

2905683

https://www.phoenixcontact.com/us/products/2905683

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.

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



# Your advantages

- · Versions with and without floating remote indication contact
- · Field wire disconnect
- · 3-Mode equalizer protection

#### Commercial data

Item number	2905683
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	CL18
Product key	CL1151
GTIN	4055626025872
Weight per piece (including packing)	222.222 kg
Weight per piece (excluding packing)	222.222 kg
Country of origin	DE



2905683

https://www.phoenixcontact.com/us/products/2905683

# Technical data

### Product properties

Product type	Surge arrester
Product family	VALVETRAB MS
IEC test classification	II
	T2
EN type	T2
	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 frequency f <sub>N</sub>	50 Hz (60 Hz)
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)

## 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 mm² 25 mm² (14 mm strip length)
Conductor cross section rigid	1.5 mm² 35 mm² (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)
Conductor cross section AWG	15 2 (16 mm strip length)
	20 6 (10 mm strip length)
	12 4 (14 mm strip length)



2905683

https://www.phoenixcontact.com/us/products/2905683

#### 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 mm²

#### **Dimensions**

Dimensional drawing	192.8
Width	53.4 mm
Height	184 mm
Depth	78 mm

### Material specifications

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

#### Protective circuit

(L+)-PE & (L-)-PE & (L+)-(L-)
(L+)-PE & (L-)-PE & (L+)-(L-)
5 V AC 48 V AC
50 Hz (60 Hz)
60 V
60 V
60 V
230 V
230 V
80 A (Serial through wiring at 16 mm²)
80 A (Serial through wiring at 16 mm²)
≤ 5 µA
10 kA
10 kA
20 kA
20 kA



2905683

https://www.phoenixcontact.com/us/products/2905683

Short-circuit current rating I <sub>SCCR</sub>	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 <sub>A</sub>	≤ 25 ns
Max. backup fuse with V-type through wiring	200 A (gL/gG)
	80 A (gL/gG)
Max. backup fuse with branch wiring	200 A (gL/gG)
	200 A (gL/gG)

### Environmental and real-life conditions

#### Ambient conditions

Degree of protection	IP20
	IP20
Ambient temperature (operation)	-40 °C 80 °C
Altitude	max. 3000 m
Permissible humidity (operation)	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
--	---------------	---

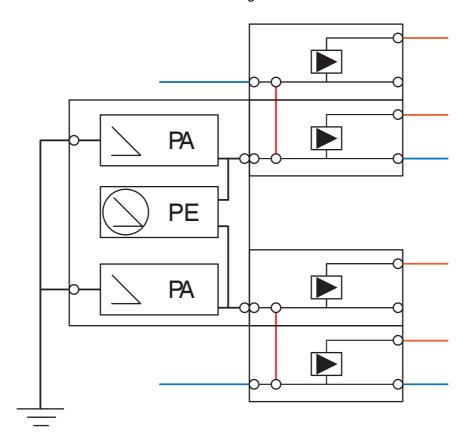


2905683

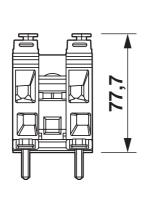
https://www.phoenixcontact.com/us/products/2905683

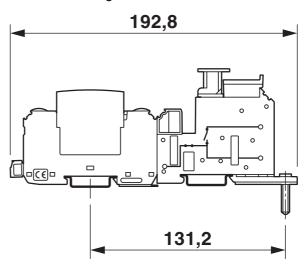
# Drawings

### Circuit diagram



### Dimensional drawing





FM version shown



2905683

https://www.phoenixcontact.com/us/products/2905683

# Classifications

#### **ECLASS**

	ECLASS-11.0	27130802
	ECLASS-13.0	27171201
UNSPSC		
	UNSPSC 21.0	39121620



2905683

https://www.phoenixcontact.com/us/products/2905683

# Environmental product compliance

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)

Phoenix Contact 2024 © - all rights reserved https://www.phoenixcontact.com

Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com