

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

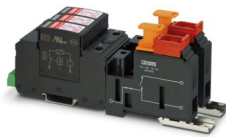


2905684

<https://www.phoenixcontact.com/us/products/2905684>

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Equalizer surge protective device assembly, 3-mode, type 2 arresters for 2-wire signals up to 75 V with field disconnect terminals and form-C field monitor contact



Your advantages

- With floating remote indication contact
- Field wire disconnect
- 3-Mode equalizer protection

Commercial data

Item number	2905684
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	CL18
Product key	CL1151
GTIN	4055626025889
Weight per piece (including packing)	222.222 g
Weight per piece (excluding packing)	222.222 g
Country of origin	DE

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Technical data

Product properties

Product type	Surge protection for NEMA power supply units
Product family	VALVETRAB MS
IEC test classification	II T2
Type	DIN rail module, two-section, divisible and terminal block with disconnect and test point
Number of positions	3
Surge protection fault message	Optical, remote indicator contact

Electrical properties

Nominal voltage U_N	48 V AC/DC 5 V AC ... 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
Maximum operating voltage U_{max} DC	30 V DC
Max. operating current I_{max}	1.5 A AC (250 V AC) 1.5 A DC (125 V AC) 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) 1.5 mm ² ... 35 mm ² (16 mm strip length)

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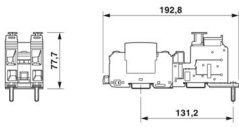
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Conductor cross-section rigid	0.5 mm ² ... 15 mm ² (10 mm strip length)
	1.5 mm ² ... 25 mm ² (14 mm strip length)
Conductor cross-section AWG	15 ... 2 (16 mm strip length)
	20 ... 6 (10 mm strip length)
	12 ... 4 (14 mm strip length)

Remote fault indicator contact

Connection method	MC 1,5/3
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	54 mm
Height	193 mm
Depth	78 mm
Horizontal pitch	3 Div.

Material specifications

Color	black (RAL 9005)
	gray (RAL 7042)
Flammability rating according to UL 94	V0
Housing material	PBT/PA

Protective circuit

Direction of action	(L+)-PE & (L-)-PE & (L+)-(L-)
	(L+)-PE & (L-)-PE & (L+)-(L-)
Nominal voltage U _N	5 V AC ... 48 V AC
Maximum continuous operating voltage U _C	60 V
	60 V
Maximum continuous operating voltage U _C (L-L)	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)

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Protective conductor current I_{PE}	$\leq 5 \mu A$
Nominal discharge current I_n (8/20) μs (L-L)	10 kA
Nominal discharge current I_n (8/20) μs (L-PE)	10 kA
Maximum discharge current I_{max} (8/20) μs (L-L)	20 kA
Maximum discharge current I_{max} (8/20) μs (L-PE)	20 kA
Short-circuit current rating I_{SCCR}	10 kA (L-L)
	25 kA (L-PE)
Voltage protection level U_p (L-L)	≤ 1.4 kV
Voltage protection level U_p (L-PE)	≤ 1.5 kV
Response time t_A	≤ 25 ns
Max. backup fuse with V-type through wiring	80 A (gL/gG)
Max. backup fuse with branch wiring	200 A (gL/gG)

Environmental and real-life conditions

Ambient conditions

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

Standards and regulations

Air clearances and creepage distances

Standards/regulations	EN 60664-1 / EN 61643-1
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Mounting

Mounting type	DIN rail mounting with additional retaining screw
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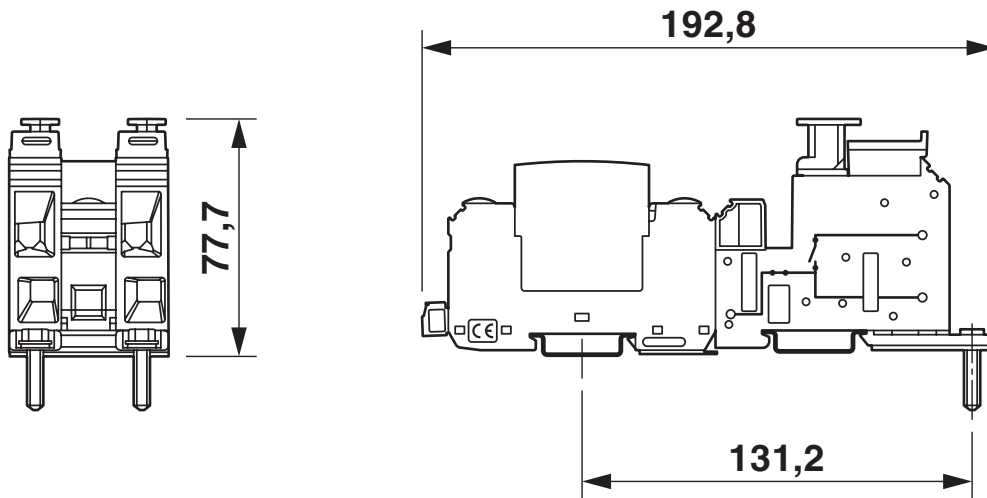
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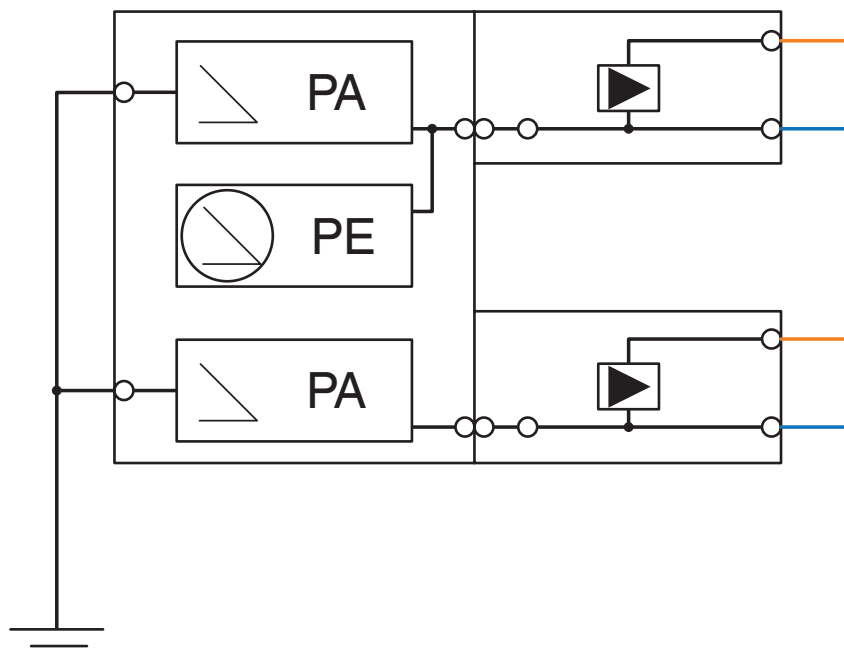
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Drawings

Dimensional drawing



Circuit diagram



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

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Classifications

ECLASS

ECLASS-13.0	27171201
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ETIM

ETIM 9.0	EC000381
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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
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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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