

**VPU AC II+III 1+1 275/40 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="#">2907740000</a>                    |
| Type       | VPU AC II+III 1+1 275/40 S                    |
| GTIN (EAN) | 4099986189638                                 |
| Qty.       | 1 pc(s).                                      |

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## 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 | 140 g |                 |            |

## Temperatures

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

## Connection data, remote alert

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

## General data

|                 |      |                   |                         |
|-----------------|------|-------------------|-------------------------|
| Number of poles | 2    | 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 $U_{OC}$                           | 6 kV                              | Discharge current (type III)                       | 3 kA                    |
| Discharge current $I_{max}$ (8/20 $\mu$ s) N-PE   | 40 kA                             | Discharge current $I_{max}$ (8/20 $\mu$ s) wire-PE | 40 kA                   |
| Discharge current $I_n$ (8/20 $\mu$ s) N-PE       | 20 kA                             | Discharge current $I_n$ (8/20 $\mu$ s) wire-PE     | 20 kA                   |
| Frequency range, max.                             | 60 Hz                             | Frequency range, min.                              | 50 Hz                   |
| Fuse                                              | No Fuse necessary $\leq 100$ A gG | Integrated back-up fuse                            | No                      |
| Low voltage network                               | TN-S, TT                          | Max. continuous voltage, $U_c$ (AC)                | 275 V                   |
| Max. continuous voltage, $U_c$ (N-PE)             | 255 V                             | Number of poles                                    | 2                       |
| Protection level $U_p$ at $I_N$ (L/N-PE)          | $\leq 1.5$ kV                     | Protection level $U_p$ at $I_N$ (N-PE)             | $\leq 1.5$ 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                                      | $\leq 25$ ns, $<100$ 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       | 335 V                   |
| Voltage type                                      | AC                                | Protection level $U_p$ at $I_N$ (L-PE) (type III)  | $\leq 1$ kV             |
| Protection level $U_p$ at $I_N$ (N-PE) (type III) | $\leq 1$ kV                       |                                                    |                         |

## 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> |

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## Technical data

## 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 [https://mdcop.weidmueller.com/mediadelivery/rendition/900\\_319222/-T1z1mm-S800/](https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-T1z1mm-S800/)

ROHS Conform

## Downloads

|                    |                                                   |
|--------------------|---------------------------------------------------|
| Engineering Data   | <a href="#">CAD data – STEP</a>                   |
| User Documentation | <a href="#">Beipackzettel / Instruction Sheet</a> |
| Catalogues         | <a href="#">Catalogues in PDF-format</a>          |

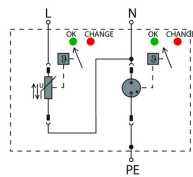
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# Drawings

## Electric symbol



## Schematic circuit diagram

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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 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).                   |                                                                   |

**Spare arrester****General ordering data**

|            |                            |                                                               |
|------------|----------------------------|---------------------------------------------------------------|
| Type       | VPU AC II+III 0 L/N-PE ... | Version                                                       |
| Order No.  | <a href="#">2907810000</a> | Surge voltage arrester, Low voltage, Spare arrester, TN-S, TT |
| GTIN (EAN) | 4099986189683              |                                                               |
| Qty.       | 1 pc(s).                   |                                                               |