

VPU PV I+II 3 R 1500

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com



General ordering data

| | |
|------------|--|
| Version | Surge voltage arrester, Low voltage, with remote contact |
| Order No. | 2530590000 |
| Type | VPU PV I+II 3 R 1500 |
| GTIN (EAN) | 4050118540802 |
| Qty. | 1 items |

Technical data

Approvals

Approvals



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

Dimensions and weights

| | | | |
|------------|--------|-----------------|-------------|
| Depth | 86 mm | Depth (inches) | 3.3858 inch |
| Height | 102 mm | Height (inches) | 4.0157 inch |
| Width | 54 mm | Width (inches) | 2.126 inch |
| Net weight | 480 g | | |

Temperatures

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

Environmental Product Compliance

| | |
|------------------------|-----------------------------|
| RoHS Compliance Status | Compliant without exemption |
| REACH SVHC | No SVHC above 0.1 wt% |

Rated data UL

| | | | |
|---|--------------|---|--------|
| Ambient temperature (operational), max. | 85 °C | Rated Voltage UN | 1500 V |
| SCCR | 65 kA | In | 20 kA |
| Category | SPD TYPE 1CA | Ambient temperature (operational), min. | -40 °C |
| Certificate No. (cURus) | E3542610000 | VPR (DC+ /DC-) | 4000 V |
| VPR (DC-/G) | 4000 V | Voltage type | DC |

Connection data, remote alert

| | | | |
|--|----------------------|--|---------------------|
| Cross-section for connected wire, solid core, min. | 0.25 mm ² | Stripping length | 12 mm |
| Connection type | PUSH IN | Cross-section for connected wire, solid core, max. | 1.5 mm ² |

General data

| | | | |
|--------------------------|---|---------------------------|--|
| Optical function display | green = OK; red = arrester is defective - replace | Version | with remote contact |
| Design | Installation housing; 3TE, Insta IP 20 | UL 94 flammability rating | V-0 |
| Colour | black, orange | Protection degree | IP20 |
| Mounting rail | TS 35 | Operating altitude | <4,000 m, see operating instructions, ≤ 4000 m |

Insulation coordination acc. to EN 50178

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

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Technical data

Photovoltaic technical data

| | | | |
|--|-----------------------------------|---|-----------|
| Standards | EN 61643-31, EN 50539-11, UL 1449 | Lightning test current Iimp (10/350 µs) | 5 kA |
| Protection level Up (+/-, -/PE, +/-PE) | ≤ 5,0 kV | Operating height in ungrounded PV system | ≤ 4000 m |
| Short-circuit current ISCPV | 11000 A | Total discharge current I _{total} (8/20µs) | 40 kA |
| Discharge current I _n (8/20 µs) | 20 kA | Requirements class | Type I/II |
| Operating height in the grounded PV system | ≤ 2000 m | Total discharge current I _{total} (10/350µs) | 10 kA |
| PV system voltage, max. U _{cpv} | 1500 V | | |

Rated data IEC / EN

| | | | |
|-----------------------------|-----------------------------------|--|---------|
| Number of poles | 3 | Leakage current at U _n | 30 µA |
| Signalling contact | 250 V 1A 1CO | Rated voltage (DC) | 1500 V |
| Voltage type | DC | Response time / fallback time | ≤ 25 ns |
| Standards | EN 61643-31, EN 50539-11, UL 1449 | Lightning test current Iimp (10/350 µs) | 5 kA |
| Energy coordination (≤10 m) | Type I, Type II, Type III | Discharge current I _{max} (8/20µs) wire-PE30 kA | |
| SPD type | T1, T2 | Integrated back-up fuse | No |

Connection data

| | | | |
|--|---------------------|--|--------------------|
| Stripping length | 18 mm | Type of connection | Screw connection |
| Stripping length, rated connection | 18 mm | Tightening torque, min. | 3 Nm |
| Tightening torque, max. | 4.5 Nm | Clamping range, rated connection | 6 mm ² |
| Clamping range, min. | 1.5 mm ² | Clamping range, max. | 35 mm ² |
| Wire cross-section, solid, min. | 1.5 mm ² | Wire cross-section, solid, max. | 35 mm ² |
| Wire connection cross section, finely stranded, min. | 1.5 mm ² | Wire connection cross section, finely stranded, max. | 35 mm ² |
| Connection cross-section, stranded, min. | 1.5 mm ² | Connection cross-section, stranded, max. | 35 mm ² |

Electrical data

| | |
|--------------|----|
| Voltage type | DC |
|--------------|----|

General data

| | | | |
|-----------------|---------------|-------------------|------|
| Number of poles | 3 | Protection degree | IP20 |
| Colour | black, orange | | |

Guarantee

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

Classifications

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 8.0 | EC001457 | ETIM 9.0 | EC001457 |
| ETIM 10.0 | EC001457 | ECLASS 14.0 | 27-17-14-03 |
| ECLASS 15.0 | 27-17-14-03 | | |

Electric symbol



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. | 2749890000 | Screwdriver, Blade width (B): 1 mm, 80 mm, Blade thickness (A): 1 | |
| GTIN (EAN) | 4050118897098 | | |
| Qty. | 1 ST | | |

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 thickness (A): 1 mm | |
| GTIN (EAN) | 4050118897050 | | |
| Qty. | 1 ST | | |

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.

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Accessories

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 ST | | |

VPU Series



Extensive accessories round off the product range

General ordering data

| | | | |
|------------|----------------------------|---------|--|
| Type | VPU PV EXTENDER | Version | |
| Order No. | 3123510000 | | |
| GTIN (EAN) | 4099987270199 | | |
| Qty. | 9 ST | | |

Spare Arrester



General ordering data

| | | | |
|------------|----------------------------|--|--|
| Type | VPU PV I+II O 1500 | Version | |
| Order No. | 2530570000 | Surge voltage arrester, Low voltage, Accessories, Spare arrester | |
| GTIN (EAN) | 4050118540482 | | |
| Qty. | 9 ST | | |
| Type | VPU PV I+II OM 1500 | Version | |
| Order No. | 2534330000 | Surge voltage arrester, Low voltage, Accessories, Spare arrester | |
| GTIN (EAN) | 4050118546002 | | |
| Qty. | 9 ST | | |

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Accessories

VPU Series



Extensive accessories round off the product range

General ordering data

| | | | |
|------------|----------------------------|---------|--|
| Type | PLUG VPU AC | Version | |
| Order No. | 2855300000 | | |
| GTIN (EAN) | 4064675533283 | | |
| Qty. | 10 ST | | |
| Type | VPU LOCKING CLIP L | Version | |
| Order No. | 2735070000 | | |
| GTIN (EAN) | 4050118816402 | | |
| Qty. | 10 ST | | |