

PLT-T3-24-FM - Type 3 surge protection device



2906486

<https://www.phoenixcontact.com/us/products/2906486>

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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 remote indication contact.

Commercial data

Item number	2906486
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	CLP311
GTIN	4055626082097
Weight per piece (including packing)	78.6 g
Weight per piece (excluding packing)	66.2 g
Country of origin	DE

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Technical data

Notes

General

Note	PLT-T3-24-FM must not be used in DC applications with grounded positive pole.
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Product properties

Product type	Device protection
IEC power supply system	TT
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

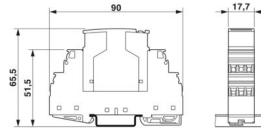
PLT-T3-24-FM - Type 3 surge protection device



2906486

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Dimensional drawing



Width	17.7 mm
Height	90 mm
Depth	65.5 mm
Horizontal pitch	1 Div.

Material specifications

Flammability rating according to UL 94	V-0
CTI value of material	600
Insulating material	PA 6.6
Housing material	PA 6.6

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	24 V AC (TN-S)
Nominal frequency f_N	50 Hz (60 Hz)
Maximum continuous voltage U_C	34 V AC
	44 V DC
Rated load current I_L	16 A AC (at 63 °C)
	10 A DC
Residual current I_{PE}	$\leq 5 \mu A$
Standby power consumption P_C	$\leq 60.00 \text{ mVA}$
Reference test voltage U_{REF}	27 V AC
Nominal discharge current I_n (8/20) μs	1 kA
Combination wave U_{OC}	2 kV
Voltage protection level U_p (L-N)	$\leq 0.18 \text{ kV}$
Voltage protection level U_p (L-PE)	$\leq 0.55 \text{ kV}$
Voltage protection level U_p (N-PE)	$\leq 0.55 \text{ kV}$
Residual voltage at I_{amax} , (L-N)	$\leq 0.18 \text{ kV}$ (at I_n)
Residual voltage at I_{amax} , (L-PE)	$\leq 0.12 \text{ kV}$ (at I_n)
Residual voltage at I_{amax} , (PE)	$\leq 0.12 \text{ kV}$ (at I_n)
TOV behavior at U_T (L-N)	36 V AC (5 s / withstand mode)
TOV behavior at U_T (L-PE)	42 V AC (5 s / withstand mode)
Response time t_A (L-N)	$\leq 25 \text{ ns}$
Response time t_A (L-PE)	$\leq 100 \text{ ns}$

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2906486

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Response time t_A (N-PE)	≤ 100 ns
Short-circuit current rating I_{SCCR}	1.5 kA AC
	1 kA DC
Max. backup fuse with branch wiring	16 A AC (B)
	10 A DC (gG)
	10 A DC (B)

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 %

Approvals

UL specifications

Maximum continuous operating voltage MCOV	34 V AC
	34 V DC
Nominal discharge current I_n	1 kA
Mode of protection	L-N
	L-G
	N-G
	(L+) - (L-)
	(L+) - G
	(L-) - G
Nominal voltage	24 V DC
Rated load current I_L	20 A
Power distribution system	Single phase
Nominal frequency	50/60 Hz
Measured limiting voltage MLV (L-N)	330 V
Measured limiting voltage MLV (L-G)	600 V
Measured limiting voltage MLV (N-G)	600 V
Measured limiting voltage MLV (L+) - (L-)	330 V
Measured limiting voltage MLV (L+) - G	600 V
Measured limiting voltage MLV (L-) - G	600 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	EN 61643-11
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2906486

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Note	2012
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Mounting

Mounting type	DIN rail: 35 mm
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PLT-T3-24-FM - Type 3 surge protection device

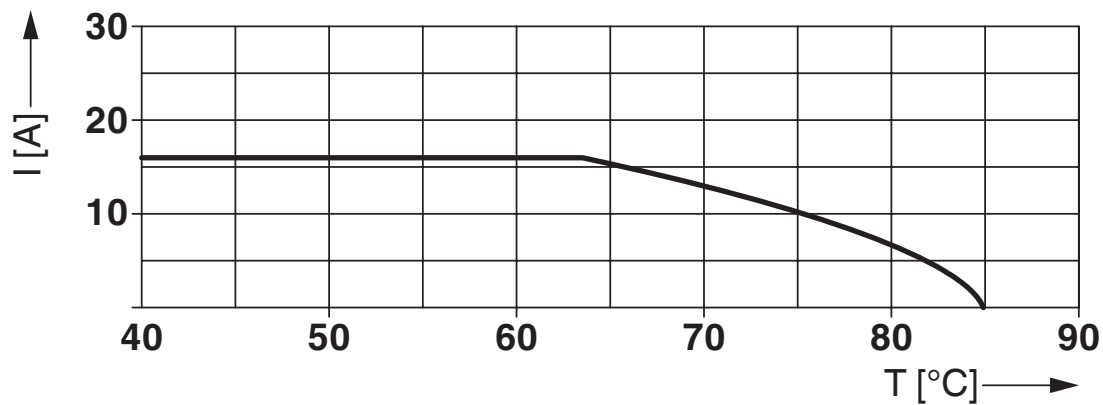


2906486

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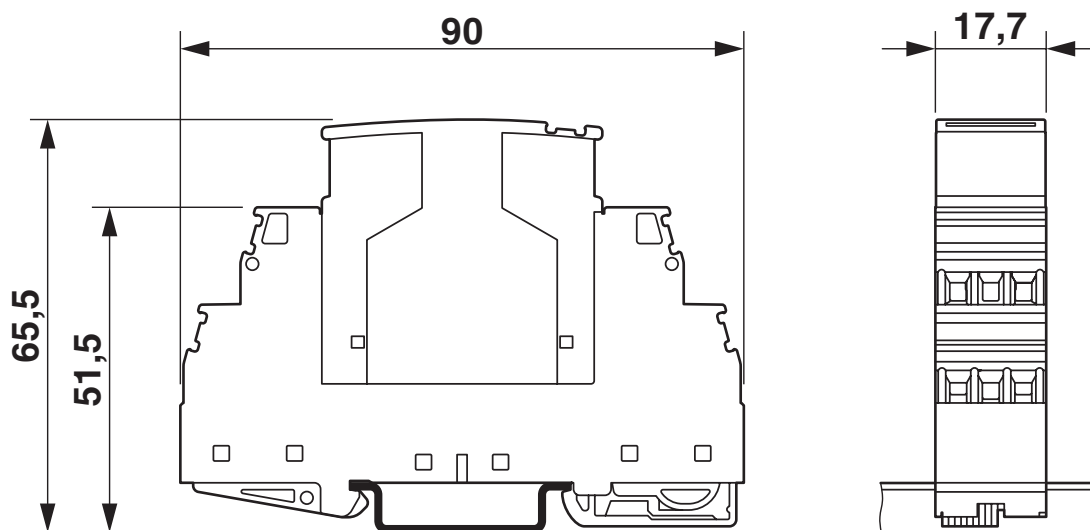
Drawings

Diagram



Nominal current depending on ambient temperature

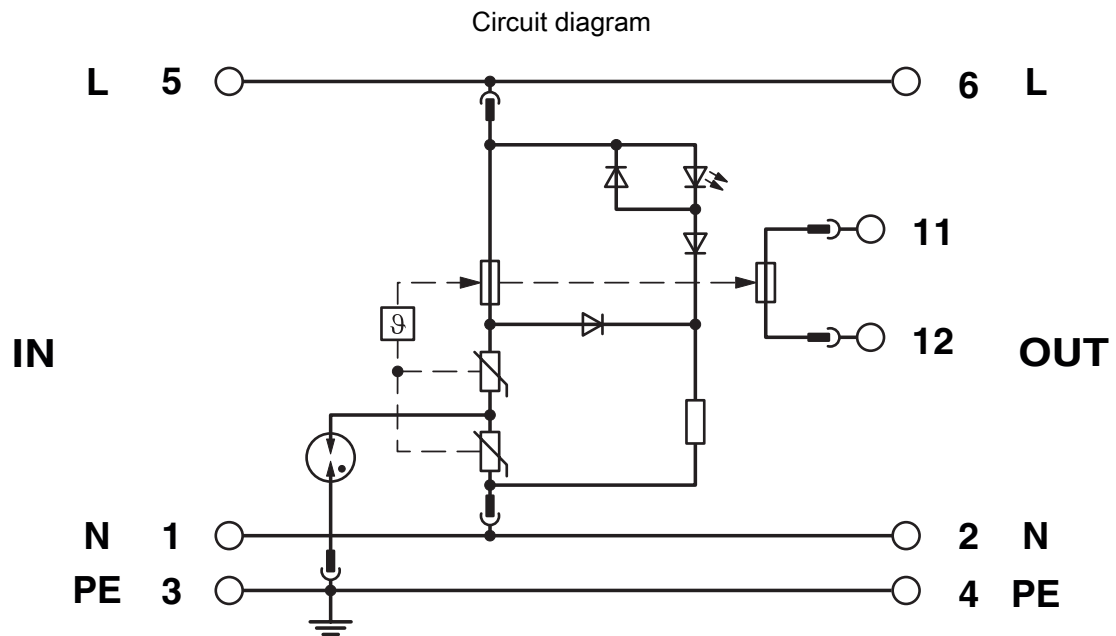
Dimensional drawing



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<https://www.phoenixcontact.com/us/products/2906486>



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Environmental product compliance

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.)	No substance above 0.1 wt%
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Accessories

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

ZBF 5:UNBEDRUCKT - Zack Marker strip, flat

0808642

<https://www.phoenixcontact.com/us/products/0808642>



Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 5 mm, lettering field size: 5.1 x 5.2 mm, Number of individual labels: 10

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ZBF 5/WH-100:UNBEDRUCKT - Zack Marker strip, flat

0808668

<https://www.phoenixcontact.com/us/products/0808668>



Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, PLOTMARK, mounting type: snapped, for terminal block width: 5 mm, lettering field size: 5.15 x 5.15 mm, Number of individual labels: 1000

ZBF 5,LGS:FORTL.ZAHLEN - Zack Marker strip, flat

0808671

<https://www.phoenixcontact.com/us/products/0808671>



Zack Marker strip, flat, Strip, white, labeled, printed horizontally: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 491 ... 500, mounting type: snapped, for terminal block width: 5 mm, lettering field size: 5.15 x 5.15 mm, Number of individual labels: 10

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ZBF 5,LGS:GERADE ZAHLEN - Zack Marker strip, flat

0810821

<https://www.phoenixcontact.com/us/products/0810821>



Zack Marker strip, flat, Strip, white, labeled, printed horizontally: consecutive even numbers 2 ... 20, 22 ... 40, etc. up to 82 ... 100, mounting type: snapped, for terminal block width: 5 mm, lettering field size: 5.15 x 5.15 mm, Number of individual labels: 10

ZBF 5,LGS:UNGERADE ZAHLEN - Zack Marker strip, flat

0810863

<https://www.phoenixcontact.com/us/products/0810863>



Zack Marker strip, flat, Strip, white, labeled, printed horizontally: Odd numbers 1 - 19, 21 - 39, etc. up to 81 - 99, mounting type: snapped, for terminal block width: 5 mm, lettering field size: 5.15 x 5.15 mm, Number of individual labels: 10

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2906486

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ZBF 5,QR:FORTL.ZAHLEN - Zack Marker strip, flat

0808697

<https://www.phoenixcontact.com/us/products/0808697>



Zack Marker strip, flat, Strip, white, labeled, Printed vertically: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... 100, mounting type: snapped, for terminal block width: 5 mm, lettering field size: 5.15 x 5.15 mm, Number of individual labels: 10

ZBN 18:UNBEDRUCKT - Zack marker strip

2809128

<https://www.phoenixcontact.com/us/products/2809128>



Zack marker strip, Strip, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, PLOTMARK, mounting type: snapped, for terminal block width: 18 mm, lettering field size: 18 x 5 mm, Number of individual labels: 5

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SSA 3-6 - Shield connection

2839295

<https://www.phoenixcontact.com/us/products/2839295>

Shield fast connection for 3 ... 6 mm cable diameter. Potential connecting cable:
200 mm, 1 mm², color: black



SSA 5-10 - Shield connection

2839512

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Shield fast connection for 5 ... 10 mm cable diameter. Potential connecting cable:
200 mm, 1 mm², color: black



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PLT-T3-24-P - Type 3 surge protection plug

2906492

<https://www.phoenixcontact.com/us/products/2906492>



Replacement plug for type 3 device protection from the PLUGTRAB T3 product range. 24 V nominal voltage.

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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com