

# Lightning/surge arrester type 1/2 - VAL-MS+TE-AR-T1/T2 75/P-FM - 2906321

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## Why buy this product

- With floating remote indication contact
- Separate field and house wire termination.
- Tool-free field wire disconnect and test point.
- Isolated field and house wire (4-post equivalent)
- IP20 touch safe when connected.
- 12.5 kA lightning surge current

## Key Commercial Data

|                                      |           |
|--------------------------------------|-----------|
| Packing unit                         | 1 STK     |
| Weight per Piece (excluding packing) | 294.400 g |
| Custom tariff number                 | 85363030  |
| Country of origin                    | Germany   |

## Technical data

### Dimensions

|        |         |
|--------|---------|
| Height | 112 mm  |
| Width  | 17.7 mm |

### Ambient conditions

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

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## Technical data

### Ambient conditions

|  |                   |
|--|-------------------|
| Altitude                                 | max. 3000 m       |
| Permissible humidity (operation)         | 5 % ... 95 %      |
| Permissible humidity (storage/transport) | 5 % ... 95 %      |
| Shock (operation)                        | 10g               |
| Vibration (operation)                    | 2g (0 ... 200 Hz) |

### General

|  |   |
|--|---|
| Housing material                       | PA  |
| Flammability rating according to UL 94 | V0  |
| Color                                  | black   |
| Total surge current (8/20) $\mu$ s     | 50 kA   |
| Total surge current (10/350) $\mu$ s   | 15 kA   |
| Mounting type                          | DIN rail mounting with additional retaining screw |
| Type                                   | DIN rail module, two-section, divisible           |
| Surge protection fault message         | Optical, remote indicator contact                 |
|  | Optical, remote indicator contact                 |
| Direction of action                    | L-L / L-PE  |

### Protective circuit

|  |                           |
|--|---------------------------|
| IEC test classification                          | I / II                    |
|  | I / II                    |
|  | T1 / T2                   |
|  | T1 / T2                   |
| EN type  | T1 / T2                   |
|  | T1 / T2                   |
| Maximum continuous operating voltage $U_C$       | 75 V DC                   |
| Maximum continuous operating voltage $U_C$ (L-N) | 75 V DC                   |
| Rated load current $I_L$                         | 55 A (with 6 AWG)         |
| Max. discharge current $I_{max}$ (8/20) $\mu$ s  | 50 kA                     |
| Nominal discharge current $I_n$ (8/20) $\mu$ s   | 12.5 kA                   |
| Voltage protection level $U_p$                   | $\leq 0.7$ kV             |
| Residual voltage                                 | $\leq 0.6$ kV (at 5 kA)   |
|  | $\leq 0.65$ kV (at 10 kA) |
|  | $\leq 0.7$ kV             |
|  | $\leq 0.55$ kV (at 3 kA)  |
| Max. backup fuse with branch wiring              | 160 A                     |
|  | 160 A                     |

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## Technical data

### Protective circuit

|  |       |
|--|-------|
| Short-circuit resistance $I_p$ with max. backup fuse (effective) | 500 A |
|  | 500 A |

### Connection, protective circuit

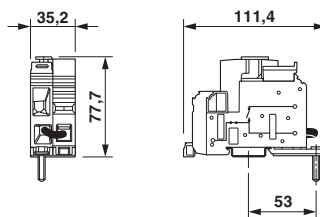
|                             |               |
|-----------------------------|---------------|
| Conductor cross section AWG | 15 ... 2 (UL) |
|                             | 20 ... 6      |
|                             | 12 ... 4      |

### Remote indication contact

|  |  |
|--|--|
| Connection name                        | Remote fault indicator contact                         |
| Switching function                     | PDT, 1-pos.  |
| Connection method                      | Screw connection                                       |
| Screw thread                           | M2   |
| Tightening torque                      | 0.25 Nm  |
|  | 2 lb <sub>f</sub> -in. ... 4 lb <sub>f</sub> -in. (UL) |
| Stripping length                       | 7 mm   |
| Conductor cross section flexible min.  | 0.14 mm <sup>2</sup>                                   |
| Conductor cross section flexible 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 min.       | 28   |
| Conductor cross section AWG max.       | 16   |
| Maximum operating voltage $U_{max}$ AC | 250 V AC   |
| Max. operating current $I_{max}$       | 1.5 A AC (250 V AC)                                    |
|  | 1.5 A DC (30 V DC)                                     |

## Drawings

Dimensional drawing



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## Classifications

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 5.1 | 27130801 |
| eCl@ss 6.0 | 27130802 |
| eCl@ss 8.0 | 27130802 |
| eCl@ss 9.0 | 27130802 |

### ETIM

|          |          |
|----------|----------|
| ETIM 4.0 | EC002497 |
| ETIM 5.0 | EC000381 |

## Accessories

### Accessories

#### Bridge

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- 2 - 2809209



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

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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### Accessories

Plug-in bridge - FBS 2-18 - 2801068



Plug-in bridge for cross-connections in the VAL-MS BE-AR terminal center, 2-pos., color: Red

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### Insertion bridge

Insertion bridge - EB 56-18 - 3009299



Insertion bridge, Pitch: 18 mm, Number of positions: 56, Color: gray

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### Screwdriver tools

Screwdriver - SZS 0,8X4,0 VDE - 1212508



Screwdriver, slot-headed, VDE insulated, size: 0.8 x 4.0 x 100 mm, 2-component grip, with non-slip grip

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Screwdriver - SZS 1,0X6,5 VDE - 1205079



Screwdriver, slot-headed, VDE insulated, size: 1.0 x 6.5 x 150 mm, 2-component grip, with non-slip grip

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## Lightning/surge arrester type 1/2 - VAL-MS+TE-AR-T1/T2 75/P-FM - 2906321

### Accessories

Screwdriver - SZS 0,4X2,5 VDE - 1205037



Screwdriver, slot-headed, VDE insulated, size: 0.4 x 2.5 x 80 mm, 2-component grip, with non-slip grip