

Surge Protection Barrier

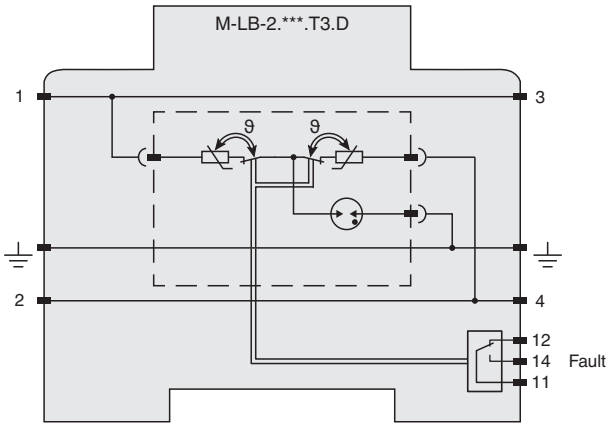
M-LB-2.150.T3.D

- Surge protection for 2 supply lines
- Type 3 acc. to EN 61643-11
- Nominal voltage 120 V AC
- Pre-wired unit
- Operating state and fault indication of every protected line
- Fault indication output
- DIN rail mountable

Function

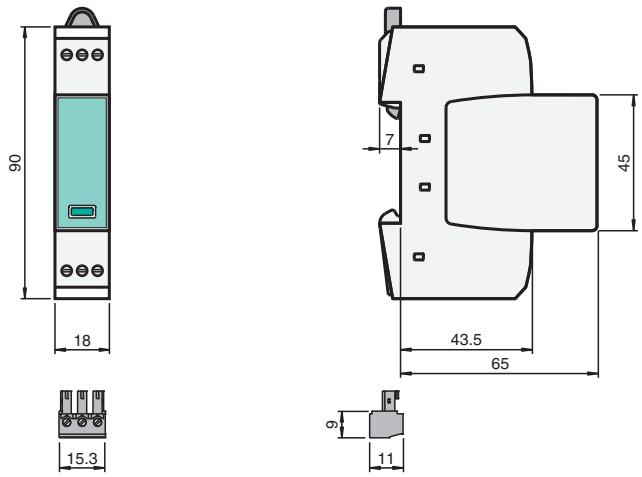
This device is a modular surge protection barrier (type 3 acc. to EN 61643-11) with error message output (floating changeover contact).
The complete device consists of a base module and plug-in protection modules and is ready for installation.
The base part offers multifunctional terminals for connection of conductors and busbars.
Every protection module is locked in the base module and can be changed without tools via release buttons.

Wiring Diagram



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Dimensions



Technical Data

General specifications		
Device type		Type 3 acc. to EN 61643-11 Class III acc. to IEC 61643-11
Number of protected supply lines		2
Suitable components		protection module M-LB-2.150.T3.M
Electrical specifications		
Nominal voltage	U_N	120 V AC, 50 ... 60 Hz
Maximum continuous operating voltage	U_c	150 V AC, 50 ... 60 Hz 150 V DC
Nominal load current	I_L	25 A
Nominal discharge current (8/20 µs)	I_n	2 kA
Max. surge current (8/20 µs)	I_{max}	4 kA
Voltage protection level	U_p	max. 640 V (L-N) max. 800 V (L/N-PE)
Reaction time	t_A	max. 25 ns (L-N) max. 100 ns (L/N-PE)
Short-circuit-proof		6 kA $_{eff}$ at max. mains-side overcurrent protection
Overcurrent protection		max. 25 A gL/gG (B 25 A) , mains-side
Fault indication output		
Connection		terminals 11, 12, 14
Output		volt-free change-over contact
Switch power		AC: 250 V / 0.5 A DC: 250 V/0.1 A; 125 V/0.2 A; 75 V/0.5 A; 24 V/0.5 A
Indicators/settings		
Display elements		status display operating state (green) fault indication (red)
Directive conformity		
Low voltage		
Directive 2014/35/EU		EN 61643-11:2012
Conformity		
Degree of protection		IEC 60529:2013
Shock resistance		EN 60068-2:2010
Vibration resistance		EN 60068-2:2010
Operating conditions		
Installation conditions		
Mounting location		indoor
Ambient conditions		
Ambient temperature		-40 ... 80 °C (-40 ... 176 °F)

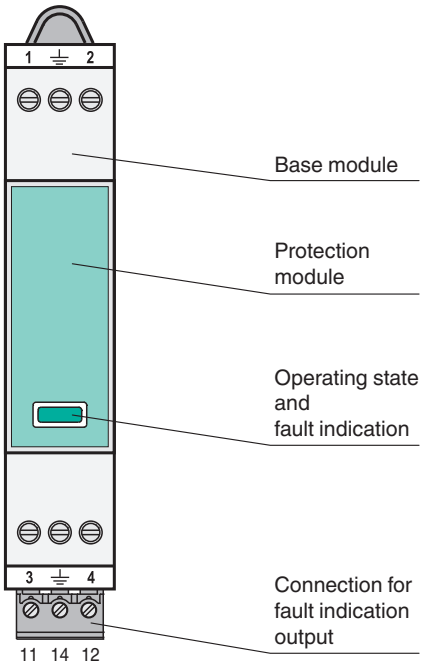
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Technical Data

Relative humidity		5 ... 95 %
Mechanical specifications		
Degree of protection		IP20
Core cross section		- min. 0.5 mm² solid/flexible - max. 4 mm² stranded/2.5 mm² flexible
Material		
Housing		thermoplastic, color grey , UL 94 V-0
Mass		approx. 120 g
Dimensions		18 x 90 x 72 mm (0.7 x 3.6 x 2.8 inch) (W x H x D) , 1 TE acc. to DIN 43880
Mounting		on 35 mm DIN mounting rail acc. to EN 60715:2001
Data for application in connection with hazardous areas		
Certificate		TÜV 22 ATEX 8932 X
Marking		⟨Ex⟩ II 3G Ex ec IIC T4 Gc
Directive conformity		
Directive 2014/34/EU		EN IEC 60079-0:2018 , EN IEC 60079-7:2015+A1:2018
International approvals		
UL approval		E346845
IECEx approval		
IECEx certificate		IECEx TUR 22.0082X
IECEx marking		Ex ec IIC T4 Gc
General information		
Supplementary information		Observe the certificates, declarations of conformity, instruction manuals, and manuals where applicable. For information see www.pepperl-fuchs.com.

Assembly

Front view



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