

VAL-MS/3+0/HD-BE - Type 2 surge protection base element



2920492

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Base element for type 2 arresters of the VALVETRAB MS product range. Version for 3-phase power supply with PEN conductor.

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 2920492 |
| Packing unit | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | CL01 |
| Product key | CL1322 |
| GTIN | 4046356182652 |
| Weight per piece (including packing) | 229.2 g |
| Weight per piece (excluding packing) | 398.2 g |
| Customs tariff number | 85363030 |
| Country of origin | DE |

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Technical data

Notes

General

| | |
|------|---|
| Note | For installation into a touch protected cabinet. For applications with $U_C > 500$ V distances at the side and distances at the connection area must be minimum of 8 mm between different active parts including earthed parts. |
|------|---|

Product properties

| | |
|--------------------------------|---|
| Product type | Base element |
| Product family | VALVETRAB MS |
| IEC test classification | II T2 |
| EN type | T2 |
| Type | DIN rail module, two-section, divisible |
| Number of positions | 3 |
| Surge protection fault message | none |

Insulation characteristics

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

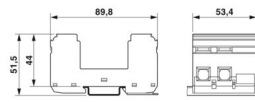
Electrical properties

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

Connection data

| | |
|----------------------------------|--|
| Connection method | Screw connection |
| Screw thread | M5 |
| Tightening torque | 4.5 Nm |
| 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 |

Dimensions

| | |
|---------------------|--|
| Dimensional drawing |  |
| Width | 53.4 mm |
| Height | 90 mm |
| Depth | 44 mm |

Material specifications

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| | |
|--|-----|
| Flammability rating according to UL 94 | V-0 |
| CTI value of material | 600 |
| Insulating material | PBT |
| Material group | I |
| Housing material | PBT |

Mechanical properties

Mechanical data

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

Protective circuit

| | |
|---|---------------|
| Direction of action | 3L-PEN |
| Nominal frequency f_N | 50 Hz (60 Hz) |
| Maximum continuous operating voltage U_C | 1000 V AC |
| Rated load current I_L | 80 A |
| Short-circuit current rating I_{SCCR} | 25 kA |
| Max. backup fuse with V-type through wiring | 80 A AC (gG) |
| Max. backup fuse with branch wiring | 200 A AC (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 |
| Vibration (operation) | 5g |

Approvals

UL specifications

| | |
|-----------------|-----------------------------|
| Nominal voltage | 690 V AC |
| SPD Type | 4 (for Type 2 applications) |

UL connection data

| | |
|-----------------------------|-------------------------|
| Tightening torque | 30 lb _F -in. |
| Conductor cross-section AWG | 10 ... 2 |

Standards and regulations

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

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Mounting

| Mounting type |
|---------------|
|---------------|

| |
|-----------------|
| DIN rail: 35 mm |
|-----------------|

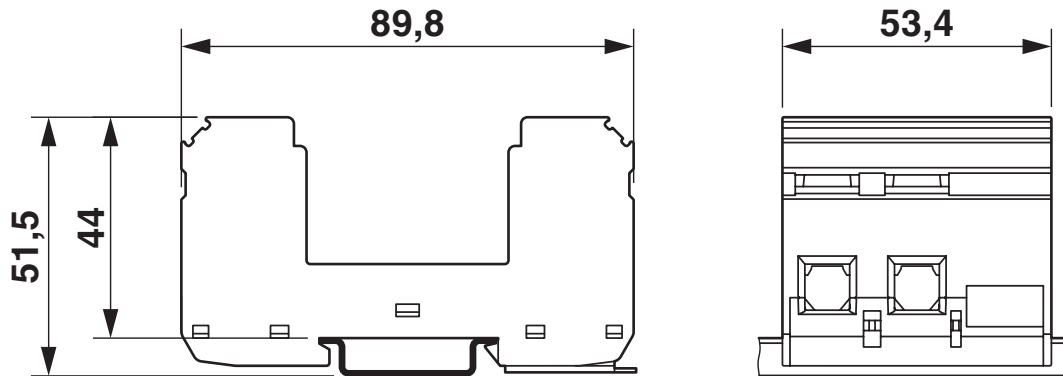
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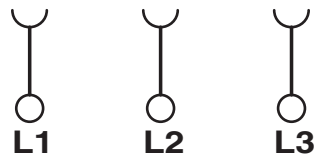
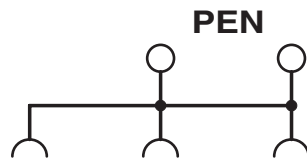
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Drawings

Dimensional drawing



Circuit diagram



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Environmental product compliance

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