

VPU AC II US 1 N-PE 240/65**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, TT nur für N-PE, $U_p(L/N-PE) \leq 1.5 \text{ kV}$ |
| Order No. | 2730800000 |
| Type | VPU AC II US 1 N-PE 240/65 |
| GTIN (EAN) | 4050118807301 |
| Qty. | 1 pc(s). |
| Replacement parts | 2726820000 |

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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 | 18 mm |
| Width (inches) | 0.709 inch | Mounting dimension - height | 75 mm |
| Net weight | 111 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 (N-PE) | 305 V |
| SCCR | 200 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 | N-G | Voltage type | AC |
| UL Energy Networks | Single Pole N-PE | | |

General data

| | | | |
|--------------------|-------------------------|---------------------------|---|
| Colour | blue, 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 |
|--------------------|---|------------------------|-----|

Rated data IEC / EN

| | | | |
|---|---|--|--|
| Discharge current I_{max} (8/20 μ s) N-PE | 65 kA | Discharge current I_n (8/20 μ s) N-PE | 40 kA |
| Energy coordination (≤ 10 m) | Type II, Type III | 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 | 1 μ A | Low voltage network | TT nur für N-PE |
| Max. continuous voltage, U_c (AC) | 305 V | Max. continuous voltage, U_c (N-PE) | 305 V |
| Number of poles | 1 | Protection level U_p (typ.) | ≤ 1.5 kV |
| Protection level U_p at I_n (N-PE) | ≤ 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 | $<100\mu$ s | SPD type | T2 |
| Short-circuit current rating I_{SCCR} | 0.1 kA | Signalling contact | No |
| Standards | IEC61643-11, EN61643-11, UL 1449, NFPA 79 | Temporary surge voltage (over-voltage) - TOV | 1,200 V |
| Voltage type | AC | | |

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Technical data

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 ² | Clamping range, min. | 4 mm ² |
| Clamping range, max. | 35 mm ² | Wire connection cross section AWG, min. | AWG 14 |
| Wire connection cross section AWG, max. | AWG 6 | Wire cross-section, solid, min. | 2.5 mm ² |
| Wire cross-section, solid, max. | 35 mm ² | Wire connection cross section, finely stranded, min. | 4 mm ² |
| Wire connection cross section, finely stranded, max. | 35 mm ² | Conductor cross-section, flexible, AEH (DIN 46228-1), min. | 2.5 mm ² |
| Conductor cross-section, flexible, AEH (DIN 46228-1), max. | 35 mm ² | Connection cross-section, stranded, min. | 2.5 mm ² |
| Connection cross-section, stranded, max. | 35 mm ² | | |

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 |

Environmental Product Compliance

REACH SVHC /

RoHS Compliance Status Compliant without exemption

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



ROHS Conform

UL File Number Search UL Website

Certificate no. (cULus) E354261

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Technical data

Downloads

| | |
|---|---|
| Approval/Certificate/Document of Conformity | EU_Konformitätserklärung / EU_Declaration_of_Conformity |
| Engineering Data | CAD data – STEP |
| User Documentation | Beipackzettel / Instruction sheet |
| Catalogues | Catalogues in PDF-format |

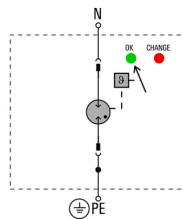
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Drawings

Electric symbol



Schematic circuit diagram

VPU AC II US 1 N-PE 240/65**Weidmüller Interface GmbH & Co. KG**

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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 N-PE 240 ... | Version |
| Order No. | 2726820000 | Spare arrester, Surge protection, TT nur für N-PE |
| GTIN (EAN) | 4050118802467 | |
| Qty. | 1 pc(s). | |

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www.weidmueller.com**Accessories****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. | 1880100000 | ESG, Device markers x 15 mm, PA 66, Colour: white, Self-adhesive |
| GTIN (EAN) | 4032248478781 | |
| Qty. | 200 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. | 2749850000 | 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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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. | 2749890000 | Screwdriver, Blade width (B): 1 mm, 80 mm, Blade thickness (A): 1 |
| GTIN (EAN) | 4050118897098 | |
| Qty. | 1 pc(s). | |