

VAL-US-600D/30/3+0-FM - Surge protection device



2910391

<https://www.phoenixcontact.com/us/products/2910391>

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Surge protective device, UL Listed type 1 and IEC type 2, three channel with remote indicator contact for 600 V AC DELTA.

Your advantages

- Multi-channel type 2 protective devices
- Mechanical coding of all slots
- Optical, mechanical status indication for the individual arresters
- Disconnect device on each individual plug
- Type 2 consistent plug-in surge arresters

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 2910391 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | CL17 |
| Product key | CL132U |
| GTIN | 4055626445281 |
| Weight per piece (including packing) | 389.7 g |
| Weight per piece (excluding packing) | 364.89 g |
| Customs tariff number | 85363030 |
| Country of origin | DE |

Technical data

Notes

General

| Note | |
|------|--|
| | For use in all low-voltage systems between L-PEN. |
| | Only for use in IT systems between L-PE if the exposed conductive parts of the equipment of the low-voltage electrical installation are connected to the grounding system of the transformer station (common grounding of the HV transformer station and the exposed conductive part of the LV load system). |
| | RE = RA according to VDE 0100-442:2013, Figure 44.A1 and Table 44.A1 |

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-C |
| | IT |
| Type | DIN rail module, two-section, divisible |
| Distance between live and grounded parts | 8 mm |
| Number of positions | 3 |
| Surge protection fault message | Optical, remote indicator contact |

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 ... 1.5 A AC |
| | 1 A DC |

Connection data

| | |
|-------------------|--|
| Connection method | Screw connection |
| Screw thread | M5 |
| Tightening torque | 3 Nm (1.5 mm ² ... 16 mm ²) |

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| | |
|----------------------------------|---|
| | 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 |
| 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 | 53.4 mm |
| Height | 98.7 mm |
| Depth | 65.7 mm (incl. DIN rail 7.5 mm) |
| Horizontal pitch | 3 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-PE |
| Direction of action | 3L-GND |

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| | |
|--|---|
| Nominal voltage U_N | 600 V AC (Delta TN-S) |
| Nominal frequency f_N | 50 Hz (60 Hz) |
| Maximum continuous operating voltage U_C | 750 V AC |
| Standby power consumption P_C | ≤ 400 mVA |
| Nominal discharge current I_n (8/20) μ s | 15 kA |
| Maximum discharge current I_{max} (8/20) μ s | 30 kA |
| Short-circuit current rating I_{SCCR} | 25 kA |
| Voltage protection level U_p | ≤ 2.9 kV |
| Residual voltage U_{res} | ≤ 2.9 kV (at I_n) |
| | ≤ 2.7 kV (at 10 kA) |
| | ≤ 2.5 kV (at 5 kA) |
| | ≤ 2.3 kV (at 3 kA) |
| TOV behavior at U_T | 1000 V AC (5 s / withstand mode) |
| | 1056 V AC (120 min / safe failure mode) |
| Max. backup fuse with branch wiring | 100 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 | 750 V AC |
| Short-circuit current rating (SCCR) | 200 kA |
| Voltage protection rating VPR (L-L) | 4000 V |
| Voltage protection rating VPR (L-G) | 2500 V |
| UL type | type 1 |
| Nominal discharge current I_n | 20 kA |
| Maximum Surge Current per Phase | 30 kA |
| Mode of protection | L-L |
| | L-G |
| Nominal voltage | 600 V AC (3-phase Delta) |
| Power distribution system | Delta |
| Nominal frequency | 50/60 Hz |
| SPD Type | 1 |

UL indicator/remote signaling

| | |
|-------------------|----------|
| Operating voltage | 125 V AC |
|-------------------|----------|

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

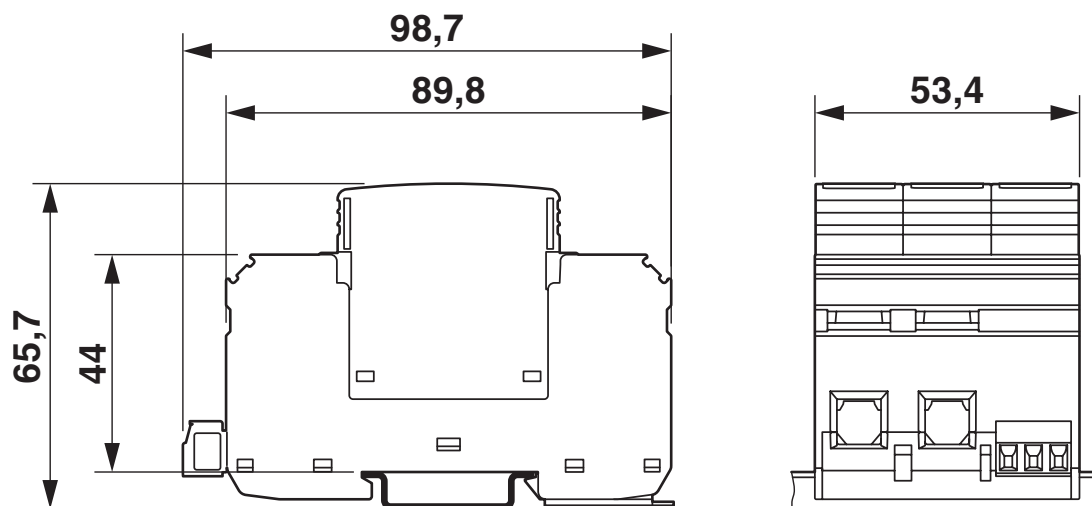
| | |
|--------------------------|--------------------------|
| Standards/regulations | EN 60664-1 / EN 61643-11 |
| Standards/specifications | IEC 61643-11 |
| Note | 2011 |
| Standards/specifications | EN 61643-11 |
| Note | 2012 |

Mounting

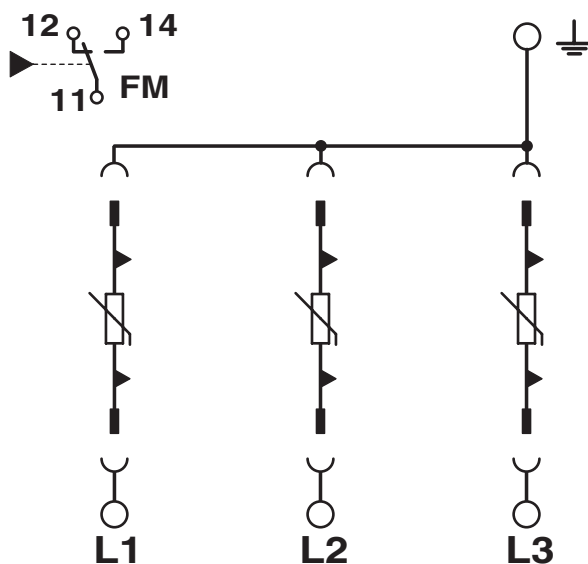
| | |
|---------------|-----------------|
| Mounting type | DIN rail: 35 mm |
|---------------|-----------------|

Drawings

Dimensional drawing



Circuit diagram



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Approvals

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UL Listed

Approval ID: FILE E 330181



cUL Listed

Approval ID: FILE E 330181

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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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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com