

Устройства для защиты линий электропередач

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Surge Protection Barrier

M-LB-2.255.T3.D

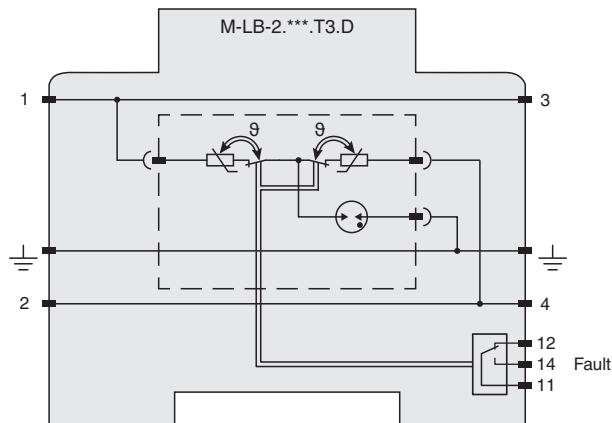
- Surge protection for 2 supply lines
- Type 3 acc. to EN 61643-11
- Nominal voltage 230 V AC
- Pre-wired unit
- Operating state and fault indication of every protected line
- Fault indication output
- DIN rail mountable



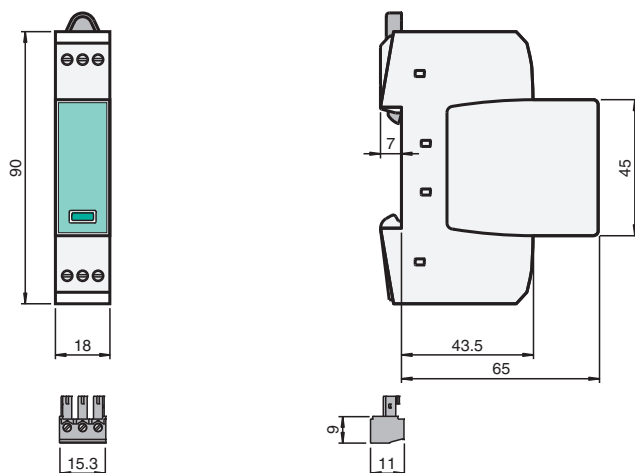
Function

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

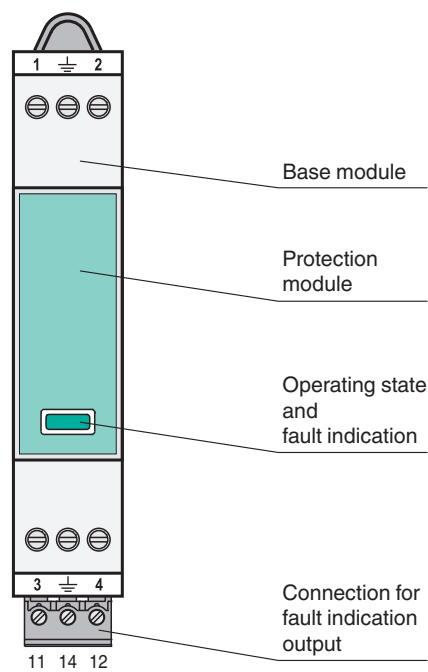
Installation conditions		
Mounting location		indoor

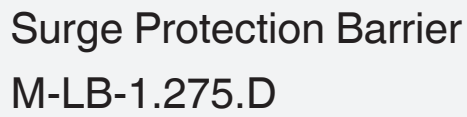
Technical Data

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.

Assembly

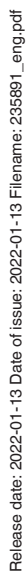
Front view



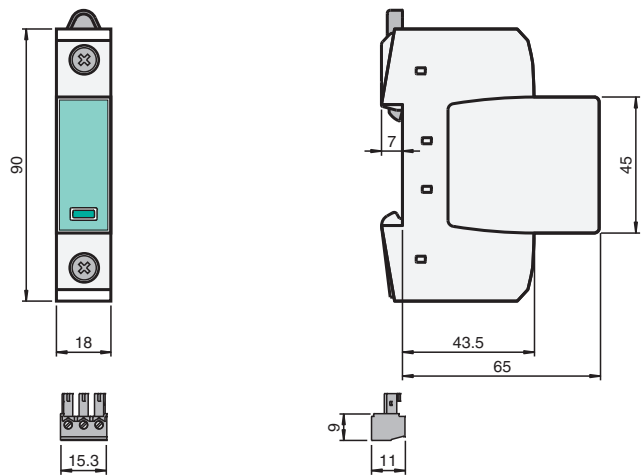


- CE

Connection



Dimensions



Technical Data

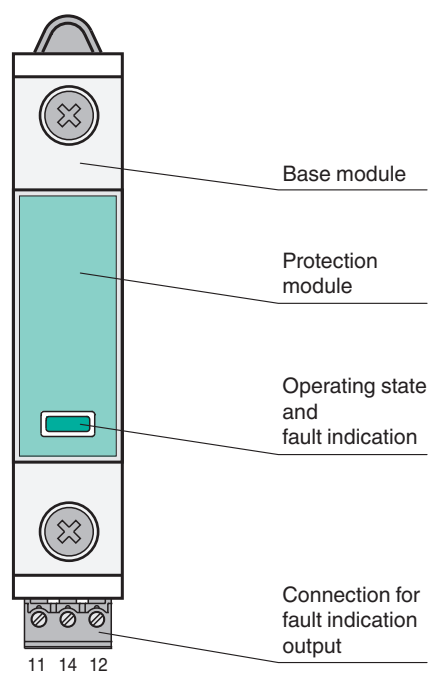
General specifications		
Device type		type 2 acc. to EN 61643-11 class II acc. to IEC 61643-1
Number of protected supply lines		1
Suitable components		protection module M-LB-1.275.M
Electrical specifications		
Nominal voltage		230 V AC, 50 ... 60 Hz
Maximum continuous operating voltage		U _c 275 V AC, 50 ... 60 Hz 350 V DC
Temporary over-voltage		U _t 335 V / 5 s (TOV withstand)
Nominal discharge current (8/20 μs)		I _n 20 kA
Max. surge current (8/20 μs)		I _{max} 40 kA
Voltage protection level		U _p max. 1.25 kV max. 1 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		
Degree of protection		IP20

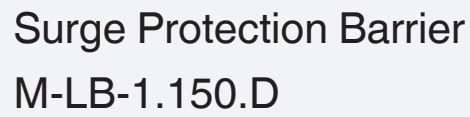
Technical Data

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. 240 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.

Assembly

Front view

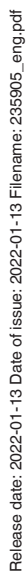




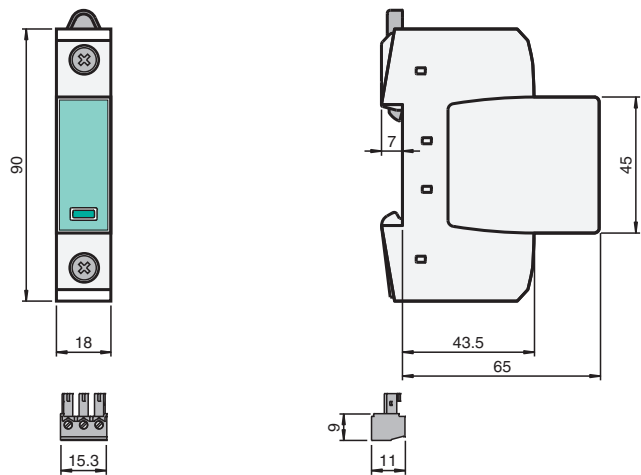
- Surge protection for 1 supply line
- Type 2 acc. to EN 61643-11
- For 120 V
- Pre-wired unit
- Operating state and fault indication of every protected line
- Fault indication output
- DIN rail mountable



Connection



Dimensions



Technical Data

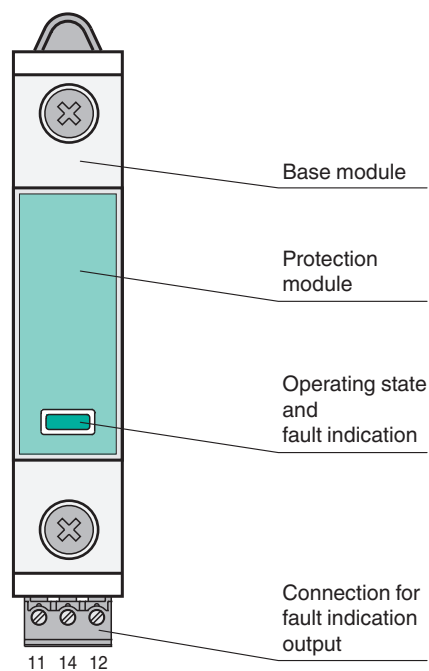
General specifications		
Device type		type 2 acc. to EN 61643-11 class II acc. to IEC 61643-1
Number of protected supply lines		1
Suitable components		protection module M-LB-1.150.M
Electrical specifications		
Nominal voltage		120 V AC, 50 ... 60 Hz
Maximum continuous operating voltage		U _c 150 V AC, 50 ... 60 Hz 200 V DC
Temporary over-voltage		U _t 175 V / 5 s (TOV withstand)
Nominal discharge current (8/20 μs)		I _n 15 kA
Max. surge current (8/20 μs)		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		
Degree of protection		IP20

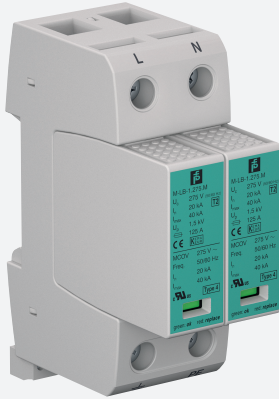
Technical Data

Core cross section	- min. 1.5 mm² solid/flexible - max. 35 mm² stranded/25 mm² flexible - max. 1.5 mm² solid/flexible (for remote signalling contact)
Material	
Housing	thermoplastic, color grey , UL 94 V-0
Mass	approx. 240 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.

Assembly

Front view





Surge Protection Barrier

M-LB-2.275TN.D

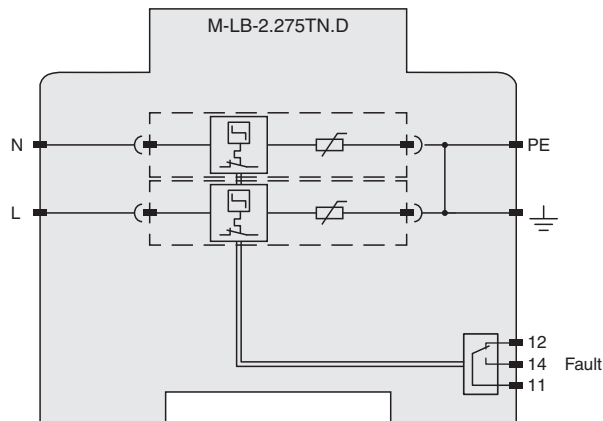
- Surge protection for 2 supply lines
- Type 2 acc. to EN 61643-11
- For TN systems (230 V AC)
- Pre-wired unit
- Operating state and fault indication of every protected line
- Fault indication output
- DIN rail mountable



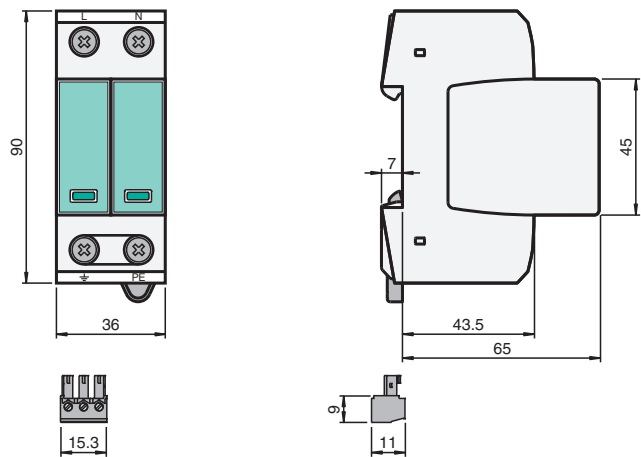
Function

This device is a modular surge protection barrier (type 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

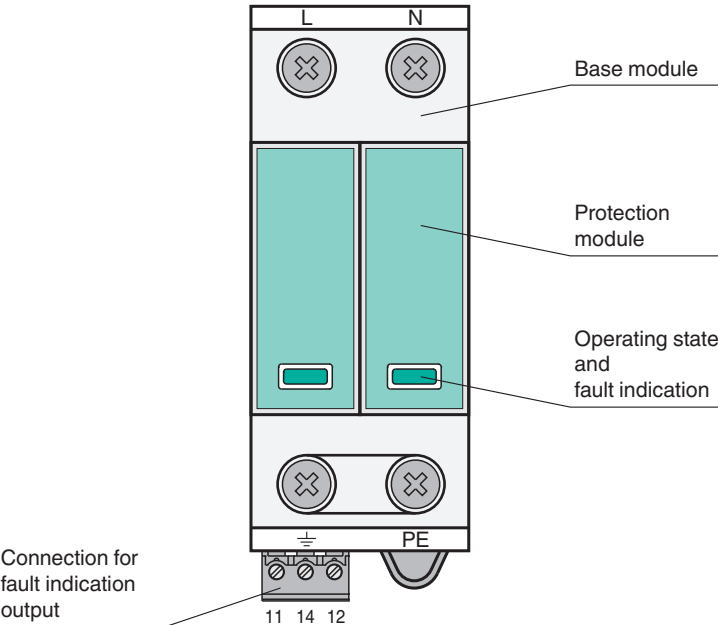
Search characteristics		
Network configuration		TN
General specifications		
Device type		type 2 acc. to EN 61643-11 class II acc. to IEC 61643-1
Number of protected supply lines		2
Suitable components		protection module M-LB-1.275.M
Electrical specifications		
Nominal voltage		230 V AC, 50 ... 60 Hz
Maximum continuous operating voltage		U _c 275 V AC, 50 ... 60 Hz
Temporary over-voltage		U _t 335 V / 5 s (TOV withstand)
Nominal discharge current (8/20 μs)		I _n 20 kA
Max. surge current (8/20 μs)		I _{max} 40 kA
Voltage protection level		U _p max. 1.25 kV max. 1 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. 240 g
Dimensions		36 x 90 x 72 mm (1.4 x 3.6 x 2.8 inch) (W x H x D) , 2 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.	

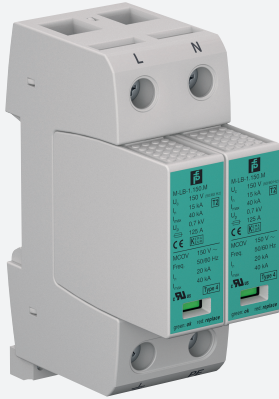
Assembly

Front view



Accessories

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



Surge Protection Barrier

M-LB-2.150TN.D

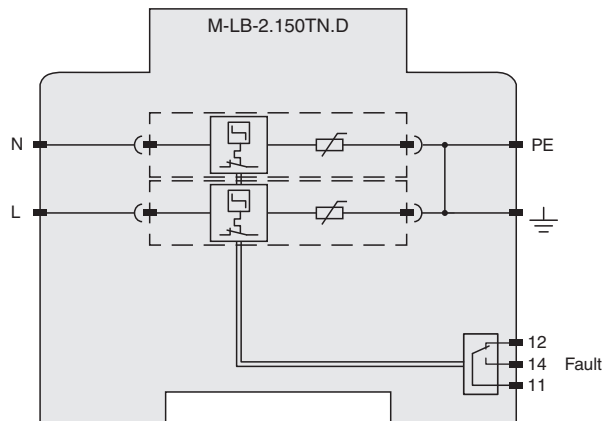
- Surge protection for 2 supply lines
- Type 2 acc. to EN 61643-11
- For TN systems (120 V AC)
- Pre-wired unit
- Operating state and fault indication of every protected line
- Fault indication output
- DIN rail mountable



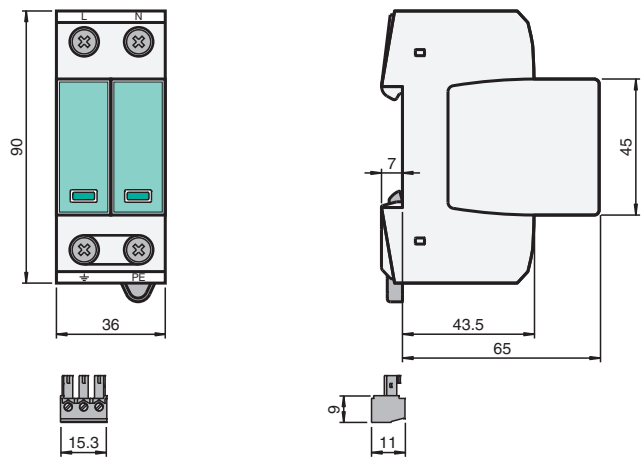
Function

This device is a modular surge protection barrier (type 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

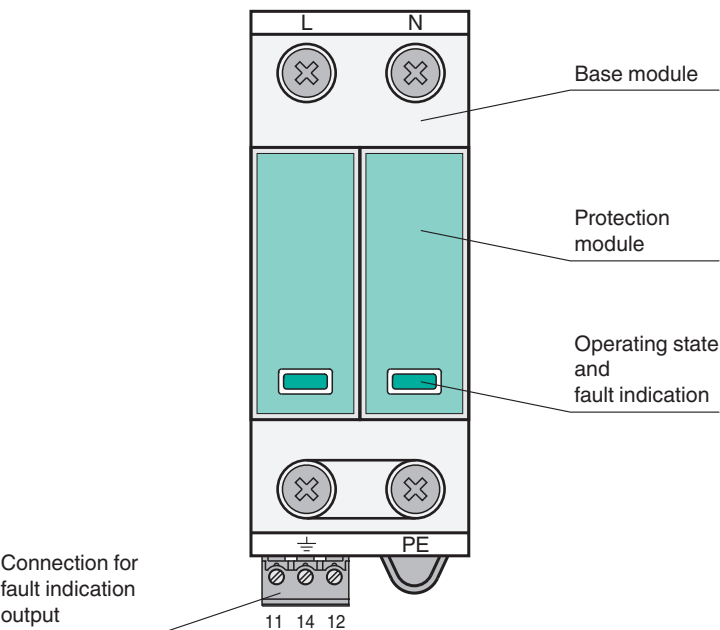
Search characteristics		
Network configuration		TN
General specifications		
Device type		type 2 acc. to EN 61643-11 class II acc. to IEC 61643-1
Number of protected supply lines		2
Suitable components		protection module M-LB-1.150.M
Electrical specifications		
Nominal voltage		120 V AC, 50 ... 60 Hz
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 μs)	I _n	15 kA
Max. surge current (8/20 μs)	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. 240 g
Dimensions		36 x 90 x 72 mm (1.4 x 3.6 x 2.8 inch) (W x H x D) , 2 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.	

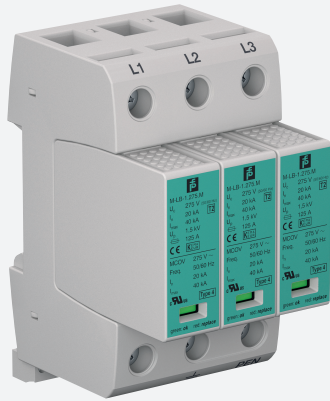
Assembly

Front view



Accessories

	M-LB-1.150.M	Protection Module for Surge Protection Barrier
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Surge Protection Barrier M-LB-3.275TNC.D

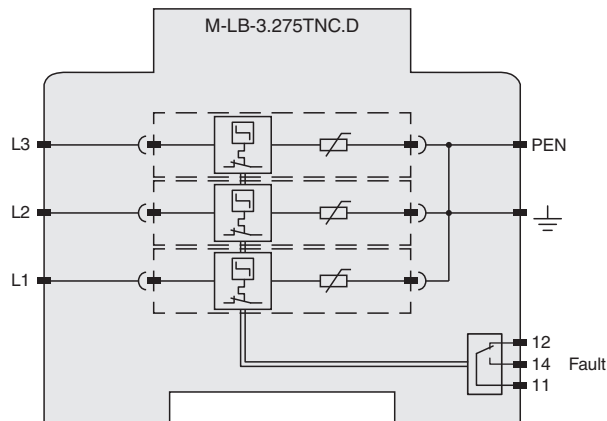
- Surge protection for 3 supply lines
- Type 2 acc. to EN 61643-11
- For TN-C systems (230 V AC/400 V AC)
- Pre-wired unit
- Operating state and fault indication of every protected line
- Fault indication output
- DIN rail mountable



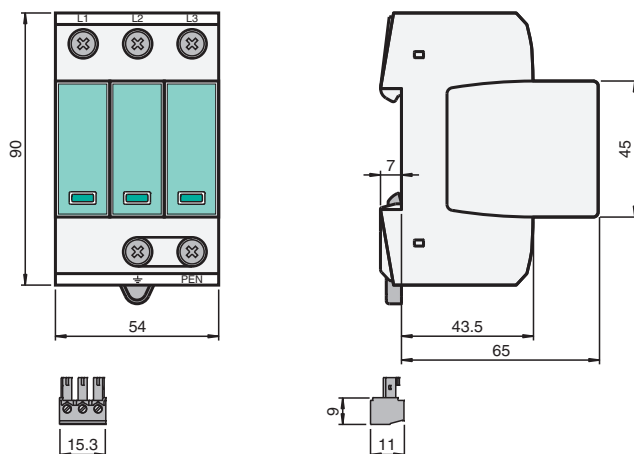
Function

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	TN-C
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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-1.275.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
Temporary over-voltage	U_t 335 V / 5 s (TOV withstand)
Nominal discharge current (8/20 μ s)	I_n 20 kA
Max. surge current (8/20 μ s)	I_{max} 40 kA
Voltage protection level	U_p max. 1.25 kV max. 1 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)
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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 %

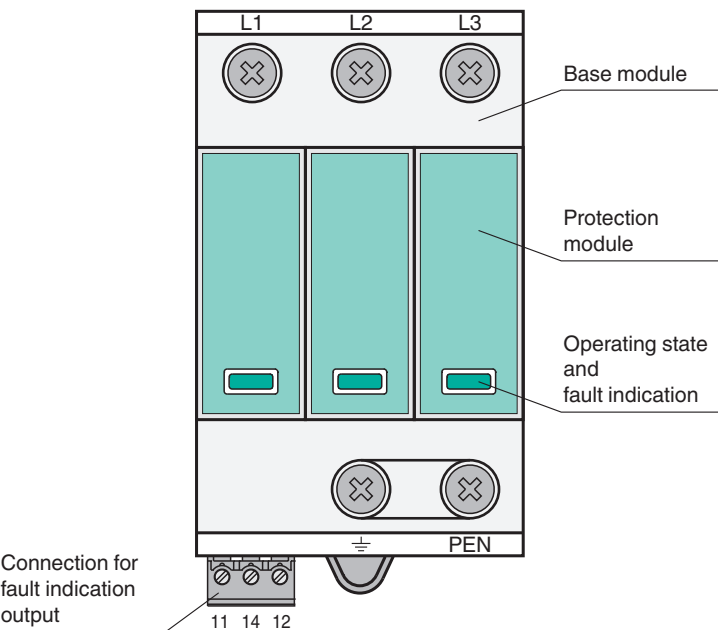
Mechanical specifications

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.	

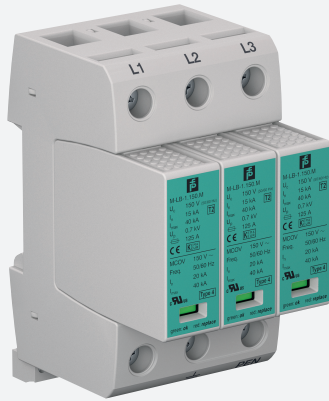
Assembly

Front view



Accessories

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



Surge Protection Barrier

M-LB-3.150TNC.D

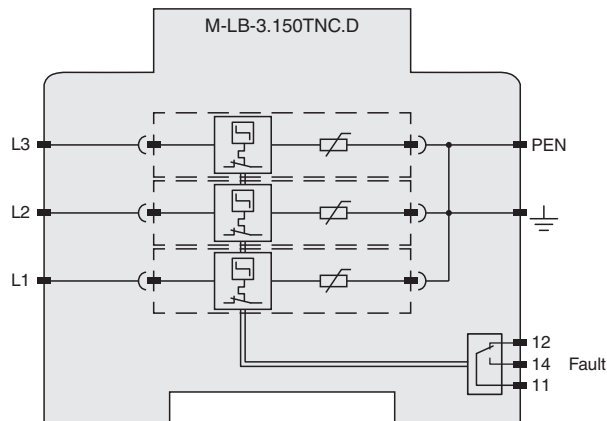
- Surge protection for 3 supply lines
- Type 2 acc. to EN 61643-11
- For TN-C systems (120 V AC/240 V AC)
- Pre-wired unit
- Operating state and fault indication of every protected line
- Fault indication output
- DIN rail mountable



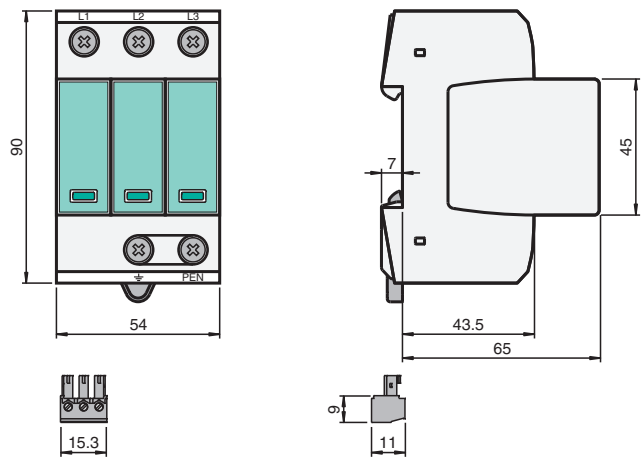
Function

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

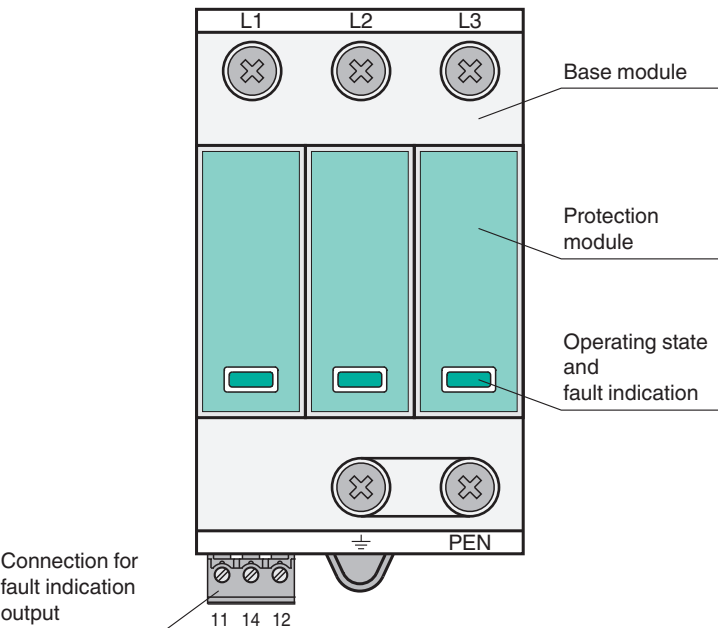
Search characteristics		
Network configuration		TN-C
General specifications		
Device type		type 2 acc. to EN 61643-11 class II acc. to IEC 61643-1
Number of protected supply lines		3
Suitable components		protection module M-LB-1.150.M
Electrical specifications		
Nominal voltage		120 V AC, 50 ... 60 Hz 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 μs)	I _n	15 kA
Max. surge current (8/20 μs)	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.	

Assembly

Front view



Accessories

	M-LB-1.150.M	Protection Module for Surge Protection Barrier
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Surge Protection Barrier M-LB-4.275TNS.D

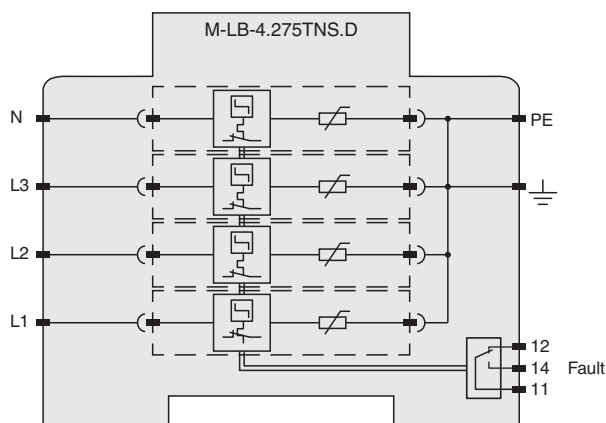
- Surge protection for 4 supply lines
- Type 2 acc. to EN 61643-11
- For TN-S systems (230 V AC/400 V AC)
- Pre-wired unit
- Operating state and fault indication of every protected line
- Fault indication output
- DIN rail mountable



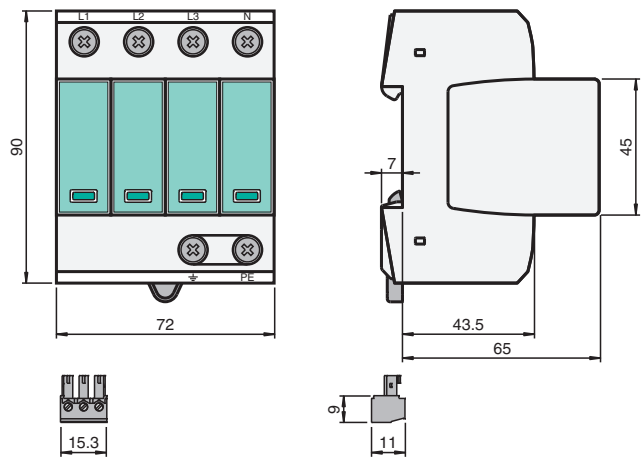
Function

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

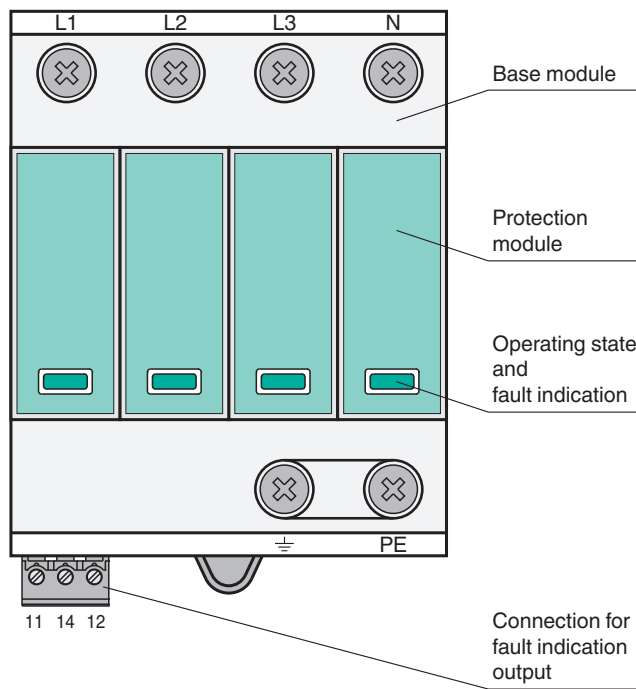
Search characteristics		
Network configuration		TN-S
General specifications		
Device type		type 2 acc. to EN 61643-11 class II acc. to IEC 61643-1
Number of protected supply lines		4
Suitable components		protection module M-LB-1.275.M
Electrical specifications		
Nominal voltage		230 V AC, 50 ... 60 Hz 400 V AC, 50 ... 60 Hz
Maximum continuous operating voltage	U _c	275 V AC, 50 ... 60 Hz
Temporary over-voltage	U _t	335 V / 5 s (TOV withstand)
Nominal discharge current (8/20 μs)	I _n	20 kA
Max. surge current (8/20 μs)	I _{max}	40 kA
Voltage protection level	U _p	max. 1.25 kV max. 1 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. 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.	

Assembly

Front view



Accessories

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



Surge Protection Barrier M-LB-4.150TNS.D

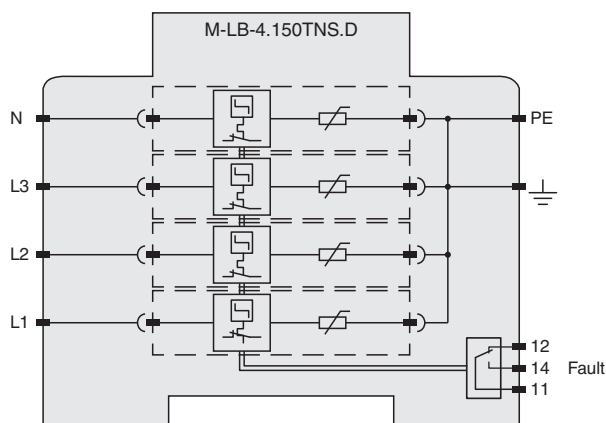
- Surge protection for 4 supply lines
- Type 2 acc. to EN 61643-11
- For TN-S systems (120 V AC/240 V AC)
- Pre-wired unit
- Operating state and fault indication of every protected line
- Fault indication output
- DIN rail mountable



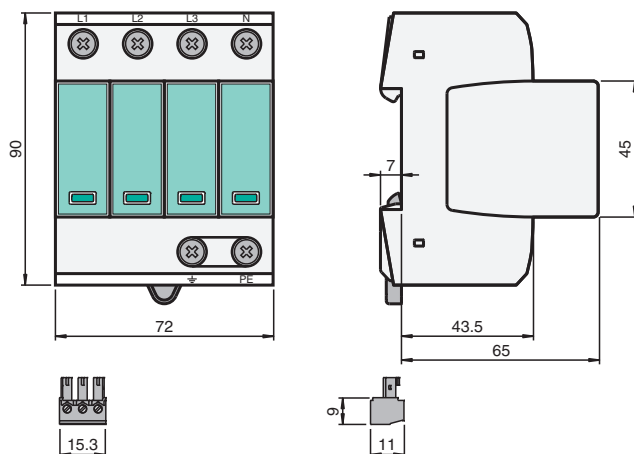
Function

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

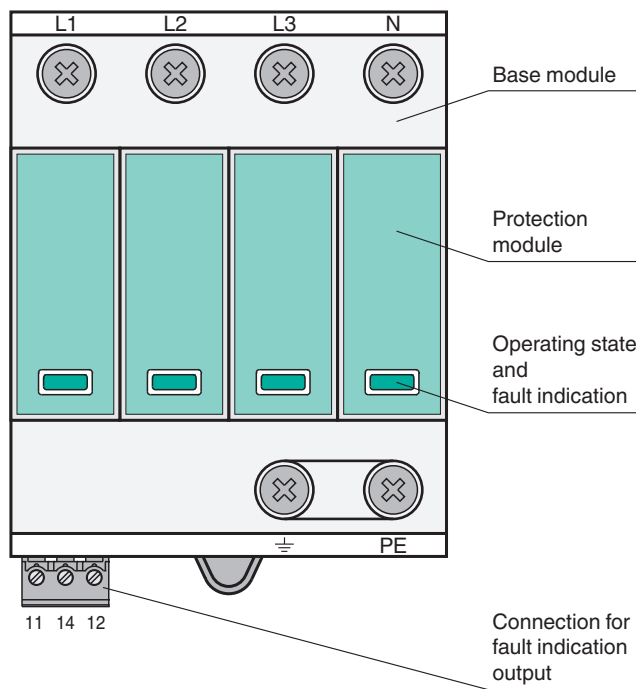
Search characteristics		
Network configuration		TN-S
General specifications		
Device type		type 2 acc. to EN 61643-11 class II acc. to IEC 61643-1
Number of protected supply lines		4
Suitable components		protection module M-LB-1.150.M
Electrical specifications		
Nominal voltage		120 V AC, 50 ... 60 Hz 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 μs)	I _n	15 kA
Max. surge current (8/20 μs)	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}
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		
Degree of protection		IP20

Technical Data

Core cross section	- min. 1.5 mm² solid/flexible - max. 35 mm² stranded/25 mm² flexible - max. 1.5 mm² 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.

Assembly

Front view



Accessories

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

M-LB-4.275TT.D

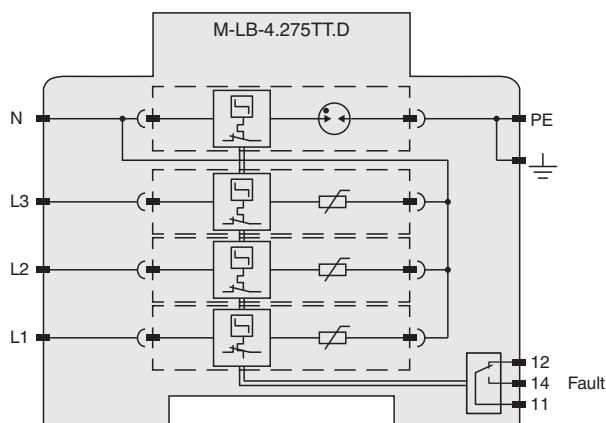
- Surge protection for 4 supply lines
- Type 2 acc. to EN 61643-11
- For TT and TN-S systems (230 V AC/400 V AC)
- Pre-wired unit
- Operating state and fault indication of every protected line
- Fault indication output
- DIN rail mountable



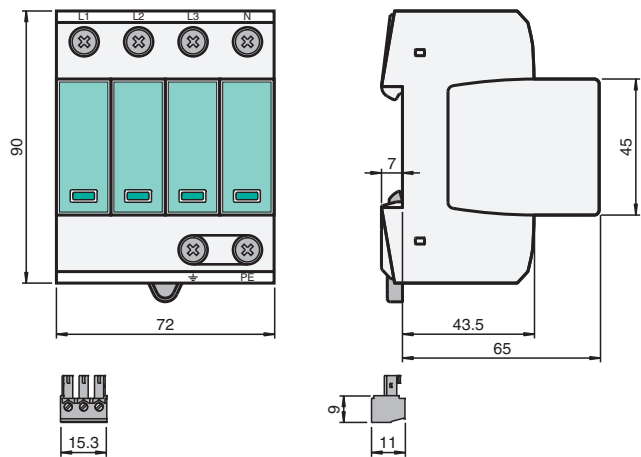
Function

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



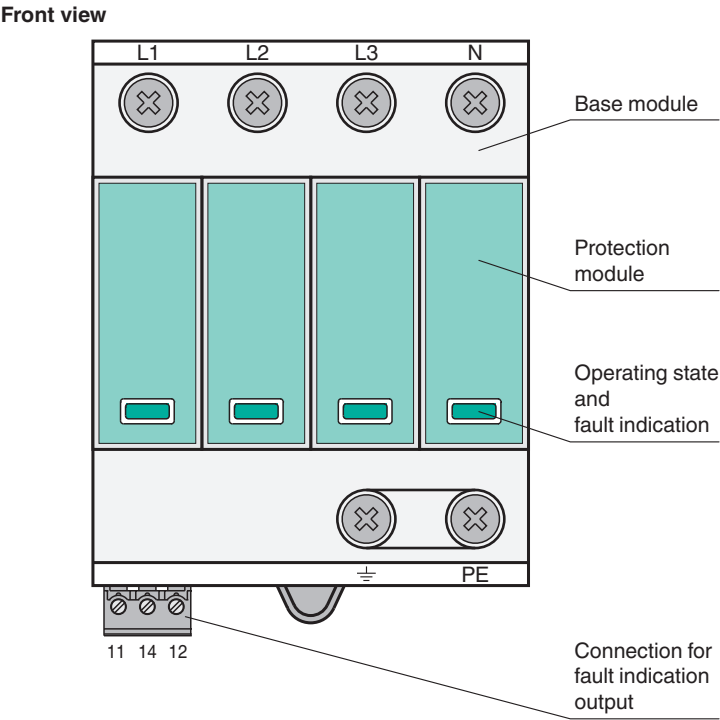
Technical Data

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

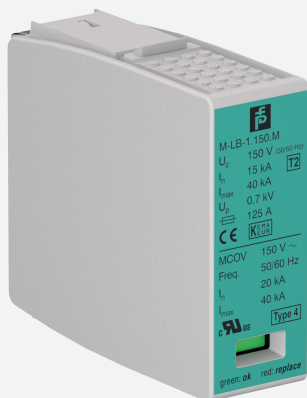
Vibration resistance	EN 60068-2
Ambient conditions	
Ambient temperature	-40 ... 80 °C (-40 ... 176 °F)
Relative humidity	5 ... 95 %
Mechanical specifications	
Degree of protection	IP20
Core cross section	- min. 1.5 mm ² solid/flexible - max. 35 mm ² stranded/25 mm ² flexible - max. 1.5 mm ² solid/flexible (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.

Assembly



Accessories

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



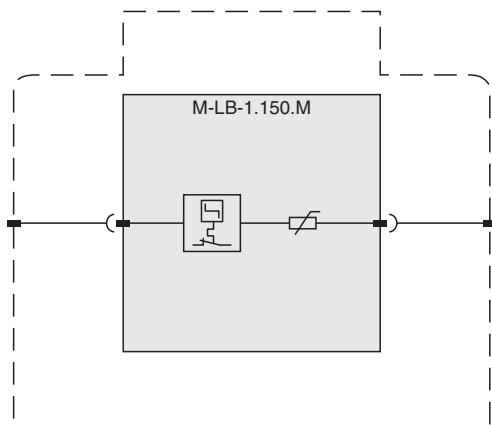
Protection Module for Surge Protection Barrier

M-LB-1.150.M

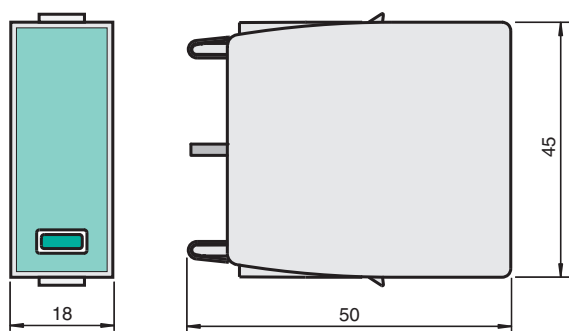
- Protection module for 1 supply line
- Type 2 acc. to EN 61643-11
- Exchange device for surge protection barrier M-LB-*.150*.D
- Easy replacement of protection modules without tools
- High discharge capacity
- Module can be exchanged under voltage (hot swap)



Connection



Dimensions



Technical Data

General specifications		
Device type		type 2 acc. to EN 61643-11 class II acc. to IEC 61643-1
Number of protected supply lines		1
Electrical specifications		
Maximum continuous operating voltage	U_c	150 V AC
Nominal discharge current (8/20 μ s)	I_n	15 kA
Max. surge current (8/20 μ s)	I_{max}	40 kA
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)
Mechanical specifications		
Degree of protection		IP20
Material		
Housing		thermoplastic, color grey , UL 94 V-0
Mass		approx. 50 g
Dimensions		18 x 45 x 50 mm (0.7 x 1.8 x 2 inch) (W x H x D) , 1 TE acc. to DIN 43880
Mounting		in the surge protection barrier M-LB-*,****.*
General information		
Supplementary information		Observe the certificates, declarations of conformity, instruction manuals, and manuals where applicable.



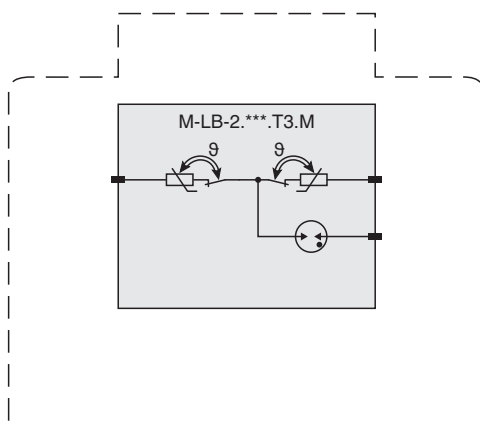
Protection Module for Surge Protection Barrier

M-LB-2.30.T3.M

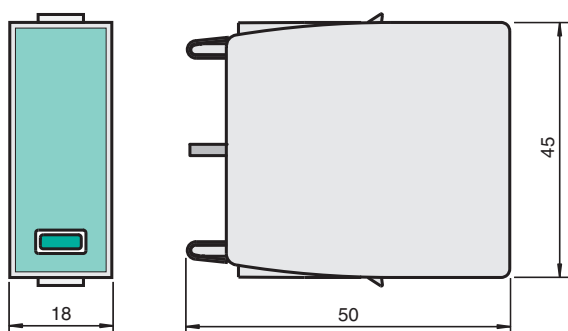
- Protection module for 1 supply line
- Type 3 acc. to EN 61643-11
- Removable module for surge protection barrier M-LB-2.30.T3.D
- Easy replacement of protection modules without tools
- High discharge capacity
- Module can be exchanged under voltage (hot swap)



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		1

Electrical specifications

Maximum continuous operating voltage	U_c	30 V AC 30 V DC
Nominal load current	I_L	25 A
Nominal discharge current (8/20 μ s)	I_n	1 kA
Max. surge current (8/20 μ s)	I_{max}	2 kA

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

Ambient conditions

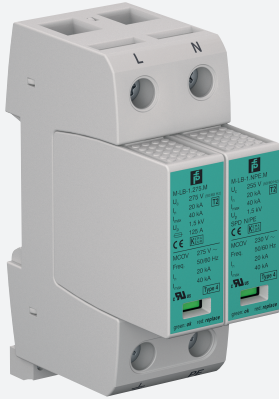
Ambient temperature		-40 ... 80 °C (-40 ... 176 °F)
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Mechanical specifications

Degree of protection		IP20
Material		
Housing		thermoplastic, color grey , UL 94 V-0
Mass		approx. 50 g
Dimensions		18 x 45 x 50 mm (0.7 x 1.8 x 2 inch) (W x H x D) , 1 TE acc. to DIN 43880
Mounting		in the surge protection barrier M-LB-*.****.*

General information

Supplementary information	Observe the certificates, declarations of conformity, instruction manuals, and manuals where applicable.
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Surge Protection Barrier

M-LB-2.275TT.D

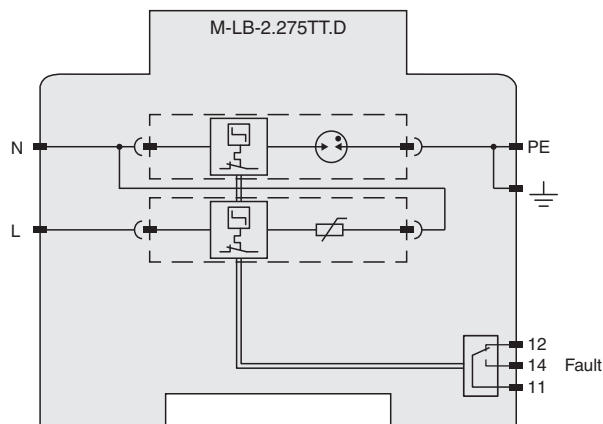
- Surge protection for 2 supply lines
- Type 2 acc. to EN 61643-11
- For TT and TN systems (230 V AC)
- Pre-wired unit
- Operating state and fault indication of every protected line
- Fault indication output
- DIN rail mountable



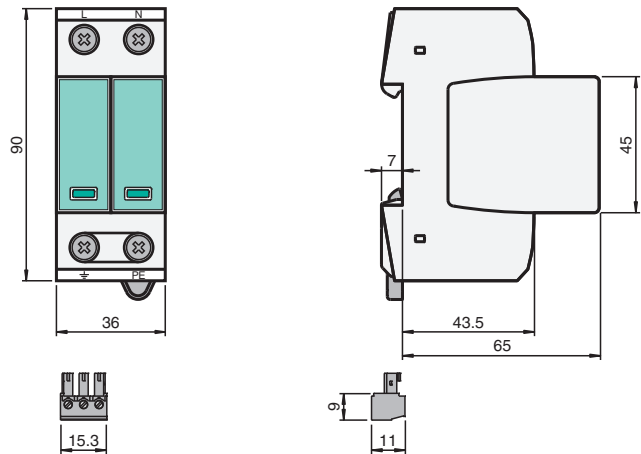
Function

This device is a modular surge protection barrier (type 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

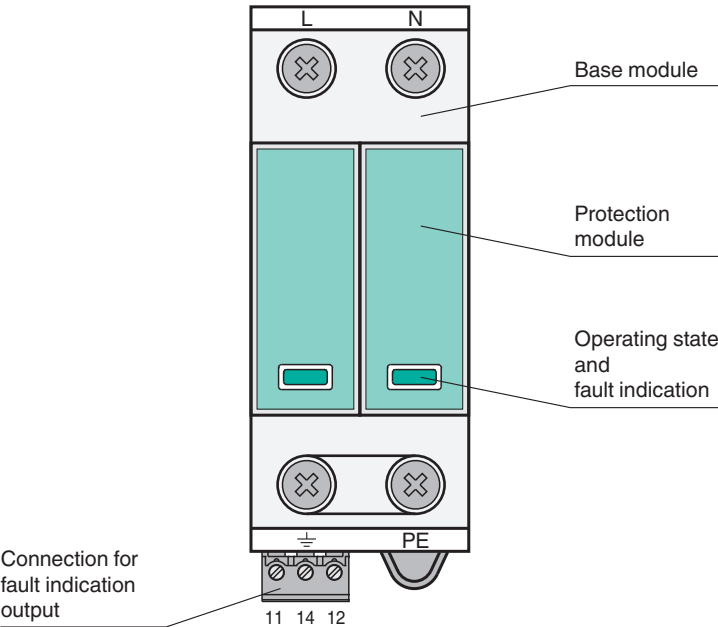
General specifications		
Device type		type 2 acc. to EN 61643-11 class II acc. to IEC 61643-1
Number of protected supply lines		2
Suitable components		protection module M-LB-1.275.M protection module M-LB-1.NPE.M
Electrical specifications		
Nominal voltage		230 V AC, 50 ... 60 Hz
Maximum continuous operating 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
Vibration resistance		EN 60068-2
Ambient conditions		

Technical Data

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. 240 g
Dimensions	36 x 90 x 72 mm (1.4 x 3.6 x 2.8 inch) (W x H x D) , 2 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.

Assembly

Front view



По вопросам продаж и поддержки обращайтесь:

Алматы (727)345-47-04
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Владикавказ (8672)28-90-48
Владимир (4922)49-43-18
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89

Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
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