                                      |

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

Weidmüller Interface GmbH &amp; Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

## Technical data

## Dimensions and weights

|            |       |                 |            |
|------------|-------|-----------------|------------|
| Depth      | 70 mm | Depth (inches)  | 2.756 inch |
| Height     | 97 mm | Height (inches) | 3.819 inch |
| Width      | 18 mm | Width (inches)  | 0.709 inch |
| Net weight | 148 g |                 |            |

## Temperatures

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

## Connection data, remote alert

|                 |                  |
|-----------------|------------------|
| Connection type | Screw connection |
|-----------------|------------------|

## General data

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

## Insulation coordination acc. to EN 50178

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

## Rated data IEC / EN

|  |                             |  |                           |
|--|-----------------------------|--|---------------------------|
| Combined pulse $U_{OC}$                      | 6 kV                        | Discharge current (type III)                 | 3 kA                      |
| Discharge current $I_{max}$ (8/20μs) N-PE    | 40 kA                       | Discharge current $I_{max}$ (8/20μs) wire-PE | 20 kA                     |
| Discharge current $I_n$ (8/20μs) N-PE        | 20 kA                       | Discharge current $I_n$ (8/20μs) wire-PE     | 10 kA                     |
| Frequency range, max.                        | 60 Hz                       | Frequency range, min.                        | 50 Hz                     |
| Fuse   | No Fuse necessary ≤100 A gG | Low voltage network                          | TN-S, TT                  |
| Max. continuous voltage, $U_c$ (AC)          | 440 V                       | Max. continuous voltage, $U_c$ (N-PE)        | 255 V                     |
| Number of poles                              | 2                           | Protection level $U_p$ at $I_N$ (L/N-PE)     | ≤ 1.7 kV, ≤ 1.4 kV        |
| Protection level $U_p$ at $I_N$ (N-PE)       | ≤ 1.5 kV                    | Protection level up at in (L-PE) (type III)  | ≤ 1 kV                    |
| Protection level up at in (N-PE) (type III)  | ≤ 1.4 kV                    | Rated voltage (AC)                           | 230 V                     |
| Requirements category acc. to IEC 61643-11   | Type II/III                 | Requirements class, acc. to EN 61643-11      | T2, T3                    |
| Response time                                | ≤ 25 ns                     | Short-circuit current rating $I_{SCCR}$      | 25 kA                     |
| Signalling contact                           | No                          | Standards                                    | IEC 61643-11, EN 61643-11 |
| Temporary surge voltage (over-voltage) - TOV | 440 V                       | Voltage type                                 | AC                        |

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

Weidmüller Interface GmbH &amp; Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

## Technical data

## 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> |
| Wire connection method                               | Screw connection    | Type of connection                                    | Screw connection   |
| Stripping length, rated connection                   | 15 mm               | Tightening torque, max.                               | 1.2 Nm             |
| 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> |

## 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 |

## Important note

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

## 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>   |
| Tender specification                        | <a href="#">Ausschreibungstext DE</a>                                   |
| User Documentation                          | <a href="#">Beipackzettel / Instruction Sheet</a>                       |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>                                |

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

**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

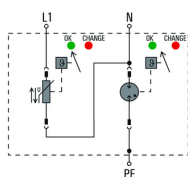
D-32758 Detmold

Germany

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

# Drawings

## Electric symbol



## Schematic circuit diagram

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

Weidmüller Interface GmbH &amp; Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

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