

CLT-20P/4-VF-230V-I-P - Surge protection plug



1088567

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10 A

IEC



Surge protection plug, directly pluggable on 4 terminal blocks, with integrated status indicator on the module for a 4-wire floating signal circuit with high nominal current. Application voltage 100...264 V AC or 100...230 V DC

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	1088567
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	CL2171
GTIN	4055626889726
Weight per piece (including packing)	92.14 g
Weight per piece (excluding packing)	70.1 g
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	Male

Insulation characteristics

Overvoltage category	III
Pollution degree	2

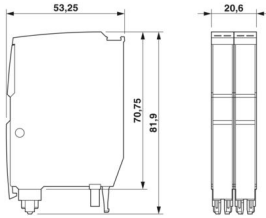
Electrical properties

Nominal voltage U_N	240 V AC
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Connection data

Connection method	pluggable
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Dimensions

Dimensional drawing	
Width	20.6 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

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Direction of action	Line-Earth Ground
Nominal voltage U_N	240 V AC
Maximum continuous operating 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	$\leq 1 \mu A$
Protective conductor current I_{PE}	$\leq 4 \mu A$
Total discharge current I_{Total} (8/20) μs	12 kA
Voltage protection level U_p (line-earth)	≤ 1.4 kV (C1 - 1,5 kV / 750 A)
	≤ 1.4 kV (C2 - 6 kV / 3 kA)
	≤ 1.5 kV (C3 - 50 A)
Response time t_A (line-earth)	≤ 100 ns
Input attenuation aE, asym.	typ. 0.3 dB (≤ 60 MHz/150 Ω)
Cut-off frequency f_g (3 dB), asym. (signal ground) in 150 Ω system	typ. 60 MHz
Capacitance (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)	≤ 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	≤ 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)
	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

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Standards/specifications	EN 61643-21
Note	2001 + A1:2009 + A2:2013

Mounting

Mounting type	on base element
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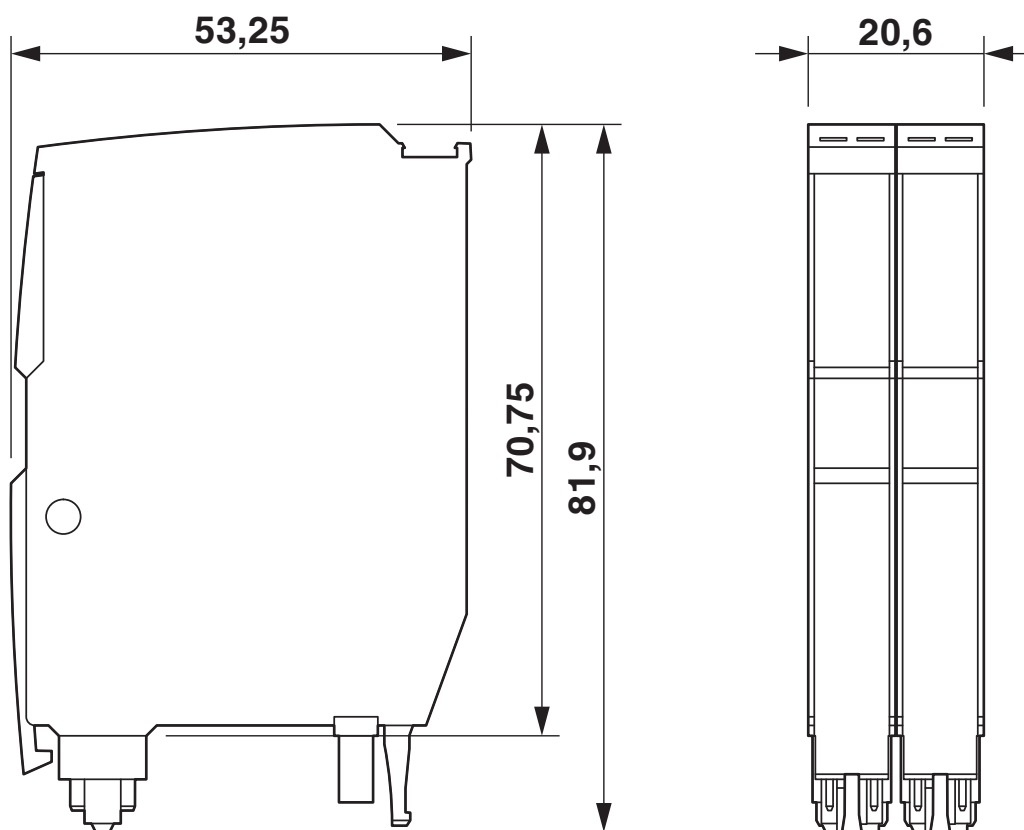
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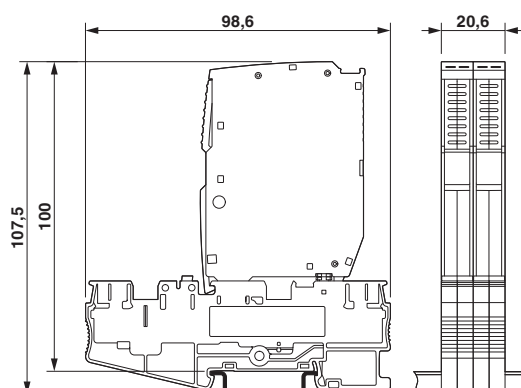


Drawings

Dimensional drawing



Dimensional drawing



The figure shows the product with the corresponding terminal blocks

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Connection diagram

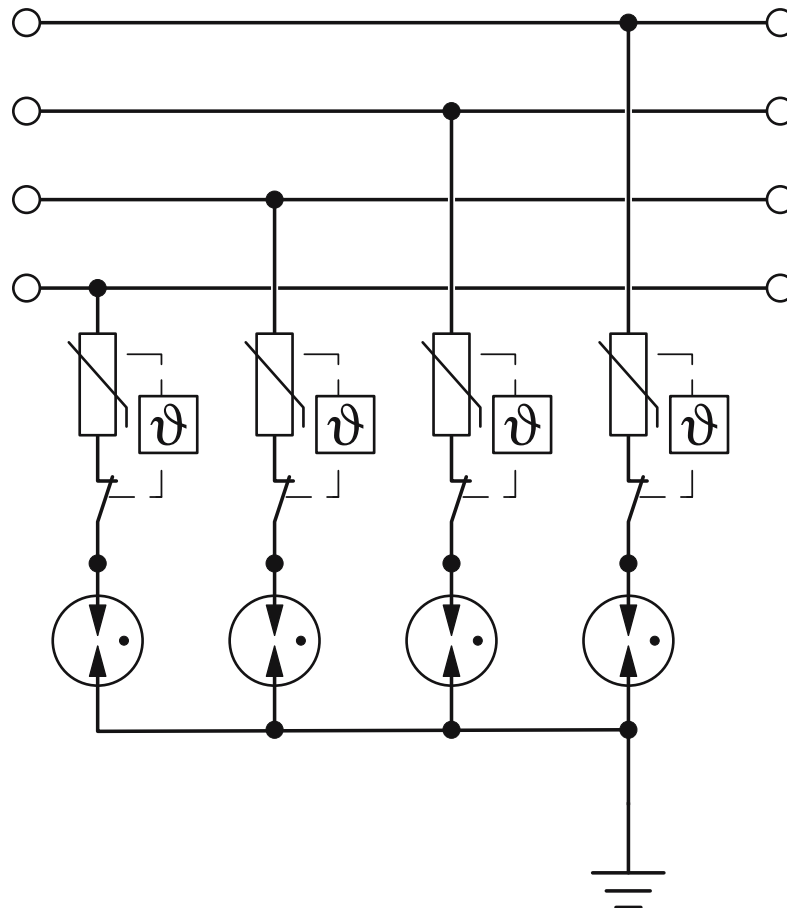


Figure relates to the product in connection with the terminal blocks PT 2,5-MT-CLT

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Classifications

ECLASS

ECLASS-13.0	27171602
ECLASS-15.0	27171602

ETIM

ETIM 10.0	EC001625
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UNSPSC

UNSPSC 21.0	39121600
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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%
EF3.1 Climate Change	
CO2e kg	3.206 kg CO2e

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