

VAL-US-240/40/1+1-FM - Surge protection device



2910362

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Surge protective device, UL Listed type 1 and IEC type 2, two channel with remote indicator contact for 240 V AC, 2-wire plus ground.

Your advantages

- With floating remote indication contact
- Optical, mechanical status indication for the individual arresters
- Mechanical coding of all slots

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 2910362 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | CL17 |
| Product key | CL132U |
| GTIN | 4055626445021 |
| Weight per piece (including packing) | 236 g |
| Weight per piece (excluding packing) | 214 g |
| Customs tariff number | 85363030 |
| Country of origin | DE |

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Technical data

Product properties

| | |
|--------------------------------|--|
| Product type | Surge protection for NEMA power supply units |
| Product family | VALVETRAB US |
| IEC test classification | II T2 |
| EN type | T2 |
| IEC power supply system | TN-S TT |
| Type | DIN rail module, two-section, divisible |
| Number of positions | 2 |
| Surge protection fault message | Optical, remote indicator contact |
| Number of ports | One |

Insulation characteristics

| | |
|----------------------|-----|
| Overvoltage category | III |
| Pollution degree | 2 |

Electrical properties

| | |
|-------------------------|---------------|
| Nominal frequency f_N | 50 Hz (60 Hz) |
|-------------------------|---------------|

Indicator/remote signaling

| | |
|--------------------|---------------------------------|
| Connection name | Remote fault indicator contact |
| Switching function | Changeover contact |
| Operating voltage | 5 V AC ... 250 V AC 30 V DC |
| Operating current | 5 mA AC ... 750 mA AC 1 A DC |

Connection data

| | |
|----------------------------------|---|
| Connection method | Screw connection |
| Screw thread | M5 |
| Tightening torque | 3 Nm (1.5 mm ² ... 16 mm ²) 4.5 Nm (25 mm ² ... 35 mm ²) |
| Stripping length | 16 mm |
| Conductor cross-section flexible | 1.5 mm ² ... 25 mm ² |
| Conductor cross-section rigid | 1.5 mm ² ... 35 mm ² |
| Conductor cross-section AWG | 15 ... 2 |
| Connection method | Fork-type cable lug |
| Conductor cross-section flexible | 1.5 mm ² ... 16 mm ² |

Remote fault indicator contact

| | |
|-------------------|---------------------------------------|
| Connection method | Plug-in/screw connection via COMBICON |
| Screw thread | M2 |

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| | |
|----------------------------------|--|
| Tightening torque | 0.25 Nm |
| Stripping length | 7 mm |
| Conductor cross-section flexible | 0.14 mm ² ... 1.5 mm ² |
| Conductor cross-section rigid | 0.14 mm ² ... 1.5 mm ² |
| Conductor cross-section AWG | 28 ... 16 |

Dimensions

| | |
|---------------------|---------------------------------|
| Dimensional drawing | |
| Width | 35.6 mm |
| Height | 96.8 mm |
| Depth | 65.7 mm (incl. DIN rail 7.5 mm) |
| Horizontal pitch | 2 Div. |

Material specifications

| | |
|--|------------------|
| Color | black (RAL 9005) |
| Flammability rating according to UL 94 | V-0 |
| CTI value of material | 600 |
| Insulating material | PA 6.6/PBT |
| Material group | I |
| Housing material | PA 6.6 PBT |

Mechanical properties

Mechanical data

| | |
|-----------------|----|
| Open side panel | No |
|-----------------|----|

Protective circuit

| | |
|--|------------------|
| Mode of protection | L-N N-PE |
| Direction of action | 1L-N & N-GND |
| Nominal voltage U_N | 240 V AC (TN-S) |
| Nominal frequency f_N | 50 Hz (60 Hz) |
| Maximum continuous operating voltage U_C (L-N) | 385 V AC |
| Maximum continuous operating voltage U_C (L-PE) | 385 V AC |
| Maximum continuous operating voltage U_C (N-PE) | 305 V AC |
| Nominal discharge current I_n (8/20) μ s | 20 kA |
| Maximum discharge current I_{max} (8/20) μ s | 40 kA |
| Follow current interrupt rating I_{fi} (N-PE) | 100 A (305 V AC) |
| Short-circuit current rating I_{SCCR} | 25 kA |
| Voltage protection level U_p (L-N) | ≤ 1.8 kV |

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| | |
|---------------------------------------|-------------------------------------|
| Voltage protection level U_p (N-PE) | ≤ 1.5 kV |
| Residual voltage U_{res} (L-N) | ≤ 1.8 kV (at I_n) |
| | ≤ 1.6 kV (at 10 kA) |
| | ≤ 1.4 kV (at 5 kA) |
| | ≤ 1.3 kV (at 3 kA) |
| Residual voltage U_{res} (L-PE) | ≤ 2.2 kV (at I_n) |
| | ≤ 1.7 kV (at 10 kA) |
| | ≤ 1.5 kV (at 5 kA) |
| | ≤ 1.4 kV (at 3 kA) |
| Residual voltage U_{res} (N-PE) | ≤ 0.4 kV (at I_n) |
| | ≤ 0.25 kV (at 10 kA) |
| | ≤ 0.15 kV (at 5 kA) |
| | ≤ 0.1 kV (at 3 kA) |
| TOV behavior at U_T (L-N) | 415 V AC (5 s / withstand mode) |
| | 440 V AC (120 min / withstand mode) |
| TOV behavior at U_T (N-PE) | 1200 V AC (200 ms / withstand mode) |
| Response time t_A (L-N) | ≤ 25 ns |
| Response time t_A (L-PE) | ≤ 100 ns |
| Response time t_A (N-PE) | ≤ 100 ns |
| Max. backup fuse with branch wiring | 125 A (gG) |

Environmental and real-life conditions

Ambient conditions

| | |
|---|---|
| Degree of protection | IP20 (only when all terminal points are used) |
| Ambient temperature (operation) | -40 °C ... 80 °C |
| Ambient temperature (storage/transport) | -40 °C ... 80 °C |
| Altitude | ≤ 2000 m (amsl) |
| Permissible humidity (operation) | 5 % ... 95 % |
| Shock (operation) | 25g (Half-sine / 11 ms / 3x $\pm X$, $\pm Y$, $\pm Z$) |
| Vibration (operation) | 5g (10 ... 500 Hz / 2.5 h / X, Y, Z) |

Approvals

UL specifications

| | |
|---|----------|
| Maximum continuous operating voltage MCOV (L-N) | 385 V AC |
| Maximum continuous operating voltage MCOV (L-G) | 385 V AC |
| Maximum continuous operating voltage MCOV (N-G) | 305 V AC |
| Short-circuit current rating (SCCR) | 200 kA |
| Voltage protection rating VPR (L-N) | 1500 V |
| Voltage protection rating VPR (L-G) | 2000 V |
| Voltage protection rating VPR (N-G) | 1200 V |
| UL type | type 1 |
| Nominal discharge current I_n | 20 kA |
| Maximum Surge Current per Phase | 40 kA |

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| | |
|---------------------------|-------------------------|
| Mode of protection | L-N |
| | L-G |
| | N-G |
| Nominal voltage | 240 V AC (Single Phase) |
| Power distribution system | Single phase |
| Nominal frequency | 50/60 Hz |
| SPD Type | 1 |

UL indicator/remote signaling

| | |
|----------------------|----------|
| Operating voltage | 125 V AC |
| AC operating current | 1 A AC |

UL connection data

| | |
|-----------------------------|-------------------------|
| Tightening torque | 30 lb _f -in. |
| Conductor cross-section AWG | 14 ... 2 |

Standards and regulations

Air clearances and creepage distances

| | |
|--------------------------|--------------------------|
| Standards/regulations | EN 60664-1 / EN 61643-11 |
| Standards/specifications | IEC 61643-11 |
| Note | 2011 |
| Standards/specifications | EN 61643-11 |
| Note | 2012 |

Mounting

| | |
|---------------|-----------------|
| Mounting type | DIN rail: 35 mm |
|---------------|-----------------|

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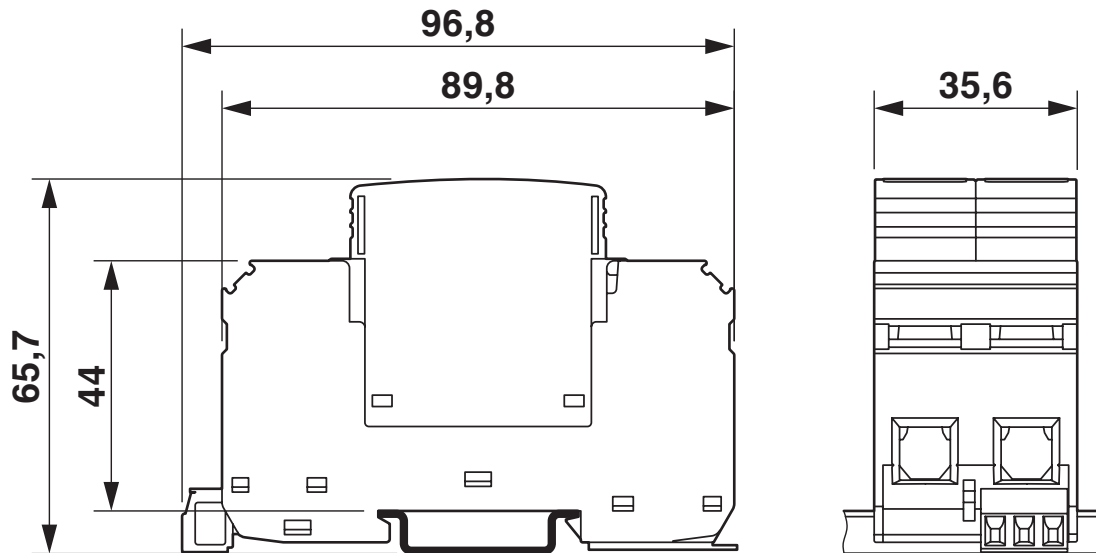


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Drawings

Dimensional drawing



Circuit diagram



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Approvals

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UL Listed

Approval ID: FILE E 330181



cUL Listed

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27171202 |
| ECLASS-15.0 | 27171202 |

ETIM

| | |
|-----------|----------|
| ETIM 10.0 | EC000941 |
|-----------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 39121600 |
|-------------|----------|

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Environmental product compliance

EU RoHS

| | |
|---|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|---|--------------------|

China RoHS

| | |
|--|--|
| Environment friendly use period (EFUP) | EFUP-E |
| | No hazardous substances above the limits |

EU REACH SVHC

| | |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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