# Type 2 surge protection base element - VAL-MS/1+1-BE/ FM - 2920531



Base element for type 2 arresters of the VALVETRAB MS product range, with remote indication contact. Version for 1-phase power supply with separate installation of N and PE conductors.

## 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

| | |
|---|---|
| **package_quantity** | 1 |
| **GTIN** | 4046356298995 |

## Technical data

### Dimensions

| | |
|---|---|
| **Height** | 99 mm |
| **Width** | 35.6 mm |
| **Depth** | 51.5 mm |
| **Pitch unit** | 2 Div. |

### Ambient conditions

| | |
|---|---|
| **Degree of protection** | IP20 |
| **Ambient temperature (operation)** | -40 °C ... 80 °C |

### General

| | |
|---|---|
| **Housing material** | PBT |
| **Inflammability class according to UL 94** | V0 |
| **Color** | black |
| **Standards for air and creepage distances** | DIN EN 60664-1 |
| **Standards for air and creepage distances** | IEC 61643-1 |
| **Mounting type** | DIN rail: 35 mm |
| **Design** | DIN rail module, two-section, divisible |

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## Technical data

### General

| | |
|---|---|
| **Number of positions** | 2 |
| **Message: Surge protection fault** | Remote indicator contact |
| **Direction of action** | 1L-N & N-PE |

### Protective circuit

| | |
|---|---|
| **Nominal voltage $U_N$** | 240 V AC (1P/N/PE) |
| **Maximum continuous operating voltage $U_C$** | 500 V AC |
| **Rated load current $I_L$** | 80 A (Serial through wiring at 16 mm²) |
| **Max. required backup fuse with branch wiring** | 200 A (gL/gG) |
| **Max. required backup fuse with V-type through wiring** | 80 A (gL/gG / with 16 mm²) |
| **Short-circuit resistance $I_P$ with max. backup fuse (effective)** | 25 kA |

### Connection, protective circuit

| | |
|---|---|
| **Connection method** | Screw connection |
| **Connection type IN** | Biconnect screw terminal block |
| **Connection type OUT** | Biconnect screw terminal block |
| **Screw thread** | M5 |
| **Tightening torque** | 4.5 Nm |
| **Stripping length** | 16 mm |
| **Conductor cross section stranded min.** | 1.5 mm² |
| **Conductor cross section stranded max.** | 25 mm² |
| **Conductor cross section solid min.** | 1.5 mm² |
| **Conductor cross section solid max.** | 35 mm² |
| **Conductor cross section AWG/kcmil min.** | 15 |
| **Conductor cross section AWG/kcmil max** | 2 |

### Remote indicator contact

| | |
|---|---|
| **Connection name** | Remote fault indicator contact |
| **Switching function** | PDT, 1-pos. |
| **Connection method** | Screw connection |
| **Screw thread** | M2 |
| **Tightening torque** | 0.25 Nm |
| **Stripping length** | 7 mm |
| **Conductor cross section stranded min.** | 0.14 mm² |
| **Conductor cross section stranded max.** | 1.5 mm² |
| **Conductor cross section solid min.** | 0.14 mm² |
| **Conductor cross section solid max.** | 1.5 mm² |
| **Conductor cross section AWG/kcmil min.** | 28 |
| **Conductor cross section AWG/kcmil max** | 16 |
| **Maximum operating voltage $U_{max.}$ AC** | 250 V AC |
| **Maximum operating voltage $U_{max}$ DC** | 30 V DC |

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## Technical data

### Remote indicator contact

| | |
|---|---|
| **Max. operating current $I_{max}$** | 1.5 A AC (250 V AC) |
| **Max. operating current $I_{max}$** | 1.5 A DC (30 V DC) |

### Standards and Regulations

| | |
|---|---|
| **Standards/regulations** | IEC 61643-1 2005 |
| **Standards/regulations** | EN 61643-11/A11 2007 |

## 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** | 27130805 |
| **eCl@ss 7.0** | 27130805 |
| **eCl@ss 8.0** | 27130805 |

### ETIM

| | |
|---|---|
| **ETIM 2.0** | EC000941 |
| **ETIM 3.0** | EC000941 |
| **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

ÖVE / UL Recognized / KEMA-KEUR / cUL Recognized / GOST / GL / CCA / IECEE CB Scheme / ÖVE / cULus Recognized /

### Approval details

| |
|---|
| **ÖVE** |

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## approvals

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## accessories

**Labeled device marker**

ZBN 18,LGS:ERDE - 2749589

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accessories

ZBN 18,LGS:L1-N,ERDE - 2749576

**Device marking**

ZBN 18:UNBEDRUCKT - 2809128

**Marker pen**

B-STIFT - 1051993

**Feed-through terminal block**

DK-BIC-35 - 2749880

**Bridge**

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## accessories

MPB F200X16/ 1GS - 2818339

MPB F400X16/ 1GS - 2818342

MPB F600X16/ 1GS - 2818355

## accessories

ZBN 18:SO/CMS - 0800763

ZBN 18,LGS:L1-N,ERDE - 2830469

## Drawings

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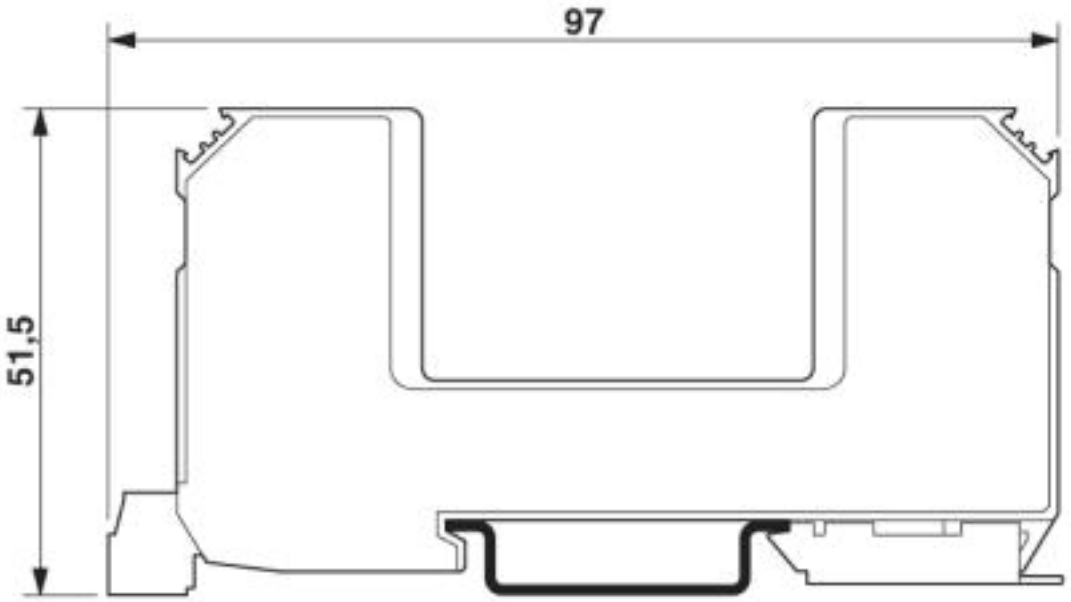
Dimensioned drawing



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Circuit diagram