

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 kg
Weight per piece (excluding packing)	222.222 kg
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
Туре	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 <sub>N</sub>	48 V AC/DC	
		5 V AC 48 V AC
	Nominal current I <sub>N</sub>	76 A

#### Indicator/remote signaling

Connection name	Remote fault indicator contact
Switching function	Changeover contact, 1-pos.
Maximum operating voltage U <sub>max.</sub> AC	250 V AC
Maximum operating voltage U <sub>max</sub> DC	30 V DC
Max. operating current I <sub>max</sub>	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 <sup>2</sup> 35 mm <sup>2</sup> (16 mm strip length)
	0.5 mm <sup>2</sup> 15 mm <sup>2</sup> (10 mm strip length)
	1.5 mm <sup>2</sup> 25 mm <sup>2</sup> (14 mm strip length)
	1.5 mm <sup>2</sup> 35 mm <sup>2</sup> (16 mm strip length)



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Conductor cross section rigid	0.5 mm <sup>2</sup> 15 mm <sup>2</sup> (10 mm strip length)
	1.5 mm <sup>2</sup> 25 mm <sup>2</sup> (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 <sub>F</sub> in 4 lb <sub>F</sub> in. (UL)
Stripping length	7 mm
Conductor cross section flexible min.	0.14 mm²
Conductor cross section flexible max.	1.5 mm²
Conductor cross section, rigid min.	0.14 mm²
Conductor cross section, rigid max.	1.5 mm <sup>2</sup>

#### **Dimensions**

Dimensional drawing	192.8
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 <sub>N</sub>	5 V AC 48 V AC
Maximum continuous voltage U <sub>C</sub>	60 V
	60 V
Maximum continuous operating voltage $U_C$ (L-L)	60 V
Maximum continuous operating voltage $U_{\mathbb{C}}$ (L-PE)	230 V
	230 V
Rated load current I <sub>L</sub>	80 A (Serial through wiring at 16 mm²)



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Residual current I <sub>PE</sub>	≤ 5 µA
Nominal discharge current I <sub>n</sub> (8/20) µs (L-L)	10 kA
Nominal discharge current I <sub>n</sub> (8/20) µs (L-PE)	10 kA
Maximum discharge current I <sub>max</sub> (8/20) μs (L-L)	20 kA
Maximum discharge current I <sub>max</sub> (8/20) μs (L-PE)	20 kA
Short-circuit current rating I <sub>SCCR</sub>	10 kA (L-L)
	25 kA (L-PE)
Voltage protection level U <sub>p</sub> (L-L)	≤ 1.4 kV
Voltage protection level U <sub>p</sub> (L-PE)	≤ 1.5 kV
Response time t <sub>A</sub>	≤ 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

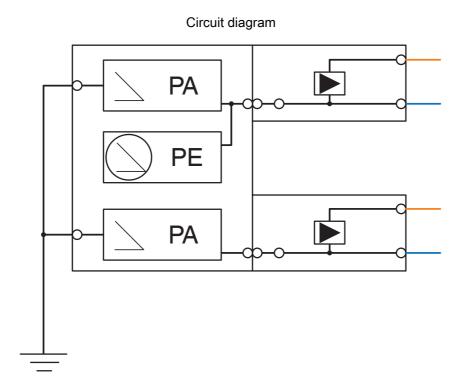
Mounting type	DIN rail mounting with additional retaining screw



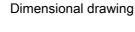
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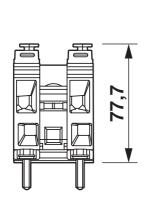
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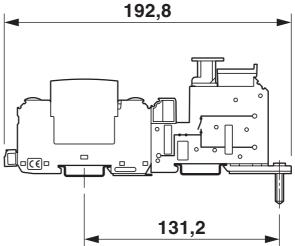
### Drawings



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









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### Classifications

#### **ECLASS**

	ECLASS-11.0	27130802		
	ECLASS-13.0	27171201		
ETIM				
	ETIM			
	ETIM 9.0	EC000381		
UNSPSC				
	UNSPSC 21.0	39121620		



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### Environmental product compliance

EU F	RoHS
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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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