Type 3 surge protection device - PLT-SEC-T3-230-FM-PT - 2907928

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Type 2/3 surge protection, consisting of protective plug and base element with Push-in connection. For single-phase power supply network with integrated status indicator and remote signaling. Nominal voltage 230 V AC/DC.

Your advantages

- Quick, tool-free installation with Push-in connection technology
- Increased service life and availability of the system, thanks to optimal protection of your industrial power supply
- 5-year warranty on your QUINT 4 power supply when installed together with PLT-SEC, see document in the download area
- Easy maintenance and testing of protective devices, thanks to pluggable connections

Key Commercial Data

Packing unit	5 pc
GTIN	4 055626 257655
GTIN	4055626257655

Technical data

Dimensions

Height	101 mm
Width	17.7 mm
Depth	74.5 mm (incl. DIN rail 7.5 mm)
Horizontal pitch	1 Div.

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 80 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Altitude	≤ 2000 m (operating voltage remote contact ≤ 250 V)
	≤ 6000 m (operating voltage remote contact ≤ 150 V)
Permissible humidity (operation)	5 % ... 95 %

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Ambient conditions

Shock (operation)	30g (Half-sine / 11 ms / 3x ±X, ±Y, ±Z)
Vibration (operation)	5g (5 ... 500 Hz / 2.5 h / X, Y, Z)

General

EN type	T2 / T3
IEC power supply system	TN-S
	TT
Number of ports	One
Mode of protection	L-N
	L-PE
	N-PE
Mounting type	DIN rail: 35 mm
Color	light grey RAL 7035
	traffic grey A RAL 7042
Housing material	PA 6.6-FR 20% GF
	PA 6.6-FR
Degree of pollution	2
Flammability rating according to UL 94	V-0
Type	DIN rail module, two-section, divisible
Number of positions	2
Surge protection fault message	Optical, remote indicator contact

Protective circuit

Nominal frequency f_N	50 Hz (60 Hz)
Maximum continuous voltage U_C	264 V AC
Rated load current I_L	26 A (at 30 °C)
Residual current I_{PE}	≤ 5 µA
Nominal discharge current I_n (8/20) µs	5 kA
Standby power consumption P_C	≤ 26.4 mVA (at U_{REF})
	≤ 26.4 mVA (at U_C)
Reference test voltage U_{REF}	264 V AC
Max. discharge current I_{max} (8/20) µs	10 kA
Combination wave U_{OC}	6 kV
Voltage protection level U_p (L-N)	≤ 1.25 kV (at U_{OC})
	≤ 1.4 kV (at I_n)
Voltage protection level U_p (L-PE)	≤ 1.4 kV
Voltage protection level U_p (N-PE)	≤ 1.4 kV
TOV behavior at U_T (L-N)	400 V AC (5 s / withstand mode)
	457 V AC (120 min / safe failure mode)
TOV behavior at U_T (L-PE)	457 V AC (5 s / withstand mode)
	457 V AC (120 min / withstand mode)

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Protective circuit

	1464 V AC (200 ms / safe failure mode)
TOV behavior at U_T (N-PE)	1200 V AC (200 ms / safe failure mode)
Response time t_A (L-N)	≤ 25 ns
Response time t_A (L-PE)	≤ 100 ns
Response time t_A (N-PE)	≤ 100 ns
Short-circuit current rating I_{SCCR}	10 kA AC
Max. backup fuse with branch wiring	32 A (gG / B / C)
Maximum backup fuse for through wiring	25 A (gG / B / C)

Additional technical data

Short-circuit current rating I_{SCCR}	0.25 kA DC (without additional backup fuse)
	5 kA DC (for 20 A gG / B backup fuse)
Maximum continuous voltage U_C	275 V AC
	240 V DC
Mode of protection	(DC+) - (DC-)
	(DC+/DC-) - PE
IEC test classification (in accordance with IEC 61643-21)	D1
Impulse durability (line-line)	D1 - 500 A
Impulse durability (line-earth)	D1 - 500 A
Pulse discharge current I_{imp} (10/350) µs (line-line)	0.5 kA
Pulse discharge current I_{imp} (10/350) µs (line-earth)	0.5 kA

Indicator/remote signaling

Switching function	PDT contact
Operating voltage	250 V AC
	125 V DC (200 mA DC)
Operating current	0.5 A AC
	0.5 A DC (75 V DC)
Connection method	Push-in connection
Conductor cross section flexible	0.2 mm² ... 2.5 mm²
Conductor cross section solid	0.2 mm² ... 2.5 mm²
Conductor cross section AWG	30 ... 12
Stripping length	10 mm

Connection data

Connection method	Push-in connection
Conductor cross section flexible	0.2 mm² ... 2.5 mm²
Conductor cross section solid	0.2 mm² ... 4 mm²
Conductor cross section AWG	24 ... 12
Stripping length	10 mm

Standards and Regulations

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Standards and Regulations

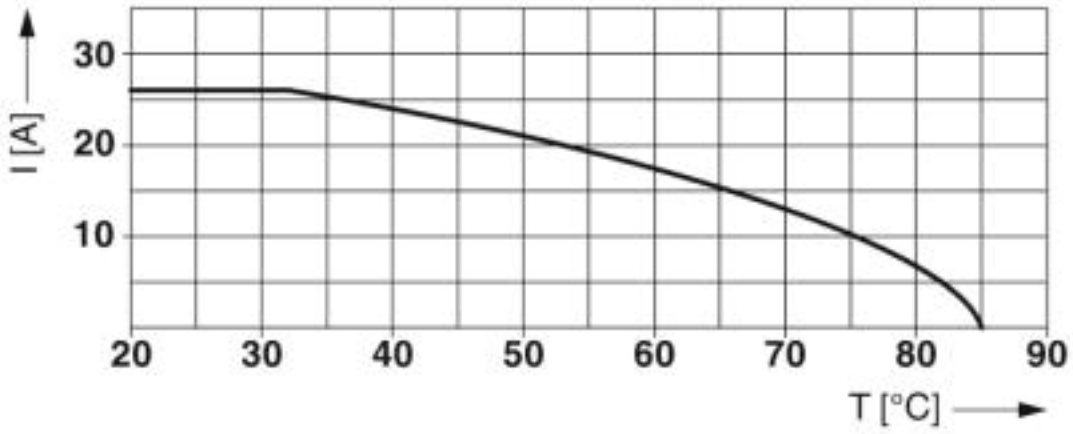
Standards/specifications	IEC 61643-11 2011
	EN 61643-11 2012

Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

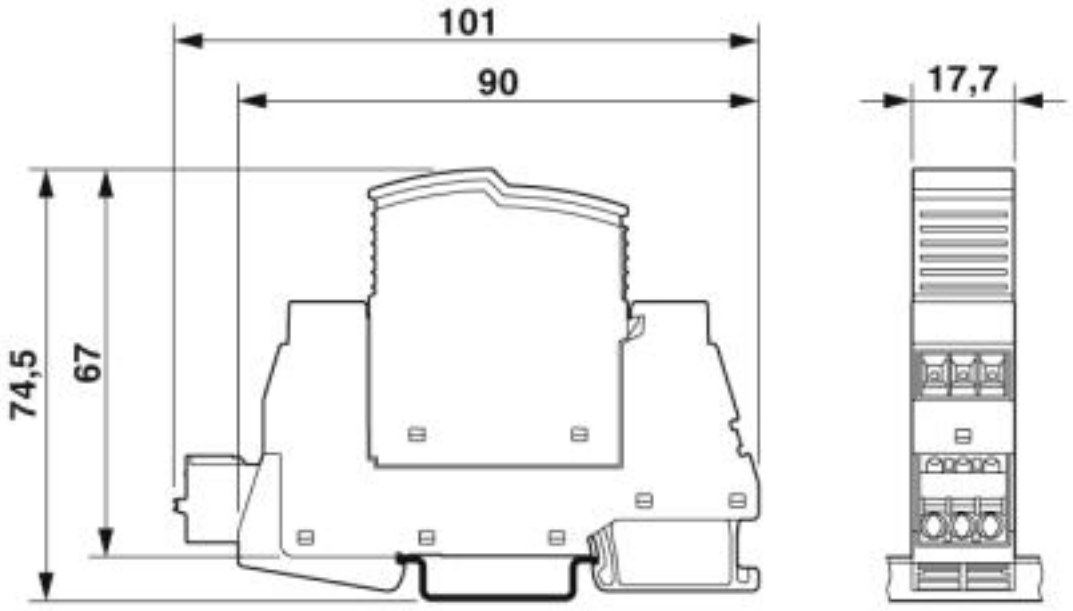
Drawings

Diagram



Nominal current depending on ambient temperature

Dimensional drawing



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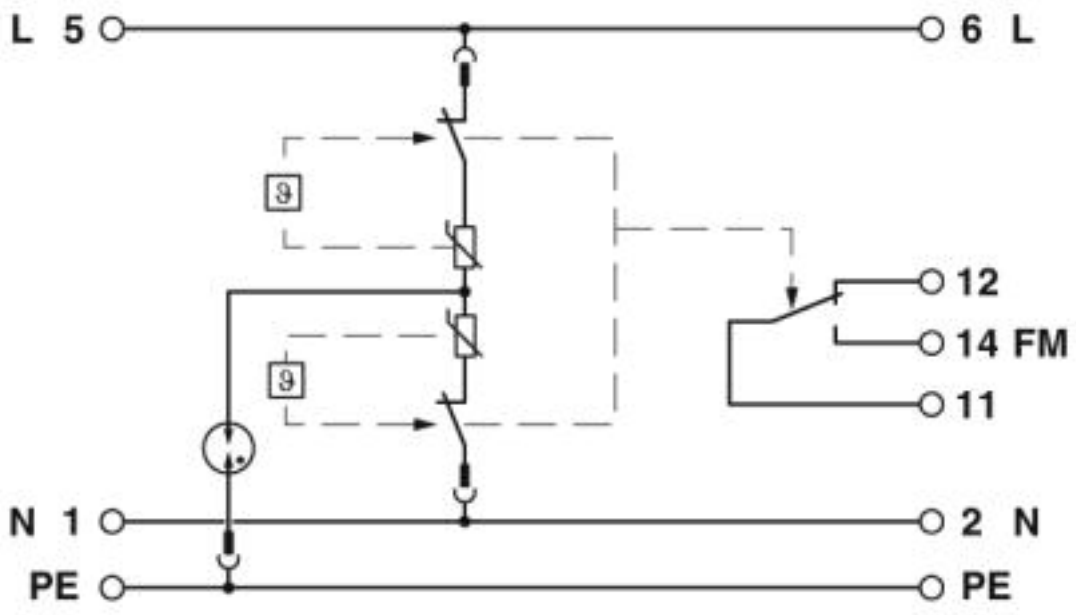
Circuit diagram



Approvals

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DNV GL / CCA / KEMA-KEUR / IECEE CB Scheme / EAC

Ex Approvals

Approval details

DNV GL		https://approvalfinder.dnvgl.com/	TAE00002U7
CCA			NTR-NL 7676
KEMA-KEUR		http://www.dekra-certification.com	71-103027
IECEE CB Scheme		http://www.iecee.org/	NL-51083

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Approvals

EAC	EAC	RU C-DE.A*30.B01561

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