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# Type 2 surge protection base element - VAL-MS BE - 2817741

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Base element for type 2 arresters of the VALVETRAB MS series of products. Design: 1-channel



The illustration shows the base element with remote indication contact

## Why buy this product

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



## Key commercial data

|                        |   |
|------------------------|---|
| Packing unit           | 1   |
| Minimum order quantity | 10  |
| Catalog page           | Page 45 (TT-2011)   |
| GTIN                   | <br>4 017918 148164 |
| Custom tariff number   | 85363010  |
| Country of origin      | GERMANY   |

## Technical data

### Standards

|   |   |
|---|---|
| Housing material                        | PA                                      |
| Inflammability class according to UL 94 | V0                                      |
| Color                                   | black                                   |
| Degree of protection                    | IP20                                    |
| Mounting type                           | DIN rail: 35 mm                         |
| Design                                  | DIN rail module, two-section, divisible |
| Number of positions                     | 1                                       |
| Ambient temperature (operation)         | -40 °C ... 80 °C                        |
| Altitude                                | max. 2000 m                             |
| Message: Surge protection fault         | None                                    |

# Type 2 surge protection base element - VAL-MS BE - 2817741

## Technical data

### Standards

|            |         |
|------------|---------|
| Width      | 17.7 mm |
| Height     | 90 mm   |
| Depth      | 52 mm   |
| Pitch unit | 1 Div.  |

### Protective circuit

|   |               |
|---|---------------|
| Nominal voltage UN  | 500 V AC      |
| Arrester rated voltage UC                                     | 600 V AC      |
| Nominal frequency fN  | 50 Hz (60 Hz) |
| Max. required backup fuse with branch wiring                  | 125 A (gL/gG) |
| Short-circuit resistance IP with max. backup fuse (effective) | 25 kA         |

### Connection, protective circuit

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

### Standards

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

## Classifications

### eclass

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

### etim

|          |          |
|----------|----------|
| ETIM 2.0 | EC000472 |
| ETIM 3.0 | EC000472 |

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## Classifications

### etim

|          |          |
|----------|----------|
| 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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#### Approvals

ÖVE / IECB Scheme / CSA / UL Recognized / KEMA-KEUR / cUL Recognized / GOST / GL / CCA / ÖVE / cULus Recognized

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#### Ex Approvals

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#### Approvals submitted

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### Approval details

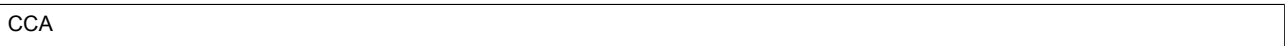
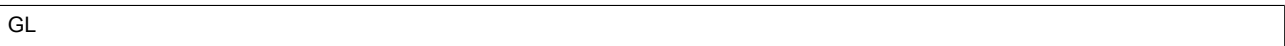
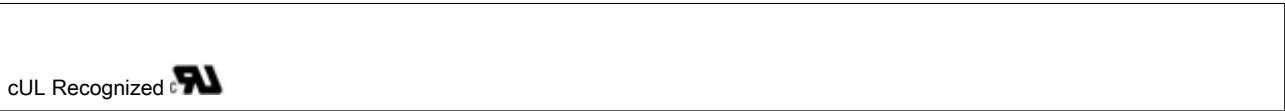


IECEE CB Scheme



# Type 2 surge protection base element - VAL-MS BE - 2817741

## Approvals



## Accessories

### Accessories

### Bridges

Wiring bridge - MPB 18/1- 2 - 2809209



Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 2-pos.

Wiring bridge - MPB 18/1- 3 - 2809212



Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 3-pos.

## Type 2 surge protection base element - VAL-MS BE - 2817741

### Accessories

Wiring bridge - MPB 18/1- 4 - 2809225



Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 4-pos.

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Wiring bridge - MPB 18/1- 6 - 2748564



Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 6-pos.

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Wiring bridge - MPB 18/1- 7 BU - 2856278



Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 7-pos., color: Blue

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Wiring bridge - MPB 18/1- 8 BU - 2858470



Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 8-pos., color: Blue

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Wiring bridge - MPB 18/1- 8 - 2748577



Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 8-pos.

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Wiring bridge - MPB 18/1- 9 - 2748580



Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 9-pos.

## Type 2 surge protection base element - VAL-MS BE - 2817741

### Accessories

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Wiring bridge - MPB 18/1-12 - 2748593



Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 12-pos.

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Wiring bridge - MPB 18/1-57 - 2809238



Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 57-pos.

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Wiring bridge - MPB 18/3- 6 - 2809241



Wiring bridge for modules with connecting pitch 17.5 mm, 3-phase, 6-pos.

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Wiring bridge - MPB 18/3- 9 - 2809254



Wiring bridge for modules with connecting pitch 17.5 mm, 3-phase, 9-pos.

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Wiring bridge - MPB 18/4- 8 - 2809283



Wiring bridge for modules with connecting pitch 17.5 mm, 4-phase, 8-pos.

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## Type 2 surge protection base element - VAL-MS BE - 2817741

### Accessories

Wiring bridge - MPB 18/4-12 - 2809296



Wiring bridge for modules with connecting pitch 17.5 mm, 4-phase, 12-pos.

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Wiring bridge - MPB F200X16/ 1GS - 2818339



Wiring bridge flexible, diameter 16 mm<sup>2</sup>, with a fork-type cable lug on one side, length: 200 mm

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Wiring bridge - MPB F400X16/ 1GS - 2818342



Wiring bridge flexible, diameter 16 mm<sup>2</sup>, with a fork-type cable lug on one side, length: 400 mm

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Wiring bridge - MPB F600X16/ 1GS - 2818355



Wiring bridge flexible, diameter: 16 mm<sup>2</sup>, with a fork-type cable lug on one side, length: 600 mm

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Wiring bridge - MPB F600X16/ 1GS - 2818355



Wiring bridge flexible, diameter: 16 mm<sup>2</sup>, with a fork-type cable lug on one side, length: 600 mm

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Wiring bridge - MPB F400X16/ 1GS - 2818342



Wiring bridge flexible, diameter 16 mm<sup>2</sup>, with a fork-type cable lug on one side, length: 400 mm



## Type 2 surge protection base element - VAL-MS BE - 2817741

### Accessories

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Wiring bridge - MPB F200X16/ 1GS - 2818339



Wiring bridge flexible, diameter 16 mm<sup>2</sup>, with a fork-type cable lug on one side, length: 200 mm

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Wiring bridge - MPB 18/1-20/1.2.5 - 2830168



Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 20 pitches with contact sequence 1-2-0-0-5

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Wiring bridge - MPB 18/4-12 - 2809296



Wiring bridge for modules with connecting pitch 17.5 mm, 4-phase, 12-pos.

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Wiring bridge - MPB 18/4- 8 - 2809283



Wiring bridge for modules with connecting pitch 17.5 mm, 4-phase, 8-pos.

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Wiring bridge - MPB 18/3- 6 - 2809241



Wiring bridge for modules with connecting pitch 17.5 mm, 3-phase, 6-pos.

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## Type 2 surge protection base element - VAL-MS BE - 2817741

### Accessories

Wiring bridge - MPB 18/1-57 - 2809238



Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 57-pos.

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Wiring bridge - MPB 18/1-12 - 2748593



Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 12-pos.

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Wiring bridge - MPB 18/1- 9 - 2748580



Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 9-pos.

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Wiring bridge - MPB 18/1- 8 - 2748577



Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 8-pos.

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Wiring bridge - MPB 18/1- 6 - 2748564



Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 6-pos.

---

Wiring bridge - MPB 18/1- 4 - 2809225



Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 4-pos.

## Type 2 surge protection base element - VAL-MS BE - 2817741

### Accessories

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Wiring bridge - MPB 18/1- 3 - 2809212



Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 3-pos.

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Wiring bridge - MPB 18/1- 2 - 2809209



Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 2-pos.

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### Marking

Zack marker strip - ZBN 18,LGS:ERDE - 2749589



Zack marker strip, Strip, white, Labeled, Horizontal: Grounding symbol, Mounting type: Snap into tall marker groove, For terminal block width: 18 mm, Lettering field: 18 x 5 mm

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Zack marker strip - ZBN 18,LGS:L1-N,ERDE - 2749576



Zack marker strip, Strip, white, Labeled, Horizontal: L1, L2, L3, N, GND, Mounting type: Snap into tall marker groove, For terminal block width: 18 mm, Lettering field: 18 x 5 mm

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Zack marker strip - ZBN 18:UNBEDRUCKT - 2809128



Zack marker strip, Strip, white, Unlabeled, Can be labeled with: Plotter, Mounting type: Snap into tall marker groove, For terminal block width: 18 mm, Lettering field: 18 x 5 mm

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## Type 2 surge protection base element - VAL-MS BE - 2817741

### Accessories

Marker pen - B-STIFT - 1051993



Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm

Feed-through terminal block - DK-BIC-35 - 2749880



Feed-through terminal block for VAL and FLT applications

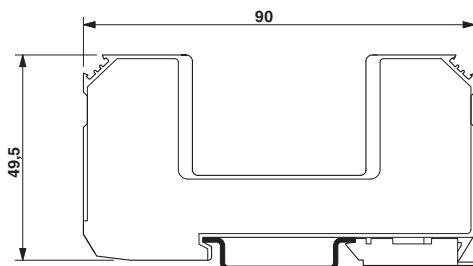
Wiring bridge - MPB 18/1-10/1.0.0 - 2830443



Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 10 pitches with contact sequence 1-0-0

### Drawings

Dimensioned drawing



# Type 2 surge protection base element - VAL-MS BE - 2817741

Circuit diagram

