

**VPU AC II US 3+1 240/50**
**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://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, TT, IT with N, IT without N |
| Order No.         | <a href="#">2736360000</a>                                                                       |
| Type              | VPU AC II US 3+1 240/50                                                                          |
| GTIN (EAN)        | 4050118825794                                                                                    |
| Qty.              | 1 pc(s).                                                                                         |
| Replacement parts | <a href="#">2730530000</a> <a href="#">2726820000</a>                                            |

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Catalogue status 26.04.2025 / We reserve the right to make technical changes.

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## Technical data

## Dimensions and weights

|                          |            |                             |            |
|--------------------------|------------|-----------------------------|------------|
| Depth                    | 68 mm      | Depth (inches)              | 2.677 inch |
| Depth including DIN rail | 76 mm      | Height                      | 90 mm      |
| Height (inches)          | 3.543 inch | Width                       | 72 mm      |
| Width (inches)           | 2.835 inch | Mounting dimension - height | 75 mm      |
| Net weight               | 446 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)                                     | 1,000 V     | MCOV (L-PE)                        | 300 V      |
| MCOV (N-PE)                                    | 305 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)                          | 900 V      |
| VPR (L-PE)                                     | 1,000 V     | Voltage type                       | AC         |
| UL Energy Networks                             | 3-phase WYE |                                    |            |

## General data

|                 |                     |                   |                         |
|-----------------|---------------------|-------------------|-------------------------|
| Number of poles | 4                   | Protection degree | IP20 in installed state |
| Colour          | orange, black, blue |                   |                         |

## 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) N-PE | 65 kA                                                                                            | Discharge current $I_{\max}$ (8/20 $\mu$ s) wire-PE | 50 kA                                         |
| Discharge current $I_n$ (8/20 $\mu$ s) N-PE      | 40 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>$I_{scrr}$ , 315 A gG @25 kA<br>$I_{scrr}$ | Leakage current at $U_n$                            | 1 $\mu$ A                                     |
| Low voltage network                              | TN-C-S, TN-S, TT, IT with N, IT without N                                                        | Mains voltage                                       | 230 V / 400 V                                 |
| Max. continuous voltage, $U_c$ (AC)              | 300 V                                                                                            | Max. continuous voltage, $U_c$ (N-PE)               | 305 V                                         |
| Number of poles                                  | 4                                                                                                | 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)                                  | 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 $I_{scrr}$          | 50 kA                                                                                            | Signalling contact                                  | No                                            |
| Standards                                        | IEC 61643-11, EN 61643-11, UL 1449, NF-PA 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.                                       | 1.5 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.       | 1.5 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> |                                                            |                     |

## Electrical data

|              |    |
|--------------|----|
| Voltage type | AC |
|--------------|----|

## Ratings IECEx/ATEX/cUL

|                         |         |
|-------------------------|---------|
| Certificate no. (cULus) | E354261 |
|-------------------------|---------|

## Guarantee

|               |         |
|---------------|---------|
| Time interval | 5 years |
|---------------|---------|

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## Technical data

## 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 | Only applicable to IT power systems where the earth on the distribution transformer is interconnected with the earth on the consumer side (RE=RA in Figure 44.A1 of IEC 60634-4-44:2018). |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Approvals

Approvals



|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approvals MAMID         | <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-T1z1mm-S800/</a> <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319228/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319228/-T1z1mm-S800/</a> <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319263/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319263/-T1z1mm-S800/</a> |
| 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>                                |

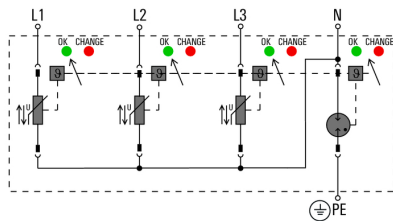
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# Drawings

## Electric symbol



Schematic circuit diagram

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## Accessories

## 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).                   |                                                                   |

## 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****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).                   |                                                                   |

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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                   |
| GTIN (EAN) | 4050118807578               |                                                    |
| Qty.       | 1 pc(s).                    |                                                    |
| Type       | VPU AC II US 0 N-PE 240 ... | Version                                            |
| Order No.  | <a href="#">2726820000</a>  | Spare arrester, Surge protection, TT only for N-PE |
| GTIN (EAN) | 4050118802467               |                                                    |
| Qty.       | 1 pc(s).                    |                                                    |