



Surge Protection Barrier

M-LB-3.150TNC.D

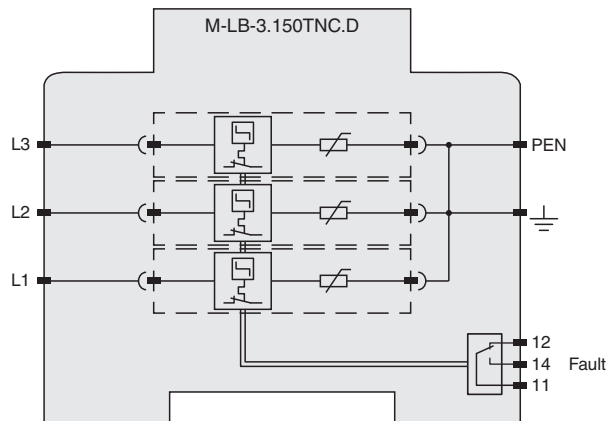
- Surge protection for 3 supply lines
- Type 2 acc. to EN 61643-11
- For TN-C systems (120 V AC/240 V AC)
- Pre-wired unit
- Operating state and fault indication of every protected line
- Fault indication output
- DIN rail mountable



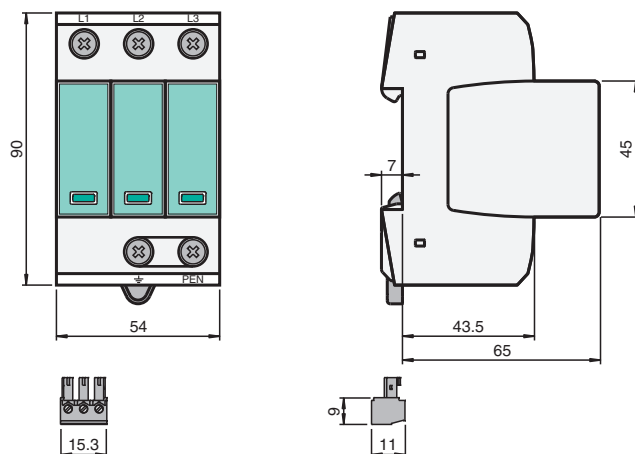
Function

This device is a modular surge protection barrier (type 2 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. Every protection module is locked in the base module and can be changed without tools via release buttons.

Connection



Dimensions



Technical Data

Search characteristics

Network configuration	TN-C
-----------------------	------

General specifications

Device type	type 2 acc. to EN 61643-11 class II acc. to IEC 61643-1
Number of protected supply lines	3
Suitable components	protection module M-LB-1.150.M

Electrical specifications

Nominal voltage	120 V AC, 50 ... 60 Hz 240 V AC, 50 ... 60 Hz
Maximum continuous operating voltage	U_c 150 V AC, 50 ... 60 Hz
Temporary over-voltage	U_t 175 V / 5 s (TOV withstand)
Nominal discharge current (8/20 μ s)	I_n 15 kA
Max. surge current (8/20 μ s)	I_{max} 40 kA
Voltage protection level	U_p max. 0.7 kV max. 0.55 kV at 5 kA
Reaction time	t_A max. 25 ns
Short-circuit-proof	50 kA _{eff}
Overcurrent protection	max. 125 A gG , 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
Shock resistance	EN 60068-2
Vibration resistance	EN 60068-2

Ambient conditions

Ambient temperature	-40 ... 80 °C (-40 ... 176 °F)
Relative humidity	5 ... 95 %

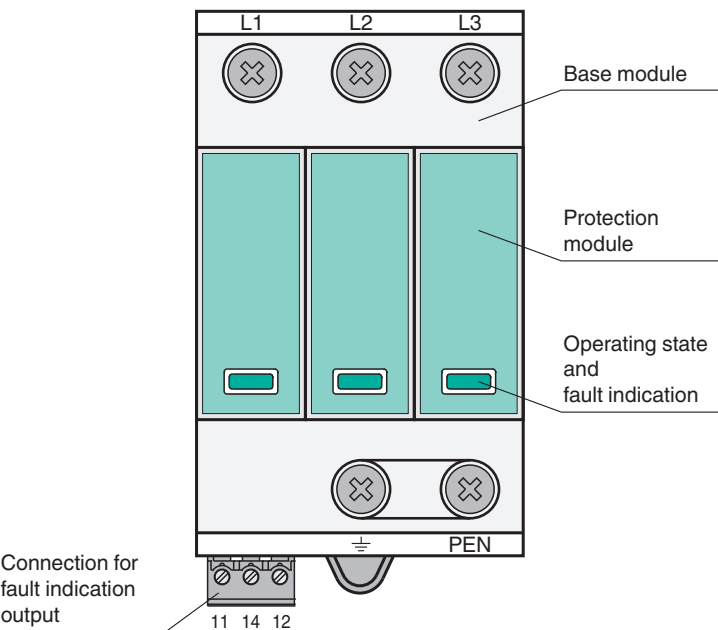
Mechanical specifications

Technical Data

Degree of protection	IP20	
Core cross section		- min. 1.5 mm ² solid/flexible - max. 35 mm ² stranded/25 mm ² flexible - max. 1.5 mm ² solid/flexible (for remote signalling contact)
Material		
Housing		thermoplastic, color grey , UL 94 V-0
Mass		approx. 360 g
Dimensions		54 x 90 x 72 mm (2.1 x 3.6 x 2.8 inch) (W x H x D) , 3 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



Accessories

	M-LB-1.150.M	Protection Module for Surge Protection Barrier
--	---------------------	--

Release date: 2022-01-13 Date of issue: 2022-01-13 Filename: 235910_eng.pdf