

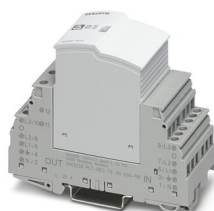
PLT-SEC-T3-3S-230-FM - Type 3 surge protection device



2905230

<https://www.phoenixcontact.com/us/products/2905230>

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Plug-in device protection, according to type 3/class III, for 3-phase power supply networks with separate N and PE (5-conductor system: L1, L2, L3, N, PE), with integrated surge-proof fuse and remote indication contact.

Your advantages

- Surge protection family for universal use with optimum energy coordination from the lightning current arrester to the device protection
- Easy to maintain due to consistently pluggable protection modules
- Excellent level of information provided by mechanical/visual status indicator and remote indication contact
- Optimal additional protection of the industrial power supply for a longer service life and increased availability of the system

Commercial data

Item number	2905230
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL19
Product key	CL14A1
Catalog page	Page 82 (C-4-2019)
GTIN	4046356939706
Weight per piece (including packing)	156.3 g
Weight per piece (excluding packing)	156.3 g
Customs tariff number	85363090
Country of origin	DE

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Technical data

Product properties

IEC power supply system	TN-S
	TT
Type	DIN rail module, two-section, divisible
Product type	Device protection
Product family	SEC Family
Number of positions	4
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

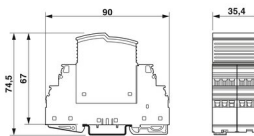
Indicator/remote signaling

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	35.4 mm

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Height	90 mm
Depth	74.5 mm (incl. DIN rail 7.5 mm)
Horizontal pitch	2 Div.

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
Direction of action	3L-N & N-PE
Nominal voltage U_N	230/400 V AC (TN-S) 230/400 V AC (TT - only in use with RCD)
Nominal frequency f_N	50 Hz (60 Hz)
Maximum continuous voltage U_C	264 V AC
Rated load current I_L	26 A (30 °C)
Residual current I_{PE}	$\leq 5 \mu A$
Standby power consumption P_C	$\leq 2 VA$ (at U_{REF}) $\leq 2.2 VA$ (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)	$\leq 1.4 kV$
Voltage protection level U_p (L-PE)	$\leq 1.5 kV$
Voltage protection level U_p (N-PE)	$\leq 1.5 kV$
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)	$\leq 25 ns$
Response time t_A (L-PE)	$\leq 100 ns$
Response time t_A (N-PE)	$\leq 100 ns$
Short-circuit current rating I_{SCCR}	1.5 kA AC
Max. backup fuse with branch wiring	not required

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Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 70 °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 ... 150 Hz/20 cycles/axis/X, Y, Z)

Standards and regulations

Standards/specifications	IEC 61643-11
Note	2011

EN 61643-11

Standards/specifications	EN 61643-11
Note	2012

Mounting

Mounting type	DIN rail: 35 mm
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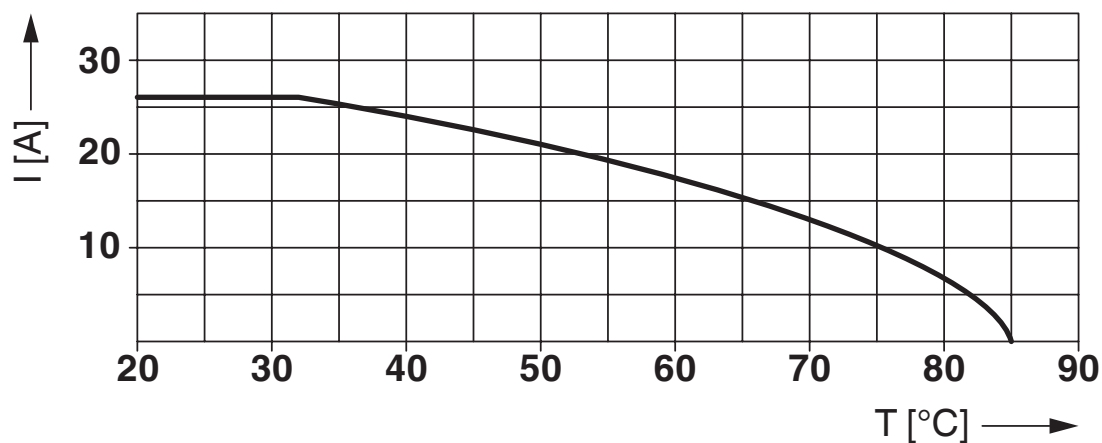


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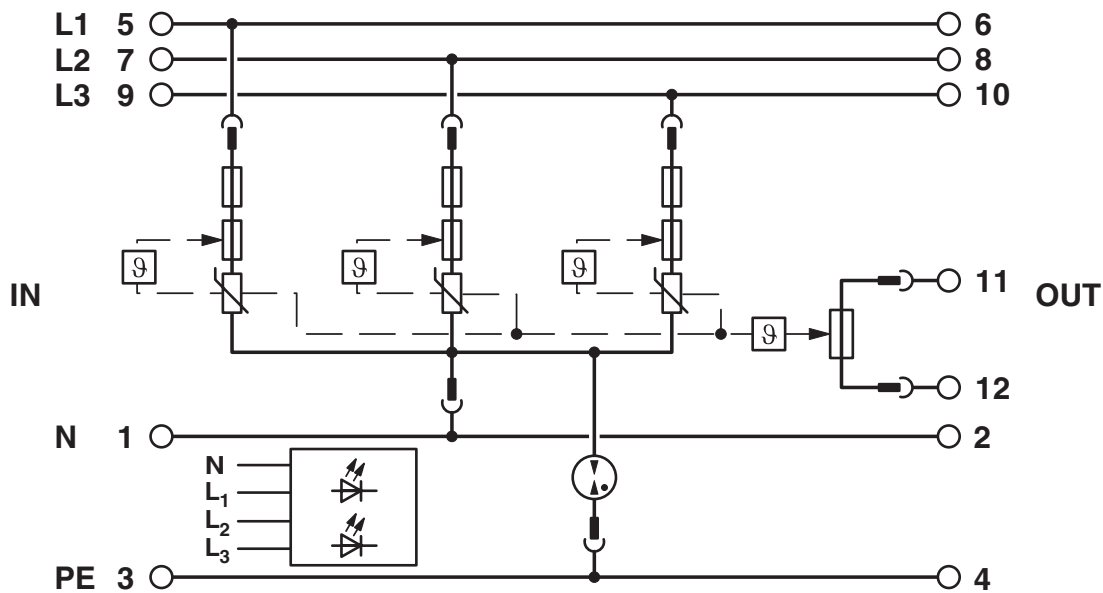
Drawings

Diagram



Nominal current depending on ambient temperature

Circuit diagram



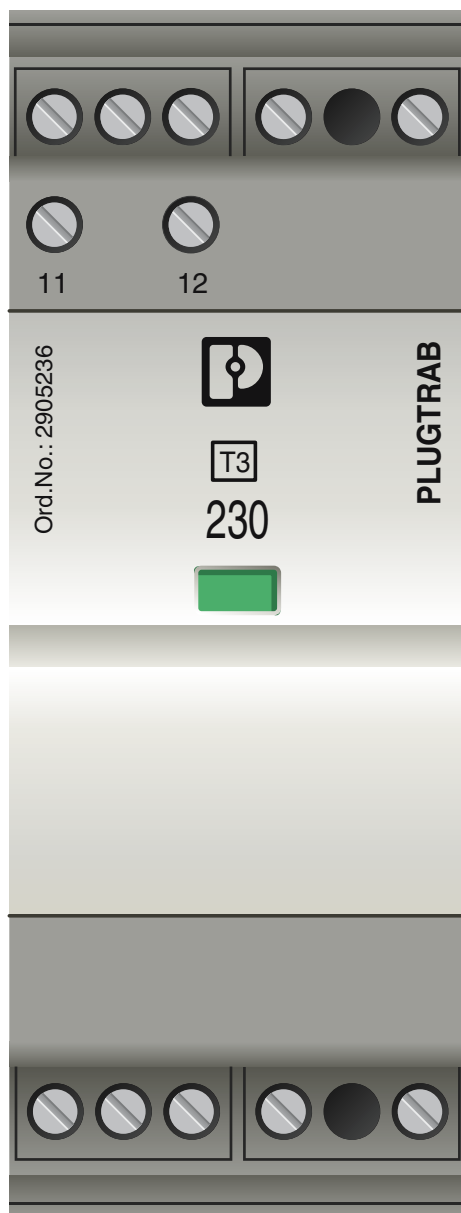
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Product drawing



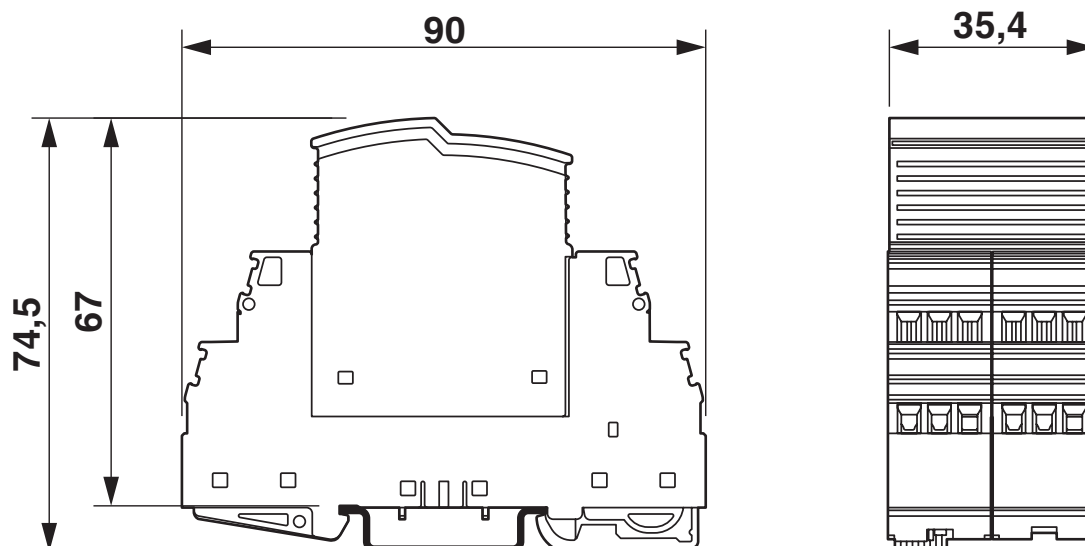
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Dimensional drawing



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Approvals

📄 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2905230>



EAC

Approval ID: RU C-DE.*09.B.00169

UAE-RoHS

Approval ID: 22-09-50640

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Classifications

ECLASS

ECLASS-11.0	27130806
ECLASS-13.0	27171203

ETIM

ETIM 8.0	EC000942
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UNSPSC

UNSPSC 21.0	39121600
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Environmental product compliance

REACH SVHC	Lead 7439-92-1
	Dechlorane Plus
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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Accessories

CLIPFIX 35 - End clamp

3022218

<https://www.phoenixcontact.com/us/products/3022218>



Quick mounting end clamp for NS 35/7,5 DIN rail or NS 35/15 DIN rail, with marking option, width: 9.5 mm, color: gray

EML (20XE)R - Label

0803452

<https://www.phoenixcontact.com/us/products/0803452>



Label, Roll, white, unlabeled, can be labeled with: THERMOMARK E.300 (D)/600 (D), THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: adhesive, lettering field size: continuous x 20 mm

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EML (20XE)R YE - Label

0803453

<https://www.phoenixcontact.com/us/products/0803453>



Label, Roll, yellow, unlabeled, can be labeled with: THERMOMARK E.300 (D)/600 (D), THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: adhesive, lettering field size: continuous x 20 mm

X-PEN 0,35 - Marker pen

0811228

<https://www.phoenixcontact.com/us/products/0811228>



Marker pen without ink cartridge, for manual labeling of markers, labeling extremely wipe-proof, line thickness 0.35 mm

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SZS 0,6X3,5 VDE - Screwdriver

1212602

<https://www.phoenixcontact.com/us/products/1212602>



Screwdriver, slot-headed, VDE insulated, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip

PLT-SEC-T3-3S-230-P - Type 3 surge protection plug

2905236

<https://www.phoenixcontact.com/us/products/2905236>



Replacement plug for type 3 device protection from the PLUGTRAB SEC T3 3S product range. 230 V nominal voltage.

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