

VPU II 2 PV 1000V DC

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Technical data

Approvals

Approvals



ROHS Conform

Dimensions and weights

| | | | |
|-----------------------------|---------|-----------------|-------------|
| Depth | 69 mm | Depth (inches) | 2.7165 inch |
| Height | 94 mm | Height (inches) | 3.7008 inch |
| Width | 35.6 mm | Width (inches) | 1.4016 inch |
| Mounting dimension - height | 75 mm | Net weight | 282 g |

Temperatures

| | | | |
|---------------------|----------------|-----------------------|----------------|
| Storage temperature | -40 °C...80 °C | Operating temperature | -40 °C...70 °C |
|---------------------|----------------|-----------------------|----------------|

Environmental Product Compliance

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

General data

| | | | |
|--------------------------|---|---------------------------|---------------------------|
| Optical function display | green = OK; red = arrester is defective - replace | Version | without telecomm. contact |
| Design | Installation housing; 2TE, Insta IP 20 | UL 94 flammability rating | V-0 |
| Colour | black, orange | Protection degree | IP20 |
| Mounting rail | TS 35 | Operating altitude | ≤ 2000 m |

Insulation coordination acc. to EN 50178

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

Photovoltaic technical data

| | | | |
|---|-------------|--|----------|
| Standards | EN 50539-11 | Short-circuit current I _{SCPV} | 200 A |
| Discharge current I _n (8/20 μs) | 12.5 kA | Requirements class | Type II |
| Protection level Up (-/PE) | ≤ 2.8 kV | Protection level Up (+/-) | ≤ 5.6 kV |
| Protection level Up (+/PE) | ≤ 2.8 kV | PV system voltage, max. U _{cpv} | 1000 V |
| Maximum continuous operating voltage DC UCPV mode +/-, -/PE, +/PE | 1000 V | | |

Rated data IEC / EN

| | | | |
|---|----------|---|-------------|
| Number of poles | 2 | Leakage current at U _n | 30 μA |
| Signalling contact | No | Rated voltage (DC) | 1000 V |
| PV voltage, acc. to IEC 60364-7-712 | ≤ 1000 V | Voltage type | DC |
| Response time / fallback time | ≤ 25 ns | Standards | EN 50539-11 |
| Max. continuous voltage, U _c (DC) | 1000 V | Discharge current I _n (8/20μs) wire-PE | 12.5 kA |
| Discharge current I _{max} (8/20μs) wire-PE | 25 kA | SPD type | T2 |
| Integrated back-up fuse | No | | |

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Connection data

| | | | |
|--|---------------------|--|--------------------|
| Stripping length | 15 mm | Type of connection | Screw connection |
| Stripping length, rated connection | 15 mm | Tightening torque, min. | 2 Nm |
| Tightening torque, max. | 3 Nm | Clamping range, rated connection | 16 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. | 16 mm ² |
| Wire connection cross section, finely stranded, min. | 1.5 mm ² | Wire connection cross section, finely stranded, max. | 25 mm ² |
| Conductor cross-section, flexible, AEH (DIN 46228-1), min. | 1.5 mm ² | Conductor cross-section, flexible, AEH (DIN 46228-1), max. | 50 mm ² |
| Connection cross-section, stranded, min. | 1.5 mm ² | Connection cross-section, stranded, max. | 50 mm ² |

Electrical data

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

General data

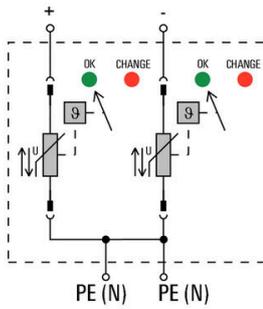
| | | | |
|-----------------|---------------|-------------------|------|
| Number of poles | 2 | Protection degree | IP20 |
| Colour | black, orange | | |

Classifications

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 8.0 | EC000941 | ETIM 9.0 | EC000941 |
| ETIM 10.0 | EC000941 | ECLASS 14.0 | 27-17-90-90 |
| ECLASS 15.0 | 27-17-90-90 | | |

Drawings

Electric symbol



Circuit diagram

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Accessories

Spare Arrester



General ordering data

| | | | |
|------------|----------------------------|---|--|
| Type | VPU II 0 PV 1000V DC | Version | |
| Order No. | 1351190000 | Surge voltage arrester, Low voltage, Accessories, Surge protection II | |
| GTIN (EAN) | 4050118158847 | | |
| Qty. | 1 ST | | |

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 | Version | |
| Order No. | 9008570000 | Screwdriver, Screwdriver | |
| GTIN (EAN) | 4032248056569 | | |
| Qty. | 1 ST | | |

Spare Arrester



General ordering data

| | | | |
|------------|----------------------------|---|--|
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| Order No. | 1351190000 | Surge voltage arrester, Low voltage, Accessories, Surge protection II | |
| GTIN (EAN) | 4050118158847 | | |
| Qty. | 1 ST | | |