



Surge Protection Barrier

M-LB-2.255.T3.D

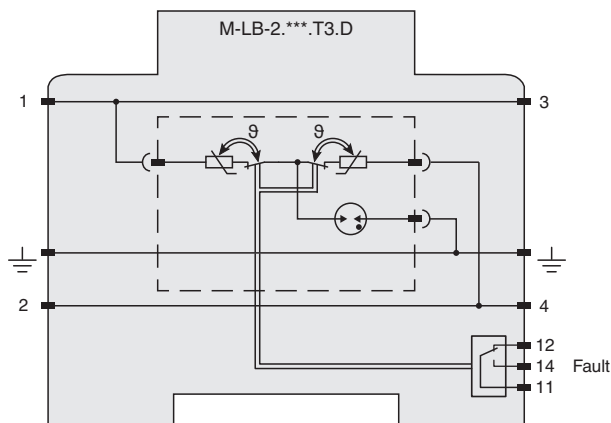
- Surge protection for 2 supply lines
- Type 3 acc. to EN 61643-11
- Nominal voltage 230 V AC
- Pre-wired unit
- Operating state and fault indication of every protected line
- Fault indication output
- DIN rail mountable



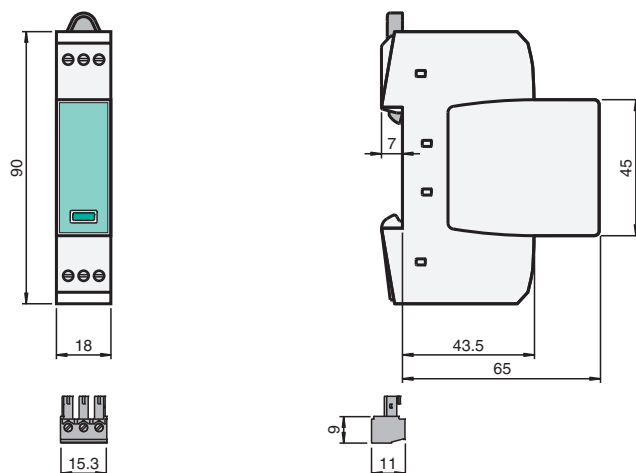
Function

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.

Connection



Dimensions



Technical Data

General specifications

Device type	type 3 acc. to EN 61643-11:2013 class III acc. to IEC 61643-1:2011	
Number of protected supply lines		2
Suitable components	protection module M-LB-2.255.T3.M	

Electrical specifications

Nominal voltage		230 V AC, 50 ... 60 Hz
Maximum continuous operating voltage	U_c	255 V AC, 50 ... 60 Hz 255 V DC
Temporary over-voltage	U_t	335 V/5 s (TOV withstand) (L-N) 400 V/5 s (TOV withstand) (L/N-PE) 1200 V+ U_{cs} /200 ms (TOV safe failure) (L+N-PE) 5 s (TOV withstand)
Nominal load current	I_L	25 A
Nominal discharge current (8/20 μ s)	I_n	3 kA
Max. surge current (8/20 μ s)	I_{max}	5 kA
Voltage protection level	U_p	max. 1.25 kV (L-N) max. 1.5 kV (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)
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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

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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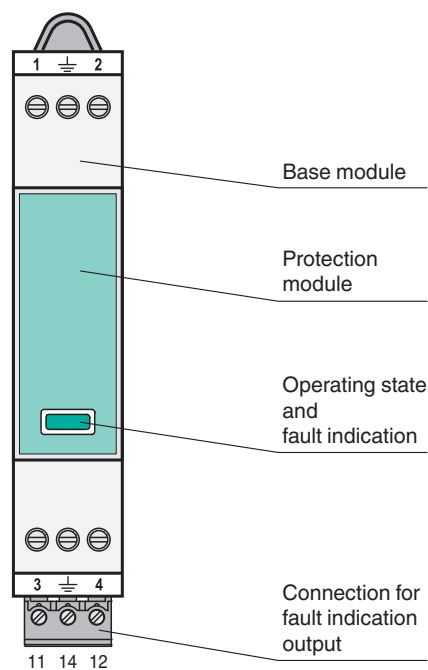
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Technical Data

Ambient conditions		
Ambient temperature		-40 ... 80 °C (-40 ... 176 °F)
Relative humidity		5 ... 95 %
Mechanical specifications		
Degree of protection		IP20
Core cross section		- min. 0.5 mm ² solid/flexible - max. 4 mm ² stranded/2.5 mm ² 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
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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