

**VPU AC II US 0 120/50****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="#">2730440000</a>       |
| Type       | VPU AC II US 0 120/50            |
| GTIN (EAN) | 4050118807660                    |
| 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 | 56 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 $U_N$                            | 120 V |
| VPR (N-PE)                                    | 600 V       | MCOV (L/N-PE)                                  | 150 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)                                     | 600 V |
| Voltage type                                  | AC          |  |       |

## General data

|                           |                         |                          |   |
|---------------------------|-------------------------|--------------------------|---|
| Colour                    | orange                  | Design                   | Installation housing; 1TE                         |
| Operating altitude        | ≤ 4000 m                | Optical function display | green = OK; red = arrester is defective - replace |
| Protection degree         | IP20 in installed state | Segment                  | Power distribution                                |
| UL 94 flammability rating | V-0                     | Version                  | Surge protection                                  |

## 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 (≤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 ≤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)          | 150 V  | Number of poles                                     | 1   |
| Protection level $U_p$ at $I_N$ (N-PE)       | ≤ 1.25 kV  | Rated voltage (AC)                                  | 120 V   |
| Requirements category acc. to IEC 61643-11   | Type II  | Requirements class, acc. to EN 61643-11             | T2  |
| Response time                                | ≤ 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        | 229 V   |
| Voltage type                                 | AC   |   |   |

## Connection data

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

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## Technical data

## 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    |
| 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 |             |             |

## Environmental Product Compliance

|                        |                             |
|------------------------|-----------------------------|
| REACH SVHC             | /                           |
| RoHS Compliance Status | Compliant without exemption |

## Approvals

Approvals



|                         |             |
|-------------------------|-------------|
| ROHS                    | Conform     |
| UL File Number Search   | UL Website  |
| Certificate No. (cURus) | E3542610000 |
| Certificate no. (cULus) | E354261     |

## Downloads

|   |   |
|---|---|
| Approval/Certificate/Document of Conformity | <a href="#">EU_Konformitätserklärung / EU_Declaration_of_Conformity</a> |
| User Documentation                          | <a href="#">Beipackzettel / Instruction sheet</a>                       |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>                                |

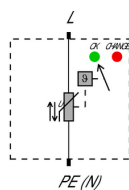
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# Drawings

## Electric symbol



## Schematic circuit diagram

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

**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).                   |   |