

1669983
<https://www.phoenixcontact.com/in/products/1669983>

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Surge protection plug, directly pluggable on 2 terminal blocks, with integrated status indicator on the module for a 2-wire floating signal circuit with high nominal current. Nominal voltage: 230 V AC

Your advantages

- Easy installation due to Push-in terminal blocks with pluggable surge protection
- Superior system availability thanks to high-performance protective circuit with integrated overload protection
- Quick and easy diagnostics with optional remote signaling for integration into digital infrastructures
- Three become two - use just two terminal blocks to protect two signal paths in an overall width of 10.3 mm
- Future-proof - meets international standards and directives, such as IEC 61643-21

Commercial data

Item number	1669983
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	CL2171
GTIN	4067923218178
Weight per piece (including packing)	53.3 g
Weight per piece (excluding packing)	34.05 g
Country of origin	DE

CLT-10P/2-MOV-230V-I-P - Surge protection plug



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Technical data

Product properties

Product type	Surge protection for MCR technology
Product family	CLIXTRAB
IEC test classification	C1
	C2
	C3
	D1
Type	DIN rail module, two-section, divisible

Insulation characteristics

Overvoltage category	III
Pollution degree	2

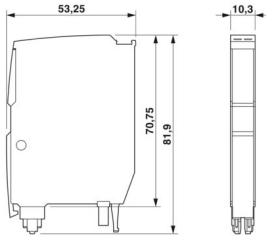
Electrical properties

Nominal voltage U_N	240 V AC
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Connection data

Connection method	pluggable
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Dimensions

Dimensional drawing	
Width	10.3 mm
Height	53.25 mm
Depth	81.9 mm

Material specifications

Color	light gray (RAL 7035)
Flammability rating according to UL 94	V-0
Insulating material	PA 6.6+GV 20 %
Housing material	PA 6.6+GV 20 %

Mechanical properties

Mechanical data

Open side panel	No
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Protective circuit

Maximum continuous voltage U_C	250 V DC
	275 V AC
Rated current	10 A AC (80 °C / 10 A AC C)
	6 A DC (80 °C / 6,3 A DC F)
	10 A DC (80 °C / 10 A DC D01 gR)
Operating effective current I_C at U_C	$\leq 2 \mu\text{A}$
Residual current I_{PE}	$\leq 4 \mu\text{A}$
Total discharge current I_{total} (8/20) μs	6 kA
Voltage protection level U_p (line-earth)	$\leq 950 \text{ V}$ (C1 - 1,5 kV / 750 A)
	$\leq 1.2 \text{ kV}$ (C2 - 6 kV / 3 kA)
	$\leq 900 \text{ V}$ (C3 - 50 A)
Response time t_A (line-earth)	$\leq 100 \text{ ns}$
Input attenuation aE, asym.	typ. 0.3 dB ($\leq 700 \text{ kHz}/150 \Omega$)
Cut-off frequency f_g (3 dB), asym. (signal ground) in 150 Ω system	typ. 2.4 MHz
Capacity (line-signal ground)	typ. 900 pF
Surge protection fault message	optical
Max. required back-up fuse	10 A AC (C)
	6.3 A DC (F)
	10 A DC (D01 gR)
Impulse durability (line-earth)	C1 - 1,5 kV / 750 A
	C2 - 6 kV / 3 kA
	C3 - 50 A
	D1 - 500 A

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 80 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Altitude	$\leq 2000 \text{ m}$ (amsl)
Permissible humidity (operation)	5 % ... 95 %
Shock (operation)	5g (Half-sine / 11 ms / 3x $\pm X$, $\pm Y$, $\pm Z$)
	10g (Half-sine / 8 ms / 3x $\pm X$, $\pm Y$, $\pm Z$)
	5g (Half-sine / 30 ms / 3x $\pm X$, $\pm Y$, $\pm Z$)
Vibration (operation)	0,58g (5 ... 150 Hz / 5 h / X, Y, Z)
	1g (5 ... 2000 Hz / 5 h / X, Y, Z)

Standards and regulations

Standards/specifications	IEC 61643-21
Note	2000 + corrigendum 2001 + A1:2008, modified + A2:2012
Standards/specifications	EN 61643-21

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Note	2001 + A1:2009 + A2:2013
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Mounting

Mounting type	on base element
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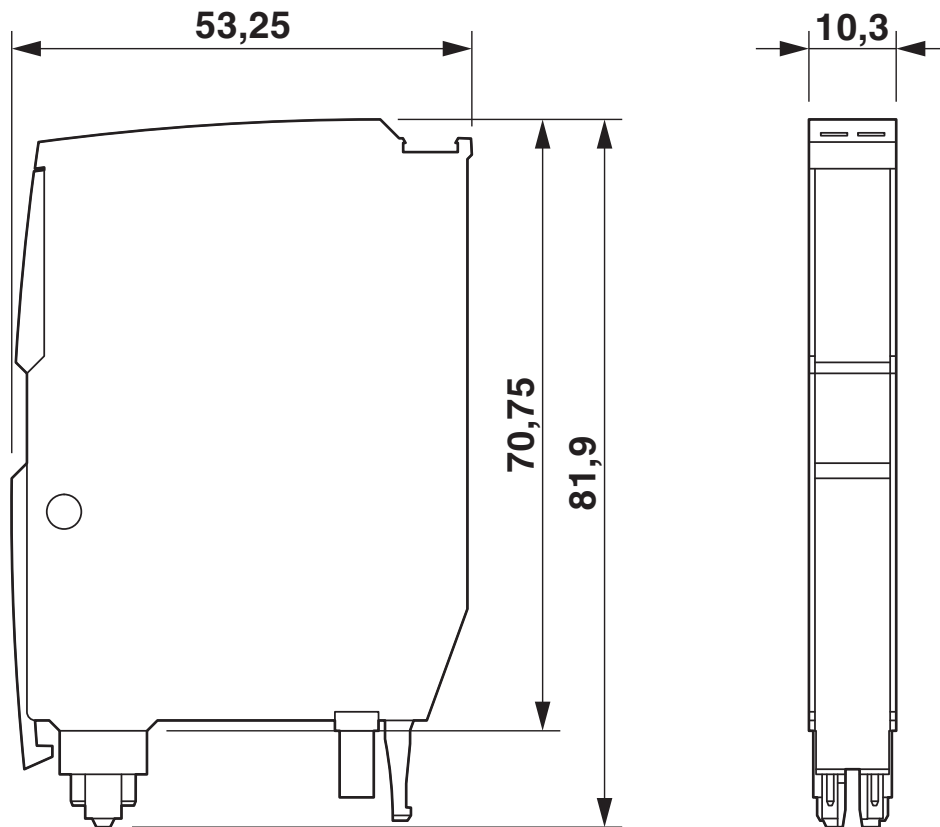
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Drawings

Dimensional drawing



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Connection diagram

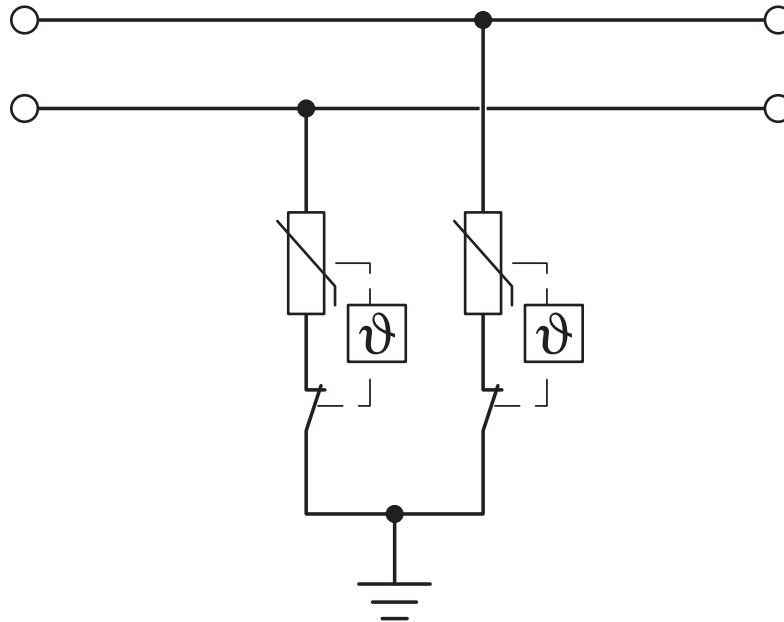


Figure relates to the product in connection with the terminal blocks PT 2,5-MT-CLT

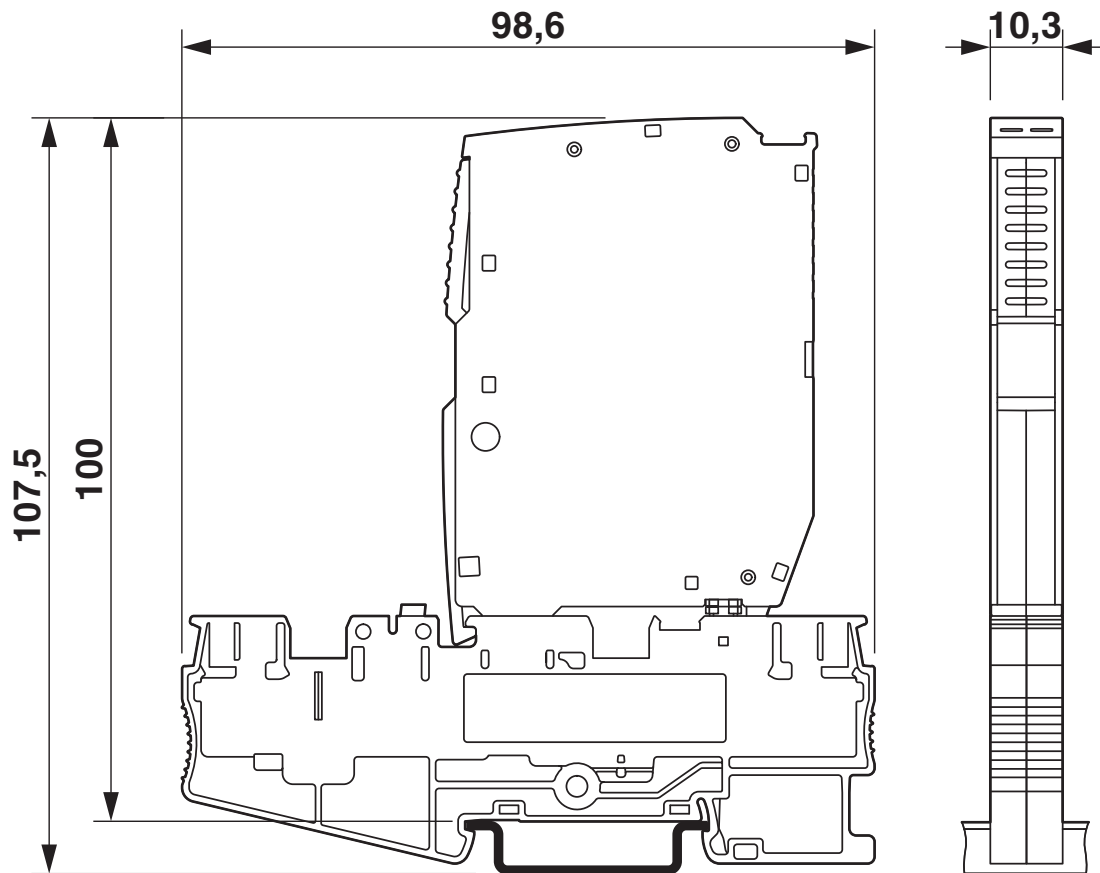
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Dimensional drawing



The figure shows the product with the corresponding terminal blocks

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Classifications

ECLASS

ECLASS-13.0	27171602
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ETIM

ETIM 9.0	EC001625
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Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes, No exemptions
China RoHS	
Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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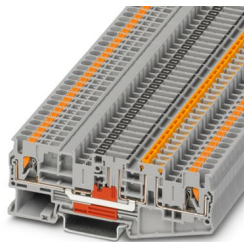
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Mandatory accessories

PT 2,5-MT-CLT - Knife-disconnect terminal block

1087698

<https://www.phoenixcontact.com/in/products/1087698>

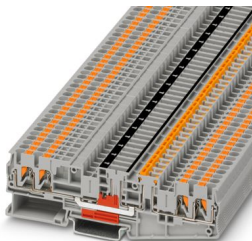


Knife-disconnect terminal block, for CLIXTRAB surge protection, Test-disconnect terminal block for surge protection, nom. voltage: 400 V, nominal current: 20 A, connection method: Push-in connection, Rated cross section: 2.5 mm², cross section: 0.14 mm² - 4 mm², mounting: NS 35/7,5, NS 35/15, color: gray

PT 2,5-QUATTRO-MT-CLT - Knife-disconnect terminal block

1251103

<https://www.phoenixcontact.com/in/products/1251103>



Knife-disconnect terminal block, for CLIXTRAB surge protection, nom. voltage: 400 V, nominal current: 20 A, connection method: Push-in connection, Rated cross section: 2.5 mm², cross section: 0.14 mm² - 4 mm², mounting: NS 35/7,5, NS 35/15, color: gray

CLT-10P/2-MOV-230V-I-P - Surge protection plug



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PT 2,5-TWIN-MT-CLT - Knife-disconnect terminal block

1251104

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Knife-disconnect terminal block, for CLIXTRAB surge protection, nom. voltage: 400 V, nominal current: 20 A, connection method: Push-in connection, Rated cross section: 2.5 mm², cross section: 0.14 mm² - 4 mm², mounting: NS 35/7,5, NS 35/15, color: gray

Accessories

FBS 2-5 - Plug-in bridge

3030161

<https://www.phoenixcontact.com/in/products/3030161>



Plug-in bridge, pitch: 5.2 mm, number of positions: 2, length: 23 mm, color: red

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TTC-6-FMTX-PT - Remote signaling module transmitter

1193565

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Transmitter module, for the visual monitoring and floating remote signaling of adjacent surge protective devices from the TERMITRAB complete or CLIXTRAB product family. Suitable for directly or indirectly grounded DIN rails.

TTC-6-FMRX-PT - Remote signaling module receiver

1193571

<https://www.phoenixcontact.com/in/products/1193571>



Receiver module, for the visual monitoring and floating remote signaling of adjacent surge protective devices from the TERMITRAB complete or CLIXTRAB product family. Suitable for directly or indirectly grounded DIN rails.

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CHECKMASTER 2 - Test device

2905256

<https://www.phoenixcontact.com/in/products/2905256>



CHECKMASTER 2 test device for testing the correct function of surge protective devices from Phoenix Contact.

CM 2-PA-CLT - Test device adapter

1183360

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CHECKMASTER 2 test adapter for the CLT product range.

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PS-5 - Test plug

3030983

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Test plug, Modular test plug, number of positions: 1, color: red

PAI-4-FIX-5/6 RD - Test adapter

3035976

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4 mm test adapter, for terminal blocks with 5.2 mm and 6.2 mm pitch

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ZBF 5:UNBEDRUCKT - Zack Marker strip, flat

0808642

<https://www.phoenixcontact.com/in/products/0808642>



Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: latching, for terminal block width: 5 mm, Number of individual labels: 10, text field height: 5.15 mm, text field width: 5.15 mm

S-MT - Switching lock

3247954

<https://www.phoenixcontact.com/in/products/3247954>



Switching lock, depth: 23.1 mm, width: 3.5 mm, height: 10.5 mm, color: white

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P-DI - Isolating plug

3036783

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Isolating plug, depth: 23.1 mm, width: 3.5 mm, height: 10.8 mm, color: orange

D-PT 2,5-MT-CLT - End cover

1088502

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End cover, depth: 29.1 mm, width: 2.2 mm, height: 98.6 mm, color: gray

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D-PT 2,5-QUATTRO-MT-CLT - End cover

1251101

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End cover, depth: 29.1 mm, width: 2.2 mm, height: 120.7 mm, color: gray



D-PT 2,5-TWIN-MT-CLT - End cover

1251102

<https://www.phoenixcontact.com/in/products/1251102>

End cover, depth: 29.1 mm, width: 2.2 mm, height: 110.4 mm, color: gray



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ZBF10:UNBEDRUCKT - Zack Marker strip, flat

0809997

<https://www.phoenixcontact.com/in/products/0809997>



Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, PLOTMARK, mounting type: latching, for terminal block width: 10 mm, Number of individual labels: 10, text field height: 10 mm, text field width: 5.15 mm

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