

VAL-MS+TE-AR 75 VF/P-FM - Type 2 surge protection device



2906318

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Assembly with base element for type 2 arresters of the VALVETRAB MS product range and TE-AR disconnect terminal block, with remote indication contact and field wire isolation. Version for 1-mode protection of field signals in railroad applications.

Your advantages

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

Commercial data

Item number	2906318
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	CL18
Product key	CL1151
GTIN	4055626064185
Weight per piece (including packing)	222.222 g
Weight per piece (excluding packing)	222.222 g
Customs tariff number	85363030
Country of origin	DE

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Technical data

Product properties

Product type	Base element
Product family	VALVETRAB MS
IEC test classification	II
	T2
EN type	T2
	T2
Type	DIN rail module, two-section, divisible
Number of positions	1
Surge protection fault message	Optical, remote indicator contact

Electrical properties

Nominal frequency f_N	50 Hz (60 Hz)
Nominal voltage U_N	60 V DC (5 V ... 48 V AC)
Nominal current I_N	76 A

Indicator/remote signaling

Connection name	Remote fault indicator contact
Switching function	Changeover contact, 1-pos.
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)
	1.5 A DC (30 V DC)
Operating voltage	5 V AC ... 250 V AC
	125 V AC (UL)
	30 V DC
Operating current	5 mA AC ... 1.5 A
	1 A (UL)
	1 A

Connection data

House (L0)

Connection method	Screw terminal block
Tightening torque	3 Nm ... 4.5 Nm (Ground)
	1.5 Nm ... 1.8 Nm (House)
	2.5 Nm ... 3 Nm (Field)
Conductor cross section flexible	1.5 mm ² ... 35 mm ² (16 mm strip length)
	0.5 mm ² ... 15 mm ² (10 mm strip length)
	1.5 mm ² ... 25 mm ² (14 mm strip length)
Conductor cross section rigid	1.5 mm ² ... 35 mm ² (16 mm strip length)
	0.5 mm ² ... 15 mm ² (10 mm strip length)

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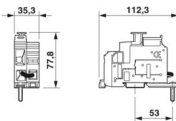
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Conductor cross section AWG	1.5 mm ² ... 25 mm ² (14 mm strip length)
	15 ... 2 (16 mm strip length)
	20 ... 6 (10 mm strip length)
	12 ... 4 (14 mm strip length)

Remote fault indicator contact

Connection method	Screw connection
Screw thread	M2
Tightening torque, min	0.25 Nm
Tightening torque	2 lb _f -in. ... 4 lb _f -in. (UL)
Stripping length	7 mm
Conductor cross section flexible min.	0.14 mm ²
Conductor cross section flexible max.	1.5 mm ²
Conductor cross section, rigid min.	0.14 mm ²
Conductor cross section, rigid max.	1.5 mm ²

Dimensions

Dimensional drawing	
Width	17.7 mm
Height	113 mm
Depth	78 mm

Material specifications

Color	black (RAL 9005)
Flammability rating according to UL 94	V0
Housing material	PBT/PA

Protective circuit

Direction of action	1L-N/PE
Nominal frequency f_N	50 Hz (60 Hz)
Maximum continuous voltage U_C	100 V DC
	75 V AC
Rated load current I_L	55 A (Serial through wiring at 16 mm ²)
Nominal discharge current I_n (8/20) μ s	10 kA
Maximum discharge current I_{max} (8/20) μ s	20 kA
Short-circuit current rating I_{SCCR}	25 kA (L-PE)
Voltage protection level U_p	≤ 1.4 kV
Response time t_A	≤ 25 ns
Total surge current (10/350) μ s	3 kA
Total surge current (8/20) μ s	25 kA
Max. backup fuse with branch wiring	63 A (gG)

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	63 A (gG)
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Environmental and real-life conditions

Ambient conditions	
Degree of protection	IP20 (when disconnect closed)
	IP20
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 Hz ... 200 Hz)

Standards and regulations

Air clearances and creepage distances	
Standards/regulations	EN 60664-1 / EN 61643-1

Mounting

Mounting type	DIN rail mounting with additional retaining screw
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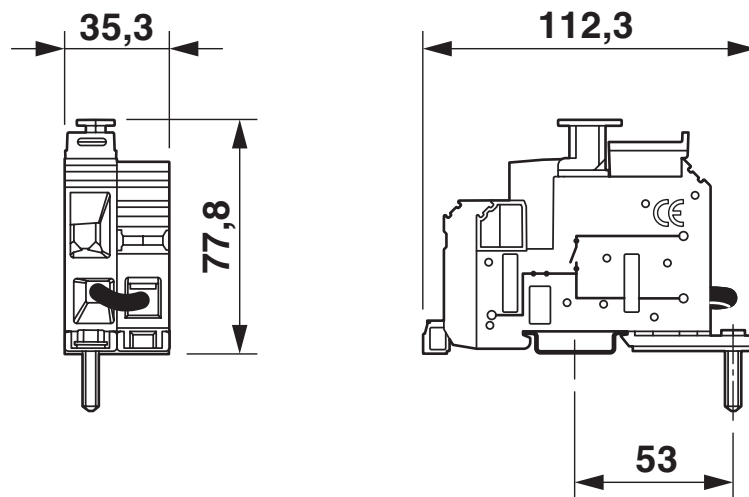


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Drawings

Dimensional drawing



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Classifications

ECLASS

ECLASS-11.0	27130805
ECLASS-13.0	27171292

ETIM

ETIM 9.0	EC002496
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UNSPSC

UNSPSC 21.0	39121620
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Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Not applicable, Not qualified for the European market
China RoHS	
Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)

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