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Pluggable device protection, according to type 3/class III, for 1-phase power supply networks with separate N and PE (3-conductor system: L1, N, PE), with integrated surge-proof fuse and remote indication contact. Also suitable for DC applications.

Commercial data

Item number	2905229
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	CL19
Product key	CL14A1
GTIN	4046356939881
Weight per piece (including packing)	91.1 g
Weight per piece (excluding packing)	73.33 g
Customs tariff number	85363030
Country of origin	DE

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



2905229

<https://www.phoenixcontact.com/us/products/2905229>

Technical data

Product properties

Product type	Device protection
Product family	SEC Family
IEC power supply system	TT
	TN-S
Type	DIN rail module, two-section, divisible
Number of positions	2
Surge protection fault message	Optical, remote indicator contact

Insulation characteristics

Overvoltage category	III
Pollution degree	2
IEC test classification	III
	T3
EN type	T3
Number of ports	One

Electrical properties

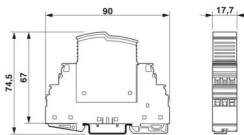
Indicator/remote signaling

Connection name	Remote fault indicator contact
Switching function	N/C contact
Operating voltage	250 V AC
	125 V DC (200 mA DC)
Operating current	3 A AC
	1 A DC (30 V DC)

Connection data

Connection method	Screw connection
Screw thread	M3
Tightening torque	0.8 Nm
Conductor cross-section flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross-section rigid	0.2 mm ² ... 4 mm ²
Conductor cross-section AWG	24 ... 12

Dimensions

Dimensional drawing	
Width	17.7 mm

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Height	90 mm
Depth	74.5 mm (incl. DIN rail 7.5 mm)
Horizontal pitch	1 HP

Material specifications

Flammability rating according to UL 94	V-0
CTI value of material	600
Insulating material	PA 6.6-FR 20% GF PA 6.6-FR
Material group	I
Housing material	PA 6.6-FR 20 % GF PA 6.6-FR

Protective circuit

Mode of protection	L-N
	L-PE
	N-PE
	(L+) - (L-)
	(L+/L-) - PE
Direction of action	1L-N & N-PE
Nominal voltage U_N	230 V AC (TN-S)
	230 V AC (TT - only in use with RCD)
Nominal frequency f_N	50 Hz (60 Hz)
Maximum continuous operating voltage U_C	264 V AC
	230 V DC
Rated load current I_L	26 A (30 °C)
Protective conductor current I_{PE}	$\leq 5 \mu A$
Standby power consumption P_C	$\leq 275 \text{ mVA (at } U_{REF})$
	$\leq 300 \text{ mVA (at } U_C)$
Reference test voltage U_{REF}	255 V AC
Nominal discharge current I_n (8/20) μs	3 kA
Combination wave U_{OC}	6 kV
Voltage protection level U_p (L-N)	$\leq 1.35 \text{ kV}$
Voltage protection level U_p (L-PE)	$\leq 1.5 \text{ kV}$
Voltage protection level U_p (N-PE)	$\leq 1.5 \text{ kV}$
TOV behavior at U_T (L-N)	440 V AC (5 s / withstand mode)
	440 V AC (120 min / withstand mode)
TOV behavior at U_T (L-PE)	440 V AC (5 s / withstand mode)
	440 V AC (120 min / withstand mode)
	1455 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)	$\leq 25 \text{ ns}$
Response time t_A (L-PE)	$\leq 100 \text{ ns}$
Response time t_A (N-PE)	$\leq 100 \text{ ns}$

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Short-circuit current rating I_{SCCR}	1.5 kA AC
	0.25 kA DC
Maximum backup fuse for through wiring	25 A (gG / B / C)
Max. backup fuse with branch wiring	not required

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)	30g (Half-sine / 11 ms / 3x ±X, ±Y, ±Z)
Vibration (operation)	5g (10 Hz ... 150 Hz / 20 cycles/axis / X, Y, Z)

Approvals

UL specifications

Maximum continuous operating voltage MCOV	255 V AC
	230 V DC
Nominal discharge current I_n	3 kA
Mode of protection	L-N
	L-G
	N-G
	(L+) - (L-)
	(L+) - G
	(L-) - G
Nominal voltage	230 V DC
Rated load current I_L	25 A
Power distribution system	Single phase
Nominal frequency	50/60 Hz
Measured limiting voltage MLV (L-N)	1290 V
Measured limiting voltage MLV (L-G)	1310 V
Measured limiting voltage MLV (N-G)	1310 V
Measured limiting voltage MLV (L+) - (L-)	1290 V
Measured limiting voltage MLV (L+) - G	1310 V
Measured limiting voltage MLV (L-) - G	1310 V
SPD Type	4CA

UL connection data

Tightening torque	5 lb _f -in. ... 7 lb _f -in.
Conductor cross-section AWG	14 ... 12

Standards and regulations

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

Standards/specifications	EN 61643-11
Note	2012

Mounting

Mounting type	DIN rail: 35 mm
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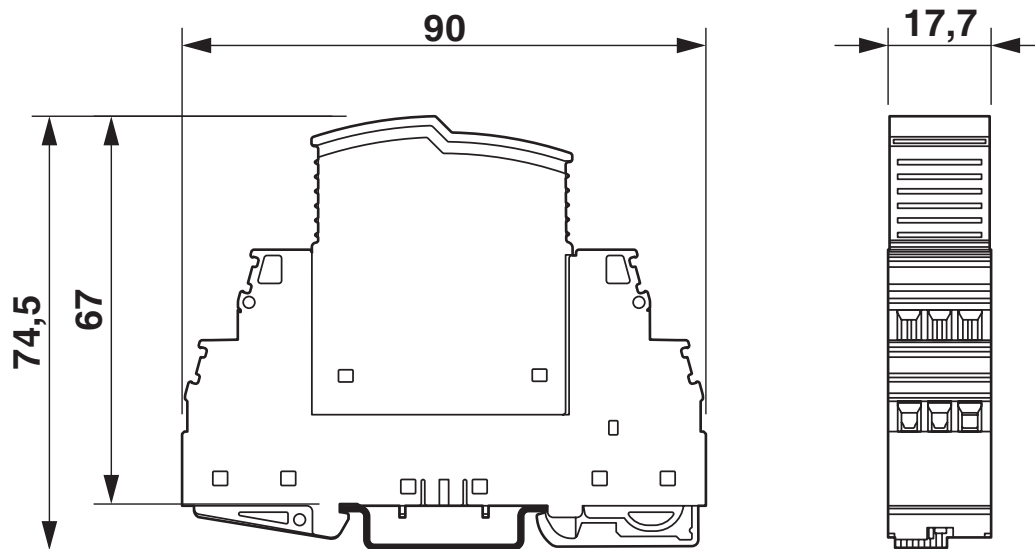


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Drawings

Dimensional drawing



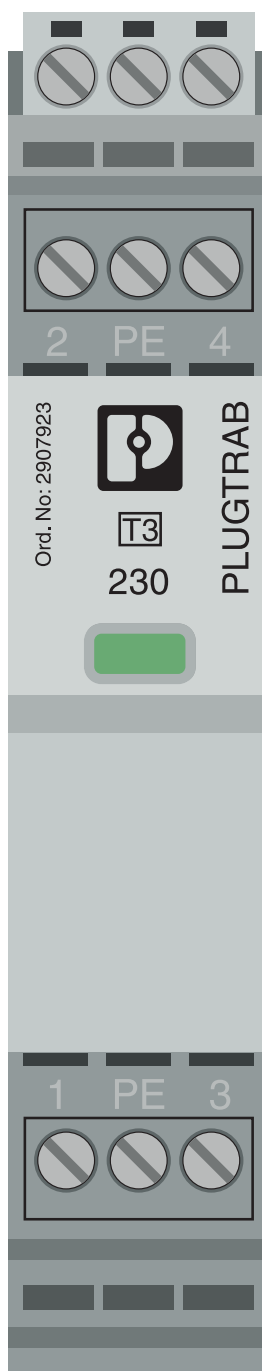
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Product drawing

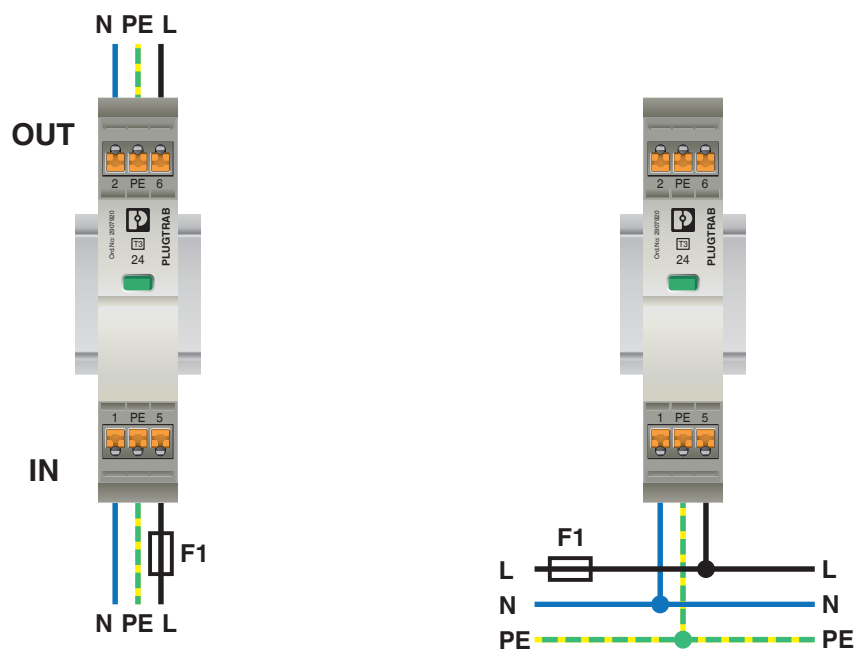


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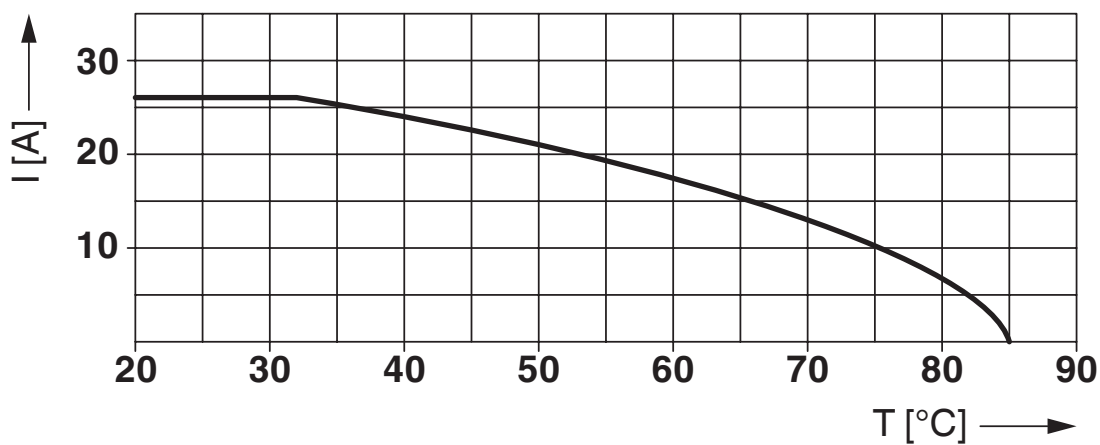
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Application drawing



Diagram



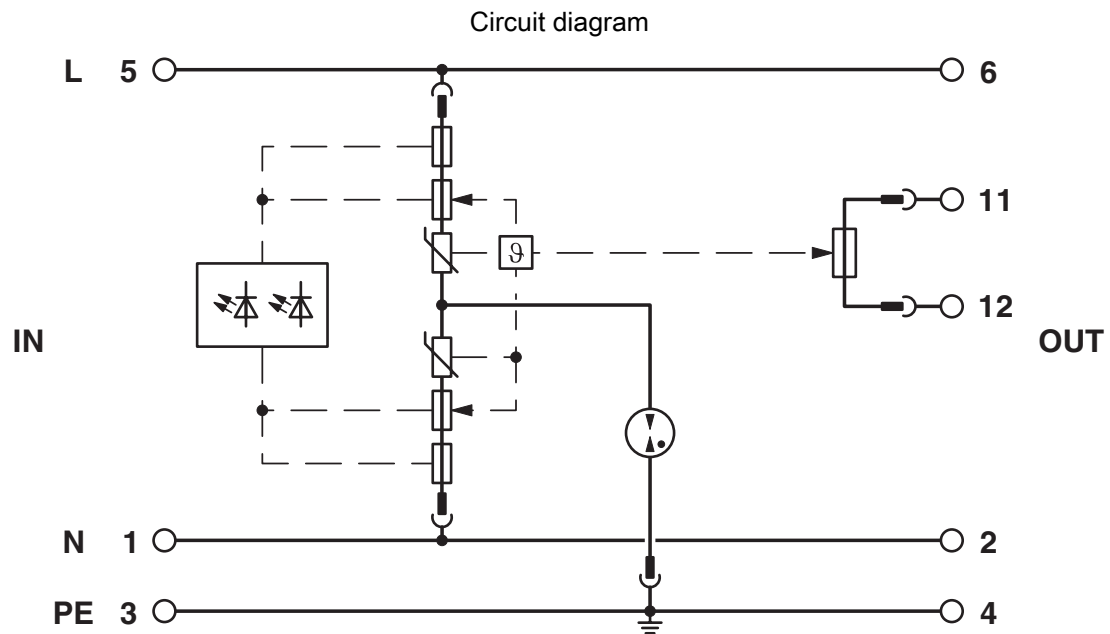
Nominal current depending on ambient temperature

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Classifications

UNSPSC

UNSPSC 21.0	39121620
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
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