

**VPU AC II US 4 240/50****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           | Surge voltage arrester, Low voltage, Surge protection, TN-C-S, TN-S |
| Order No.         | <a href="#">2736400000</a>                                          |
| Type              | VPU AC II US 4 240/50                                               |
| GTIN (EAN)        | 4050118825770                                                       |
| Qty.              | 1 pc(s).                                                            |
| Replacement parts | <a href="#">2730530000</a>                                          |

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## Technical data

## Dimensions and weights

|                          |            |                             |            |
|--------------------------|------------|-----------------------------|------------|
| Depth                    | 68 mm      | Depth (inches)              | 2.677 inch |
| Depth including DIN rail | 76 mm      | Height                      | 96.3 mm    |
| Height (inches)          | 3.791 inch | Width                       | 72 mm      |
| Width (inches)           | 2.835 inch | Mounting dimension - height | 75 mm      |
| Net weight               | 460 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 $U_N$                     | 240 V                     |
| VPR (N-PE)                                    | 900 V      | MCOV (L/N-PE)                           | 300 V                     |
| SCCR                                          | 150 kA     | $I_n$                                   | 20 kA                     |
| Category                                      | SPD TYPE 1 | Connection cross-section AWG, min.      | AWG 14                    |
| Connection cross-section AWG, max.            | AWG 6      | Ambient temperature (operational), min. | -40 °C                    |
| MODE                                          | all modes  | VPR (L-L)                               | 1,800 V                   |
| VPR (L-N)                                     | 1,800 V    | VPR (L-PE)                              | 900 V                     |
| Voltage type                                  | AC         | UL Energy Networks                      | Delta System, 3-phase WYE |

## General data

|                    |                         |                           |                                                   |
|--------------------|-------------------------|---------------------------|---------------------------------------------------|
| Colour             | orange, black           | Design                    | Installation housing, Insta IP 20                 |
| Operating altitude | ≤ 4000 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                                               |
| Version            | Surge protection        |                           |                                                   |

## Insulation coordination acc. to EN 50178

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

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## Technical data

## Rated data IEC / EN

|                                                     |                                                                                              |                                                     |                                               |
|-----------------------------------------------------|----------------------------------------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------|
| Discharge current $I_{\max}$ (8/20 $\mu$ s) wire-PE | 50 kA                                                                                        | Discharge current $I_n$ (8/20 $\mu$ s) 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<br>$I_{sc}$ , 315 A gG @25 kA<br>$I_{sc}$ | Leakage current at $U_n$                            | 0.8 mA                                        |
| Low voltage network                                 | TN-C-S, TN-S                                                                                 | Mains voltage                                       | 230 V / 400 V                                 |
| Max. continuous voltage, $U_c$ (AC)                 | 300 V                                                                                        | Number of poles                                     | 4                                             |
| Protection level $U_p$ at $I_N$ (L/N-PE)            | $\leq 1.5$ kV                                                                                | Rated voltage (AC)                                  | 240 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        | 337 V                                         |
| Voltage type                                        | AC                                                                                           |                                                     |                                               |

## Connection data

|                                                            |                    |                                                            |                     |
|------------------------------------------------------------|--------------------|------------------------------------------------------------|---------------------|
| Stripping length                                           | 18 mm              | Wire connection method                                     | Screw connection    |
| Type of connection                                         | Screw connection   | Stripping length, rated connection                         | 18 mm               |
| Tightening torque, min.                                    | 2 Nm               | Tightening torque, max.                                    | 4.5 Nm              |
| Clamping range, rated connection                           | 16 mm <sup>2</sup> | Clamping range, min.                                       | 4 mm <sup>2</sup>   |
| Clamping range, max.                                       | 35 mm <sup>2</sup> | Wire connection cross section AWG, min.                    | AWG 14              |
| Wire connection cross section AWG, max.                    | AWG 6              | Wire cross-section, solid, min.                            | 2.5 mm <sup>2</sup> |
| Wire cross-section, solid, max.                            | 35 mm <sup>2</sup> | Wire connection cross section, finely stranded, min.       | 4 mm <sup>2</sup>   |
| Wire connection cross section, finely stranded, max.       | 35 mm <sup>2</sup> | Conductor cross-section, flexible, AEH (DIN 46228-1), min. | 2.5 mm <sup>2</sup> |
| Conductor cross-section, flexible, AEH (DIN 46228-1), max. | 35 mm <sup>2</sup> | Connection cross-section, stranded, min.                   | 2.5 mm <sup>2</sup> |
| Connection cross-section, stranded, max.                   | 35 mm <sup>2</sup> |                                                            |                     |

## 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 |

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[www.weidmueller.com](http://www.weidmueller.com)**Technical data****Approvals**

Approvals



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

**Downloads**

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

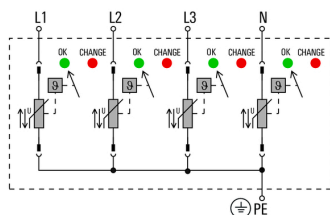
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## Drawings

### 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 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).                   |                                                                   |

## Blank



ESG is the tried-and-tested marker in MultiCard format for use on many well-known electrical devices. The result is high-quality device marking with a high-contrast appearance.

Various types are available for devices from manufacturers like Siemens, ABB, Beckhoff etc.

Advantages at a glance:

- Tags for universal usage, self-adhesive or clip-on tags, depending on type
- For aligned equipment, e.g. circuit breakers, we supply ESG markers for clipping onto tag rails
- Individual laser-quality printing according to specifications

**For custom printing:** Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

## General ordering data

|            |                            |                                                                  |
|------------|----------------------------|------------------------------------------------------------------|
| Type       | ESG 6/15 K MC NE WS        | Version                                                          |
| Order No.  | <a href="#">1880100000</a> | ESG, Device markers x 15 mm, PA 66, Colour: white, Self-adhesive |
| GTIN (EAN) | 4032248478781              |                                                                  |
| Qty.       | 200 pc(s).                 |                                                                  |

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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).                   |                                                                   |

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[www.weidmueller.com](http://www.weidmueller.com)**Replacement parts****Spare arrester**

- 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**

|            |                            |                                                                     |
|------------|----------------------------|---------------------------------------------------------------------|
| Type       | VPU AC II US 0 240/50      | Version                                                             |
| Order No.  | <a href="#">2730530000</a> | Spare arrester, Surge protection, $U_p(L/N-PE) \leq 1.5 \text{ kV}$ |
| GTIN (EAN) | 4050118807578              |                                                                     |
| Qty.       | 1 pc(s).                   |                                                                     |