

# CLT-10P/2-VF-230V-I-P/50 - Surge protection plug



1634908

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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 - satisfies international standards and directives, such as the DB RIL 819.0808 railway directive

## Commercial data

Item number	1634908
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	CL2171
Product key	CL2171
GTIN	4067923156555
Weight per piece (including packing)	1,842.5 g
Weight per piece (excluding packing)	1,752.5 g
Customs tariff number	85363010
Country of origin	DE

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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

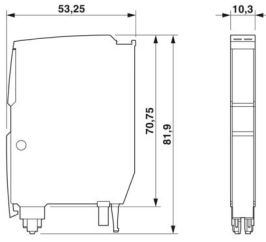
### Electrical properties

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 $U_C$	230 V DC
	264 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 $U_C$	$\leq 1 \mu A$
Residual current $I_{PE}$	$\leq 2 \mu A$
Total discharge current $I_{Total}$ (8/20) $\mu s$	6 kA
Voltage protection level $U_p$ (line-earth)	$\leq 1.4$ kV (C1 - 1,5 kV / 750 A)
	$\leq 1.4$ kV (C2 - 6 kV / 3 kA)
	$\leq 1.5$ kV (C3 - 50 A)
Response time $t_A$ (line-earth)	$\leq 100$ ns
Input attenuation aE, asym.	typ. 0.3 dB ( $\leq 60$ MHz/150 $\Omega$ )
Cut-off frequency $f_g$ (3 dB), asym. (signal ground) in 150 $\Omega$ system	typ. 60 MHz
Capacity (line-signal ground)	typ. 20 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
Pulse reset time (line-earth)	$\leq 30$ ms

## 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	$\leq 2000$ 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)

## 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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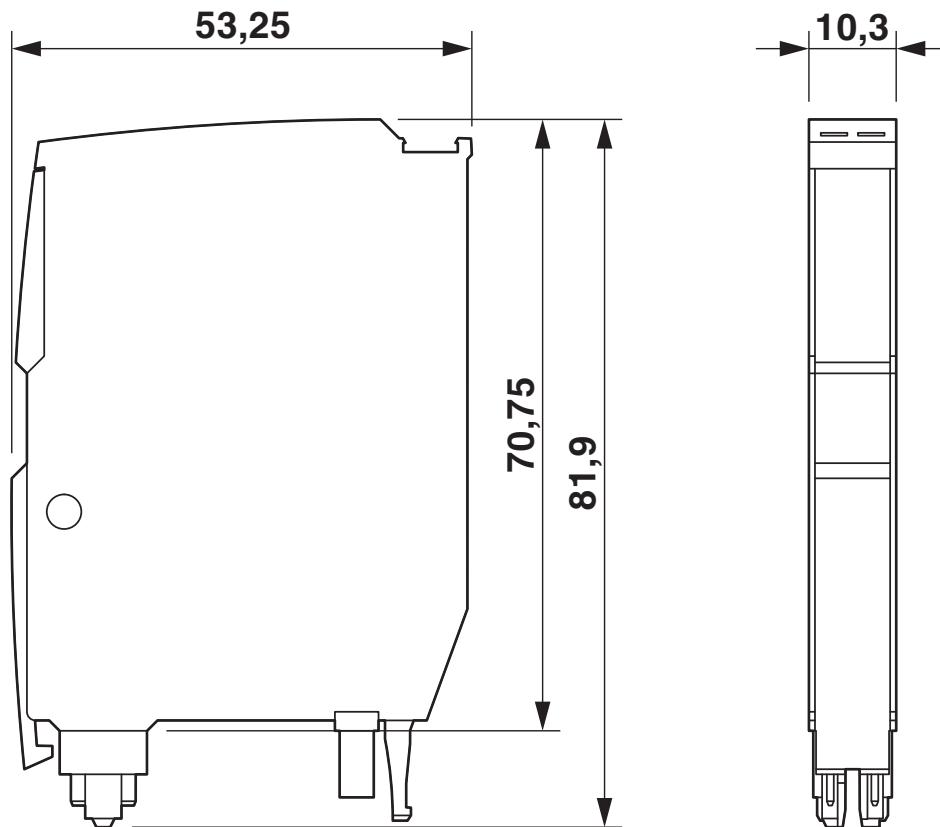
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## Drawings

Dimensional drawing



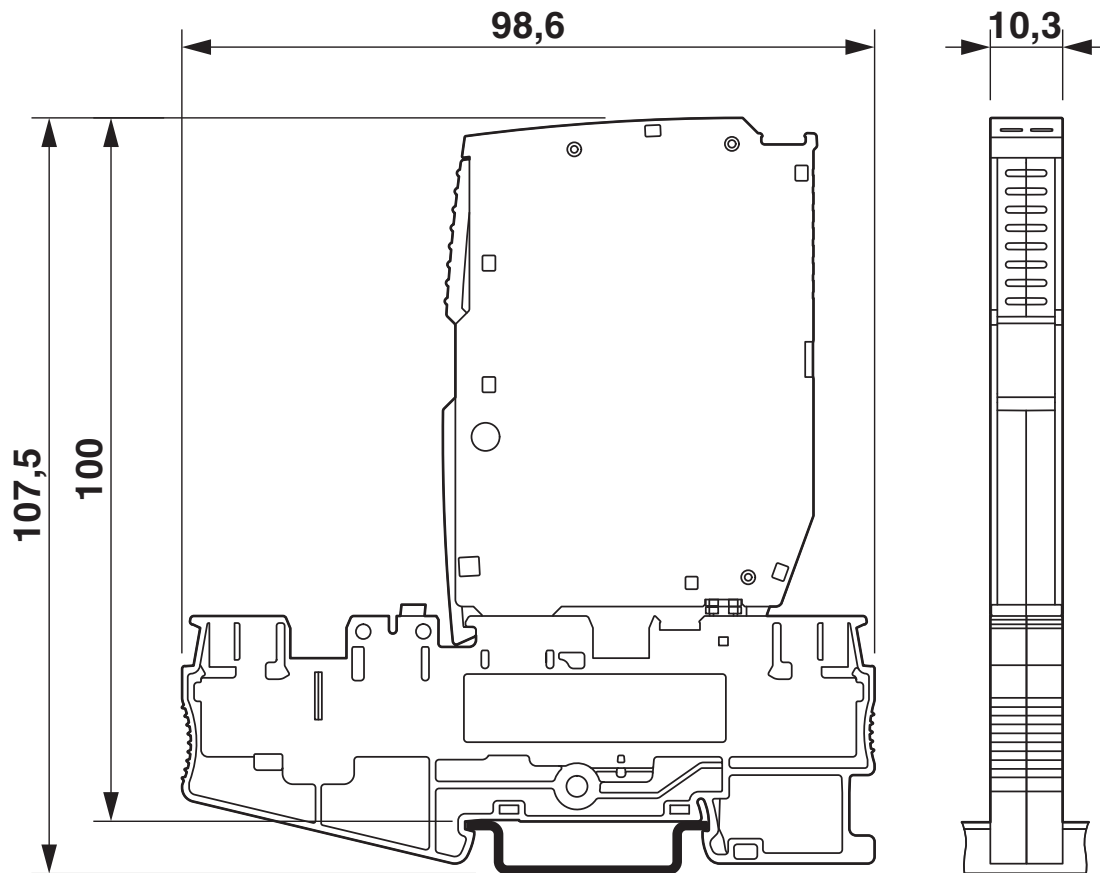
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Dimensional drawing



The figure shows the product with the corresponding terminal blocks

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Connection diagram

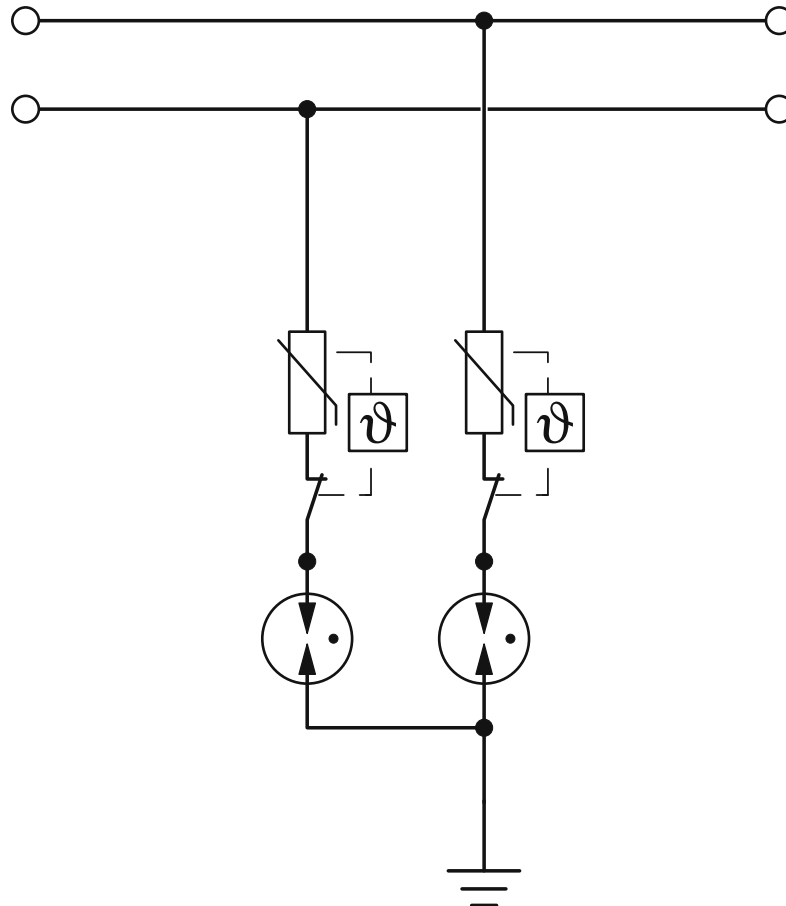


Figure relates to the product in connection with the terminal blocks PT 2,5-MT-CLT

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## 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
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### 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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