

## Surge protection base element - VAL-MS BE-AR - 2801065

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Base element for Type 1 and Type 2 surge arresters of the VAL-MS series, with separate field and house termination, tool-free isolation disconnect, and test point. Design: 1-channel, bridgeable.



### Why buy this product

- Versions with and without floating remote indication contact
- Separate field and house wire termination.
- Tool-free field wire disconnect and test point.
- IP20 touch safe when connected.
- Coding when protective plug is inserted for the first time
- Tested for railway applications

RoHS

### Key Commercial Data

Packing unit	1 STK
GTIN	
GTIN	4046356726788
Weight per Piece (excluding packing)	141.120 g
Custom tariff number	85363010
Country of origin	United States

### Technical data

#### Dimensions

Height	153 mm
Width	17.7 mm
Depth	75 mm

#### Ambient conditions

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## Technical data

### Ambient conditions

Degree of protection	IP20
	IP20 (when disconnect closed)
Ambient temperature (operation)	-40 °C ... 80 °C
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	100 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
Number of positions	1

### Protective circuit

Nominal frequency $f_N$	50 Hz (60 Hz)
Rated load current $I_L$	55 A (with 6 AWG)
Recommended backup fuse maximum	125 A (gL / gG)
Short-circuit resistance $I_p$ with max. backup fuse (effective)	25 kA

### Connection, protective circuit

Connection method IN	Screw terminal blocks
Connection method OUT	Screw terminal blocks
Screw thread	M5
Tightening torque	4.5 Nm
Stripping length	16 mm
Conductor cross section flexible min.	1.5 mm <sup>2</sup>
Conductor cross section flexible 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 min.	15
Conductor cross section AWG max.	2
Conductor cross section AWG	10 ... 2 (UL)

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## Technical data

### NEMA / UL data

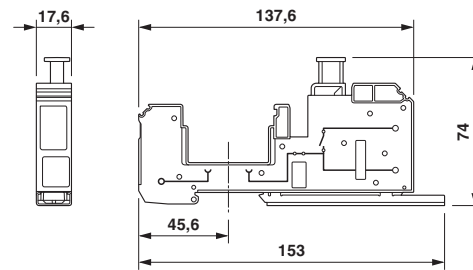
Maximum Surge Current per Phase	100 kA
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## Drawings

Circuit diagram



Dimensional drawing



## 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	27130802
eCl@ss 7.0	27130802
eCl@ss 8.0	27130803
eCl@ss 9.0	27130803

### ETIM

ETIM 3.0	EC000941
ETIM 4.0	EC001675
ETIM 5.0	EC000472
ETIM 6.0	EC000472

### UNSPSC

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

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### Accessories

#### Accessories

#### Bridge

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- 2 - 2809209



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

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### Accessories

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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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