



Surge Protection Barrier

M-LB-4.275TT.D

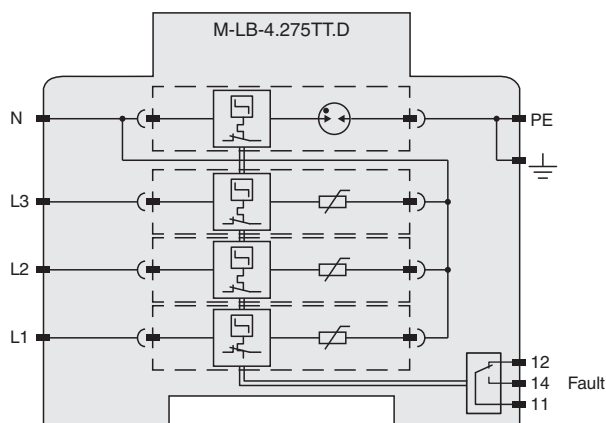
- Surge protection for 4 supply lines
- Type 2 acc. to EN 61643-11
- For TT and TN-S systems (230 V AC/400 V AC)
- Pre-wired unit
- Operating state and fault indication of every protected line
- Fault indication output
- DIN rail mountable



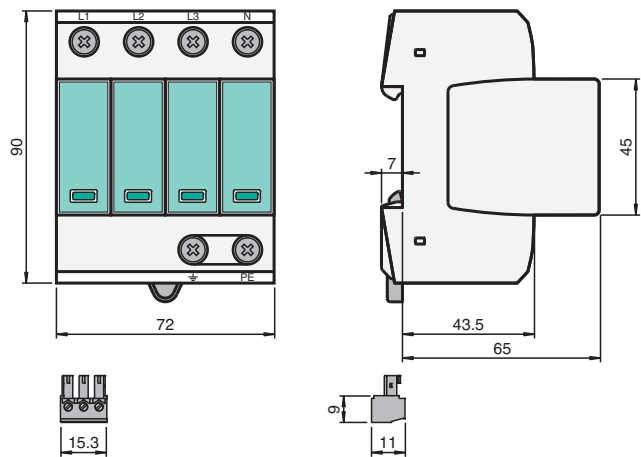
Function

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



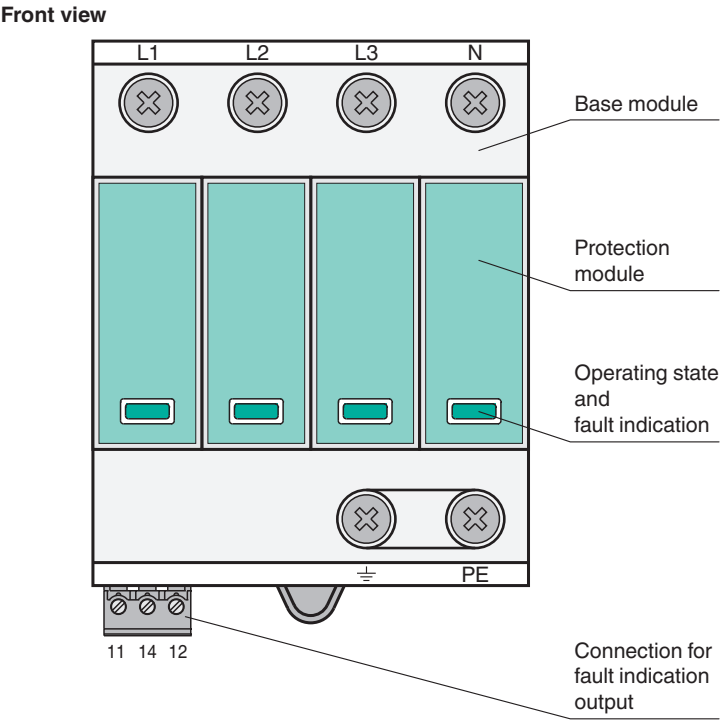
Technical Data

Search characteristics		
Network configuration		TT
General specifications		
Device type		type 2 acc. to EN 61643-11 class II acc. to IEC 61643-1
Number of protected supply lines		4
Suitable components		protection module M-LB-1.275.M protection module M-LB-1.NPE.M
Electrical specifications		
Nominal voltage		230 V AC, 50 ... 60 Hz 400 V AC, 50 ... 60 Hz
Maximum continuous operating voltage	U _c	275 V AC, 50 ... 60 Hz (L-N) 255 V AC, 50 ... 60 Hz (N-PE)
Temporary over-voltage	U _t	335 V/5 s (TOV withstand) (L-N) 1200 V/200 ms (TOV withstand) (N-PE)
Nominal discharge current (8/20 μs)	I _n	20 kA
Max. surge current (8/20 μs)	I _{max}	40 kA
Total discharge current (8/20 μs)	I _{total}	12 kA (N-PE)
Voltage protection level	U _p	max. 1.25 kV (L-N) max. 1 kV at 5 kA (L-N) ≤ 1.5 kV (N-PE)
Reaction time	t _A	max. 25 ns (L-N) max. 100 ns (N-PE)
Follow current extinguishing capability	I _{fi}	100 A _{eff} (N-PE)
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

Technical Data

Vibration resistance	EN 60068-2
Ambient conditions	
Ambient temperature	-40 ... 80 °C (-40 ... 176 °F)
Relative humidity	5 ... 95 %
Mechanical specifications	
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. 480 g
Dimensions	72 x 90 x 72 mm (2.8 x 3.6 x 2.8 inch) (W x H x D) , 4 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



Accessories

	M-LB-1.NPE.M	Protection Module for Surge Protection Barrier
	M-LB-1.275.M	Protection Module for Surge Protection Barrier

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