

Type 2 surge protection base element - VAL-MS TE-AR/75X350/3EQP/FM - 2906324

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Assembly with base element for type 2 arresters of the VALVETRAB MS product range, with remote indication contact and field wire disconnect. Version for 3-mode protection of 2-wire signals. Pass through layout separates field and house wires.

Why buy this product

- With floating remote indication contact
- 3-Mode equalizer protection
- Field wire disconnect
- Pass-through for field-to-house isolation

Key Commercial Data

Packing unit	1 STK
Weight per Piece (excluding packing)	1.000 g
Custom tariff number	85363030
Country of origin	Germany

Technical data

Note

Trade restriction	The products are offered exclusively for export outside the EU and the European Economic Area.
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Dimensions

Height	114 mm
Width	89 mm
Depth	78 mm
Horizontal pitch	5 Div.

Ambient conditions

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Ambient conditions

Degree of protection	IP20
	IP20 (Only when all disconnects are closed)
Ambient temperature (operation)	-40 °C ... 80 °C

General

Housing material	PBT / PA
Flammability rating according to UL 94	V0
Color	black
Standards for clearances and creepage distances	EN 60664-1
	EN 61643-1
Mounting type	DIN rail mounting with additional retaining screw
Number of positions	3
Surge protection fault message	Optical, remote indicator contact
Direction of action	(L+)-PE & (L-)-PE & (L+)-(L-)

Protective circuit

IEC test classification	II
	T2
Nominal voltage U_N	5 V AC ... 48 V AC
Maximum continuous operating voltage U_C	60 V
Maximum continuous operating voltage U_C (L-PE)	230 V
	230 V
Rated load current I_L	80 A (Serial through wiring at 16 mm ²)
Residual current I_{PE}	$\leq 5 \mu\text{A}$
Max. discharge current I_{max} (8/20) μs	20 kA
Max. discharge current I_{max} (8/20) μs maximum (L-PE)	20 kA
Nominal discharge current I_n (8/20) μs (L-PE)	10 kA
Voltage protection level U_p (L-PE)	$\leq 1.5 \text{ kV}$
Response time t_A	$\leq 25 \text{ ns}$
Max. backup fuse with branch wiring	200 A (gL / gG)
Max. backup fuse with V-type through wiring	80 A (gL / gG)
Short-circuit resistance I_p with max. backup fuse (effective)	25 kA
	25 kA
Short-circuit current rating I_{SCCR}	10 kA (L-L)

Connection, protective circuit

Connection method	Screw terminal block
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Connection, protective circuit

Connection type IN	Screw terminal blocks
Connection type OUT	Screw terminal blocks
Screw thread	M5
Tightening torque	26.5 lb _F -in. ... 30 lb _F -in. (UL)
Stripping length	16 mm
Conductor cross section flexible min.	0.5 mm ²
Conductor cross section flexible max.	16 mm ²
Conductor cross section solid min.	0.5 mm ²
Conductor cross section solid max.	16 mm ²
Conductor cross section AWG min.	20
Conductor cross section AWG max.	6
Conductor cross section AWG	15 ... 2 (UL)
	20 ... 6
	12 ... 4

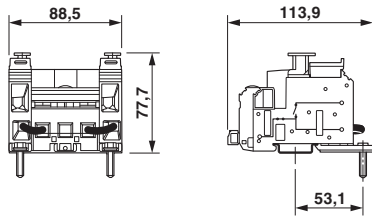
Remote indication contact

Connection name	Remote fault indicator contact
Switching function	PDT, 1-pos.
Connection method	MC 1,5/3
Screw thread	M2
Tightening torque	0.25 Nm
	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 solid min.	0.14 mm ²
Conductor cross section solid max.	1.5 mm ²
Conductor cross section AWG min.	28
Conductor cross section AWG max.	16
Maximum operating voltage U _{max} AC	250 V AC
Maximum operating voltage U _{max} DC	30 V DC
Max. operating current I _{max}	1.5 A AC (250 V AC)

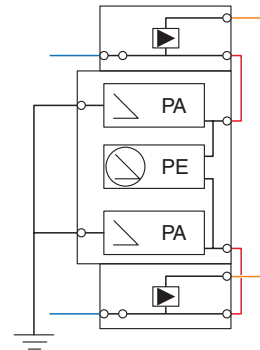
Drawings

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Dimensional drawing



Circuit diagram



House wires shown as blue. Field wires shown as orange.

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

Accessories

Accessories

Bridge

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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Accessories

Wiring bridge - MPB 18/1-57 - 2809238



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

Insertion bridge - EB 56-18 - 3009299



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

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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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

Spare parts

Type 2 surge protection plug - VAL-MS 75 VF ST - 2805318



Surge protection plug type 2 with series connection consisting of varistor and gas-filled spark gap for VAL-MS base element, thermal monitoring, visual fault warning.

Type 2 surge protection plug - VAL-MS 350 VF ST - 2856595



surge protection connector type 2 with series connection consisting of varistor and gas-filled spark gap for VAL-MS base element, thermal monitoring, visual fault warning. Design: 350 V AC