

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

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://download.phoenixcontact.com>)



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

### Why buy this product

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



### Key commercial data

|                        |                                                                                                         |
|------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit           | 1                                                                                                       |
| Minimum order quantity | 10                                                                                                      |
| Catalog page           | Page 45 (TT-2011)                                                                                       |
| GTIN                   | <br>4 017918 148157 |
| 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         | Remote indicator contact                |
| Width                                   | 17.7 mm                                 |
| Height                                  | 97 mm                                   |

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

## Technical data

### Standards

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

### 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 mm <sup>2</sup>           |
| Conductor cross section stranded max.         | 1.5 mm <sup>2</sup>            |
| Conductor cross section solid min.            | 0.14 mm <sup>2</sup>           |
| Conductor cross section solid max.            | 1.5 mm <sup>2</sup>            |
| Conductor cross section AWG/kcmil min.        | 28                             |
| Conductor cross section AWG/kcmil max         | 16                             |
| Maximum operating voltage U <sub>max</sub> AC | 250 V AC                       |
| Maximum operating voltage U <sub>max</sub> DC | 125 V DC                       |
| Max. operating current I <sub>max</sub>       | 1 A AC                         |
| Max. operating current I <sub>max</sub>       | 0.2 A DC                       |
| Min. permissible switching capacity           | 0.12 VA (12 V, 10 mA)          |

### Standards

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

## Technical data

### 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 |
| 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

#### Approvals

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

#### Ex Approvals

#### Approvals submitted

#### Approval details

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

### Approvals

ÖVE 

IECEE CB Scheme

CSA 

UL Recognized 

KEMA-KEUR 

cUL Recognized 

GOST 

GL

CCA

ÖVE 

cULus Recognized 

### Accessories

Accessories

Bridges

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

### Accessories

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.

---

Wiring bridge - MPB 18/1- 4 - 2809225



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

---

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- 7 BU - 2856278



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

---

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



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

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

### Accessories

---

Wiring bridge - MPB 18/1- 8 - 2748577



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

---

Wiring bridge - MPB 18/1- 9 - 2748580



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

---

Wiring bridge - MPB 18/1-12 - 2748593



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

---

Wiring bridge - MPB 18/1-57 - 2809238



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

---

Wiring bridge - MPB 18/3- 6 - 2809241



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

---

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

### Accessories

Wiring bridge - MPB 18/3- 9 - 2809254



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

---

Wiring bridge - MPB 18/4- 8 - 2809283



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

---

Wiring bridge - MPB 18/4-12 - 2809296



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

---

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

---

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

---

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

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

### Accessories

---

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

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

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

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

Wiring bridge - MPB 18/4-12 - 2809296



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

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

### Accessories

Wiring bridge - MPB 18/4- 8 - 2809283



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

---

Wiring bridge - MPB 18/3- 6 - 2809241



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

---

Wiring bridge - MPB 18/1-57 - 2809238



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

---

Wiring bridge - MPB 18/1-12 - 2748593



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

---

Wiring bridge - MPB 18/1- 9 - 2748580



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

---

Wiring bridge - MPB 18/1- 8 - 2748577



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

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

### Accessories

---

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.

---

Wiring bridge - MPB 18/1- 3 - 2809212



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

---

Wiring bridge - MPB 18/1- 2 - 2809209



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

---

### 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

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

### Accessories

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

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

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

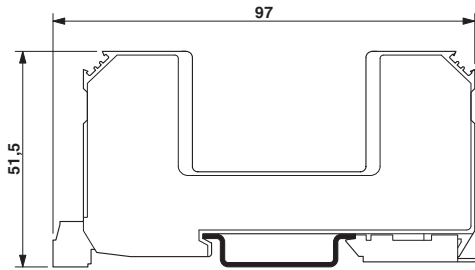


Wiring bridge for modules with connecting pitch 17.5 mm, 1-phase, 10 pitches with contact sequence 1-0-0

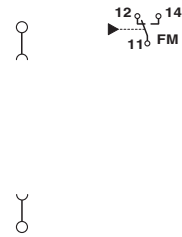
### Drawings

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

Dimensioned drawing



Circuit diagram



## Данный компонент на территории Российской Федерации

**Вы можете приобрести в компании MosChip.**

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

### Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: [info@moschip.ru](mailto:info@moschip.ru)

Skype отдела продаж:

moschip.ru

moschip.ru\_4

moschip.ru\_6

moschip.ru\_9