

Type 2 surge protection base element - VAL-MS BE/FM - 2817738

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Base element for type 2 arresters of the VALVETRAB MS series of products, with remote indication contact.
Design: 1-channel

Product Features

- Versions with and without floating remote indication contact
- Single/multi-position design for accommodating protective plugs
- DIN rail module
- Coding when protective plug is inserted for the first time



Key Commercial Data

| | |
|--------------------------------------|---|
| Packing unit | 1 pc |
| GTIN |  4 017918 148157 |
| Weight per Piece (excluding packing) | 77.23 g |
| Custom tariff number | 85363010 |
| Country of origin | Germany |

Technical data

Dimensions

| | |
|------------------|---------|
| Height | 97 mm |
| Width | 17.6 mm |
| Depth | 44 mm |
| Horizontal pitch | 1 Div. |

Ambient conditions

| | |
|---------------------------------|---|
| Degree of protection | IP20 (only when all terminal points are used) |
| Ambient temperature (operation) | -40 °C ... 80 °C |

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Ambient conditions

| | |
|---|--|
| Ambient temperature (storage/transport) | -40 °C ... 80 °C |
| Altitude | ≤ 2000 m (amsl (above mean sea level)) |
| Permissible humidity (operation) | 5 % ... 95 % |
| Shock (operation) | 25g |
| Vibration (operation) | 5g |

General

| | |
|--|---|
| Standards/specifications | IEC 61643-11 2011 |
| | EN 61643-11 2012 |
| IEC test classification | II |
| | T2 |
| EN type | T2 |
| Mounting type | DIN rail: 35 mm |
| Color | black |
| Housing material | PA 6.6 |
| Degree of pollution | 2 |
| Flammability rating according to UL 94 | V-0 |
| Type | DIN rail module, two-section, divisible |
| Number of positions | 1 |
| Surge protection fault message | Remote indicator contact |

Additional descriptions

| | |
|------|---|
| 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 5 mm between different active parts including earthed parts. |
|------|---|

Protective circuit

| | |
|---|---------------|
| Nominal frequency f_N | 50 Hz (60 Hz) |
| Maximum continuous voltage U_c | 600 V AC |
| Rated load current I_L | 80 A |
| Short-circuit current rating I_{SCCR} | 25 kA |
| Max. backup fuse with branch wiring | 125 A AC (gG) |
| Max. backup fuse with V-type through wiring | 80 A AC (gG) |

Indicator/remote signaling

| | |
|--------------------|--------------------------------|
| Connection name | Remote fault indicator contact |
| Switching function | PDT contact |
| Operating voltage | 5 V AC ... 250 V AC |
| | 125 V AC (UL) |
| | 30 V DC |

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Indicator/remote signaling

| | |
|---------------------------------------|-----------------------------|
| Operating current | 5 mA AC ... 1 A |
| | 1 A (UL) |
| | 1 A |
| Connection method | Screw connection |
| Screw thread | M2 |
| Tightening torque | 0.25 Nm |
| | 4 lb _F -in. (UL) |
| Stripping length | 7 mm |
| Conductor cross section flexible min. | 0.14 mm ² |
| Conductor cross section flexible max. | 1.5 mm ² |
| Conductor cross section solid min. | 0.14 mm ² |
| Conductor cross section solid max. | 1.5 mm ² |
| Conductor cross section AWG | 28 ... 16 |
| | 30 ... 14 (UL) |

Connection data

| | |
|---------------------------------------|------------------------------|
| Connection method | Screw connection |
| Conductor cross section flexible min. | 1.5 mm ² |
| Conductor cross section flexible max. | 25 mm ² |
| Conductor cross section solid min. | 1.5 mm ² |
| Conductor cross section solid max. | 35 mm ² |
| Conductor cross section AWG | 15 ... 2 |
| | 10 ... 2 (UL) |
| Screw thread | M5 |
| Tightening torque | 4.5 Nm |
| | 30 lb _F -in. (UL) |
| Stripping length | 16 mm |

UL specifications

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

UL indicator/remote signaling

| | |
|-----------------------------|------------------------|
| Operating voltage | 125 V AC |
| Operating current | 1 A |
| Tightening torque | 4 lb _F -in. |
| Conductor cross section AWG | 30 ... 14 |

UL connection data

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Technical data

UL connection data

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

Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 4.0 | 27140201 |
| eCl@ss 4.1 | 27130801 |
| eCl@ss 5.0 | 27130801 |
| eCl@ss 5.1 | 27130801 |
| eCl@ss 6.0 | 27130803 |
| eCl@ss 7.0 | 27130803 |
| eCl@ss 8.0 | 27130803 |

ETIM

| | |
|----------|----------|
| ETIM 2.0 | EC000472 |
| ETIM 3.0 | EC000472 |
| ETIM 4.0 | EC000472 |
| ETIM 5.0 | EC000472 |

UNSPSC

| | |
|---------------|----------|
| UNSPSC 6.01 | 30212010 |
| UNSPSC 7.0901 | 39121610 |
| UNSPSC 11 | 39121610 |
| UNSPSC 12.01 | 39121610 |
| UNSPSC 13.2 | 39121620 |

Approvals

Approvals

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ÖVE / IECCEB Scheme / CSA / UL Recognized / KEMA-KEUR / cUL Recognized / GL / CCA / EAC / EAC / cULus Recognized

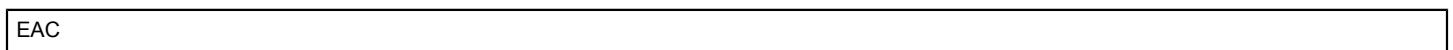
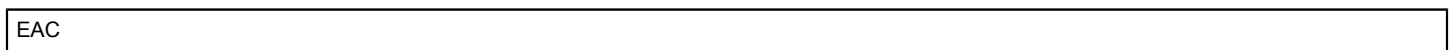
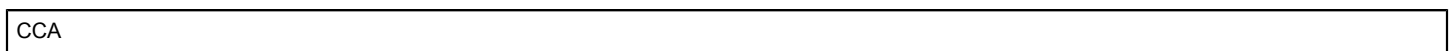
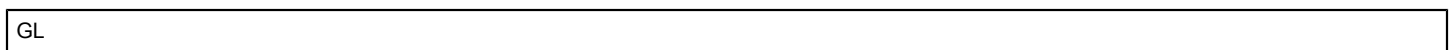
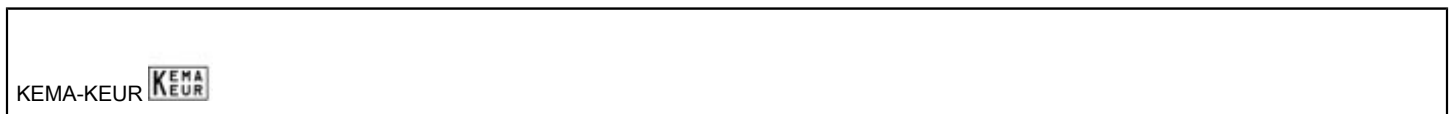
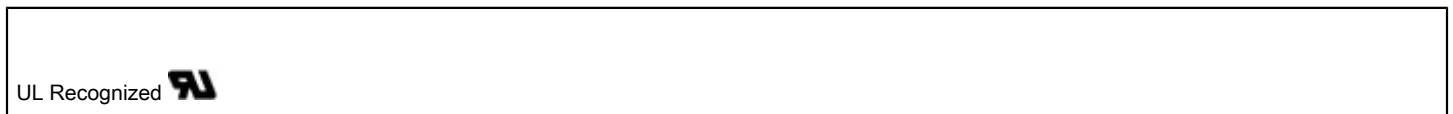
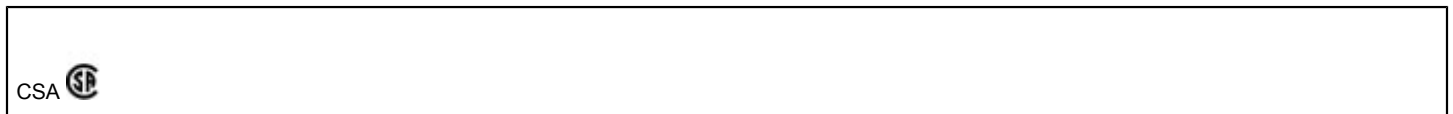
Ex Approvals

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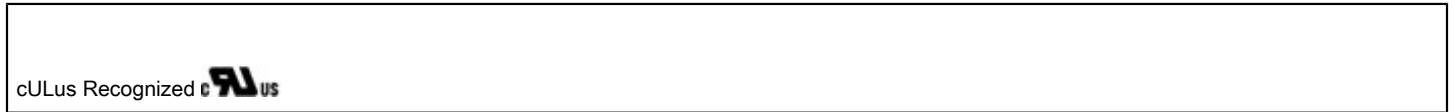
Approvals submitted

Approval details



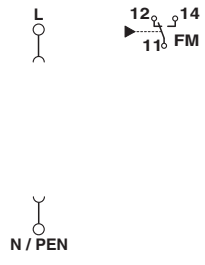
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Drawings

Circuit diagram



Dimensional drawing

