

VPU AC II US 3+1 R 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, with remote contact, TN-C-S, TT, IT with N, TN-S |
| Order No. | 2736390000 |
| Type | VPU AC II US 3+1 R 240/50 |
| GTIN (EAN) | 4050118825787 |
| Qty. | 1 pc(s). |
| Replacement parts | 2730530000 2726820000 2855300000 |

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Technical data

Dimensions and weights

| | | | |
|--------------------------|------------|-----------------------------|------------|
| Depth | 68 mm | Depth (inches) | 2.677 inch |
| Depth including DIN rail | 76 mm | Height | 104.5 mm |
| Height (inches) | 4.114 inch | Width | 72 mm |
| Width (inches) | 2.835 inch | Mounting dimension - height | 75 mm |
| Net weight | 458 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, High-Leg Delta | | |

Connection data, remote alert

| | | | |
|--|---------|--|----------------------|
| Connection type | PUSH IN | Cross-section for connected wire, solid core, max. | 1.5 mm ² |
| Cross-section for connected wire, solid core, max. (AWG) | AWG 10 | Cross-section for connected wire, solid core, min. | 0.14 mm ² |
| Cross-section for connected wire, solid core, min. (AWG) | AWG 30 | Stripping length | 12 mm |

General data

| | | | |
|--------------------|---------------------------------------|---------------------------|---|
| Colour | orange, black, blue | 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, with remote contact | | |

Insulation coordination acc. to EN 50178

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

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Rated data IEC / EN

| | | | |
|--|--|---|---|
| Discharge current I_{\max} (8/20 μ s) N-PE | 65 kA | Discharge current I_{\max} (8/20 μ s) wire-PE | 50 kA |
| Discharge current I_n (8/20 μ s) N-PE | 40 kA | Discharge current I_n (8/20 μ s) wire-PE | 20 kA |
| Energy coordination (≤ 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 ≤ 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 | TN-C-S, TT, IT with N, TN-S | 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) | ≤ 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 | ≤ 25 ns, $<100\mu$ s | SPD type | T2 |
| Short-circuit current rating I_{SCCR} | 50 kA | Signalling contact | 250 V 1A 1CO |
| 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 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 |

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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 |
|-------------------------|---------|

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 |
|------------|--|

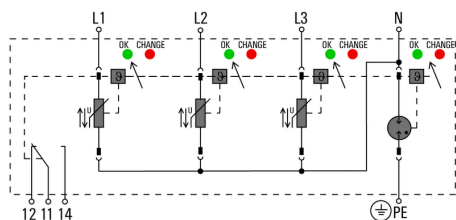
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Drawings

Electric symbol



Schematic circuit diagram