

## Type 2 surge protection device - VAL-MS+TE-AR 350 VF/P-FM - 2906320

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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.
- ✓ Zero leakage current

RoHS

### Key Commercial Data

Packing unit	1 STK
Weight per Piece (excluding packing)	230.000 g
Custom tariff number	85363030
Country of origin	Germany

### Technical data

#### Dimensions

Height	113 mm
Width	17.7 mm
Depth	78 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	15 kA
Total surge current (10/350) $\mu$ s	3 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	1L-N/PE

### Protective circuit

IEC test classification	II
	T2
EN type	T2
	T2
Maximum continuous operating voltage $U_C$	350 V AC
Nominal frequency $f_N$	50 Hz (60 Hz)
Rated load current $I_L$	55 A (with 6 AWG)
Max. discharge current $I_{max}$ (8/20) $\mu$ s	20 kA
Nominal discharge current $I_n$ (8/20) $\mu$ s	10 kA
Voltage protection level $U_p$	$\leq 1.2$ kV
Residual voltage	$\leq 1$ kV (at 5 kA)
Max. backup fuse with branch wiring	125 A (gG)
	125 A (gG)
Short-circuit resistance $I_p$ with max. backup fuse (effective)	25 kA
	25 kA

### Connection, protective circuit

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

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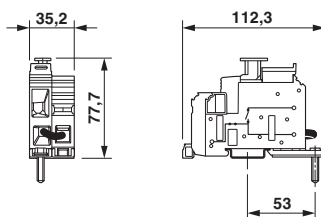
### Technical data

#### 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 <sub>max.</sub> AC	250 V AC
Max. operating current I <sub>max</sub>	1.5 A AC (250 V AC)
	1.5 A DC (30 V DC)

### Drawings

Dimensional drawing



### Classifications

#### eCl@ss

eCl@ss 5.1	27130801
eCl@ss 6.0	27130802
eCl@ss 8.0	27130805
eCl@ss 9.0	27130805

#### ETIM

ETIM 4.0	EC002497
ETIM 5.0	EC000941

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### Accessories

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#### 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.

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

#### Insertion bridge

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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

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