

**VPU AC II US 0 277/50****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com



Abb.ähnlich



- compact SPD to install in application by NFPA 79
- no additional overcurrent protection devices needed
- short circuit current rating (SCCR) up to 200 kA
- tested according to IEC/EN 61643-11 and UL 1449 4.Ed

**General ordering data**

|            |                                  |
|------------|----------------------------------|
| Version    | Spare arrester, Surge protection |
| Order No.  | <a href="#">2730560000</a>       |
| Type       | VPU AC II US 0 277/50            |
| GTIN (EAN) | 4050118807547                    |
| Qty.       | 1 pc(s).                         |

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## Technical data

## Dimensions and weights

|            |       |                 |            |
|------------|-------|-----------------|------------|
| Depth      | 64 mm | Depth (inches)  | 2.52 inch  |
| Height     | 45 mm | Height (inches) | 1.772 inch |
| Width      | 18 mm | Width (inches)  | 0.709 inch |
| Net weight | 51 g  |                 |            |

## Temperatures

|                     |                       |                       |                |
|---------------------|-----------------------|-----------------------|----------------|
| Storage temperature | -40 °C...85 °C        | Operating temperature | -40 °C...85 °C |
| Humidity            | 5 - 95% rel. humidity |                       |                |

## Rated data UL

|                                               |             |                                                |         |
|-----------------------------------------------|-------------|------------------------------------------------|---------|
| Ambient temperature (operational), max. 85 °C |             | Rated Voltage $U_N$                            | 277 V   |
| VPR (N-PE)                                    | 1,000 V     | MCOV (L/N-PE)                                  | 350 V   |
| SCCR                                          | 200 kA      | $I_n$                                          | 20 kA   |
| Category                                      | SPD TYPE 1  | Ambient temperature (operational), min. -40 °C |         |
| Certificate No. (cURus)                       | E3542610000 | VPR (L-PE)                                     | 1,000 V |
| Voltage type                                  | AC          |                                                |         |

## General data

|                 |        |                   |                         |
|-----------------|--------|-------------------|-------------------------|
| Number of poles | 1      | Protection degree | IP20 in installed state |
| Colour          | orange |                   |                         |

## Insulation coordination acc. to EN 50178

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

## Rated data IEC / EN

|                                              |                                                                                        |                                                     |                                               |
|----------------------------------------------|----------------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------|
| Discharge current $I_{max}$ (8/20µs) wire-PE | 50 kA                                                                                  | Discharge current $I_n$ (8/20µs) wire-PE            | 20 kA                                         |
| Energy coordination ( $\leq 10$ m)           | Type II, Type III                                                                      | Follow-on current extinguishing capability $I_{fi}$ | Follow current need not be taken into account |
| Frequency range, max.                        | 60 Hz                                                                                  | Frequency range, min.                               | 50 Hz                                         |
| Fuse                                         | No Fuse necessary $\leq 315$ A gG, 250 A gG @50 kA $I_{sc}$ , 315 A gG @25 kA $I_{sc}$ | Leakage current at $U_n$                            | 0.3 mA                                        |
| Max. continuous voltage, $U_c$ (AC)          | 350 V                                                                                  | Number of poles                                     | 1                                             |
| Protection level $U_p$ at $I_N$ (L/N-PE)     | $\leq 1.25$ kV                                                                         | Rated voltage (AC)                                  | 277 V                                         |
| Requirements category acc. to IEC 61643-11   | Type II                                                                                | Requirements class, acc. to EN 61643-11             | T2                                            |
| Response time                                | $\leq 25$ ns                                                                           | SPD type                                            | T2                                            |
| Short-circuit current rating $I_{SCCR}$      | 50 kA                                                                                  | Signalling contact                                  | No                                            |
| Standards                                    | IEC61643-11, EN61643-11, UL 1449, NFPA 79                                              | Temporary surge voltage (over-voltage) - TOV        | 403 V                                         |
| Voltage type                                 | AC                                                                                     |                                                     |                                               |

## Connection data

|                        |                    |
|------------------------|--------------------|
| Wire connection method | Plug-in connection |
|------------------------|--------------------|

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## Technical data

## Electrical data

Voltage type AC

## Ratings IECEx/ATEX/cUL

Certificate no. (cULus) E354261

## 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%

## Approvals

Approvals



Approvals MAMID [https://mdcop.weidmueller.com/mediadelivery/rendition/900\\_319222/-T1z1mm-S800/](https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-T1z1mm-S800/) [https://mdcop.weidmueller.com/mediadelivery/rendition/900\\_319228/-T1z1mm-S800/](https://mdcop.weidmueller.com/mediadelivery/rendition/900_319228/-T1z1mm-S800/) [https://mdcop.weidmueller.com/mediadelivery/rendition/900\\_319230/-T1z1mm-S800/](https://mdcop.weidmueller.com/mediadelivery/rendition/900_319230/-T1z1mm-S800/) [https://mdcop.weidmueller.com/mediadelivery/rendition/900\\_319263/-T1z1mm-S800/](https://mdcop.weidmueller.com/mediadelivery/rendition/900_319263/-T1z1mm-S800/)

ROHS Conform

UL File Number Search UL Website

Certificate No. (cURus) E3542610000

Certificate no. (cULus) E354261

## Downloads

Approval/Certificate/Document of Conformity [EU Konformitätserklärung / EU Declaration of Conformity](#)

User Documentation [Beipackzettel / Instruction sheet](#)Catalogues [Catalogues in PDF-format](#)

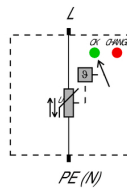
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# Drawings

## Electric symbol



## Schematic circuit diagram

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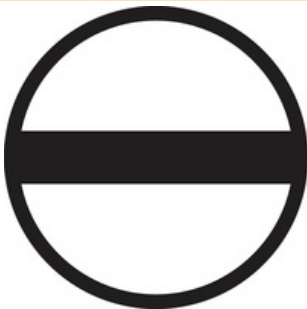
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[www.weidmueller.com](http://www.weidmueller.com)**Accessories****Crosshead screwdriver Phillips**

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 PH1 X 80              | Version                                                           |
| Order No.  | <a href="#">2749890000</a> | 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.  | <a href="#">2749850000</a> | Screwdriver, Blade width (B): 5.5 mm, Blade length: 125 mm, Blade |
| GTIN (EAN) | 4050118897050              | thickness (A): 1 mm                                               |
| Qty.       | 1 pc(s).                   |                                                                   |