

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (http://phoenixcontact.com/download)



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.

The illustration shows version PLT-SEC-T3-230-FM

### Why buy this product

- ✓ Varistor-based device protection
- ☑ Can be used without separate backup fuse thanks to integrated overcurrent protection
- ✓ Pluggable
- Optical status indicator via LED
- With floating remote indication contact
- ☑ Plugs can be checked with CHECKMASTER 2



### **Key Commercial Data**

Packing unit	1 STK
GTIN	4 046356 939690
GTIN	4046356939690
Weight per Piece (excluding packing)	91.600 g
Custom tariff number	85363030
Country of origin	Germany

### Technical data

#### **Dimensions**

Height	90 mm
Width	17.7 mm



## Technical data

### **Dimensions**

Depth	74.5 mm
Horizontal pitch	1 Div.

### 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 (above mean sea level))
Permissible humidity (operation)	5 % 95 %
Shock (operation)	30g (half sinus / 11 ms / 3x ±X, ±Y, ±Z)
Vibration (operation)	5g (10 150 Hz/20 cycles/axis/X, Y, Z)

### General

IEC test classification	III
	T3
EN type	Т3
Number of ports	One
Mode of protection	L-N
	L-PE
	N-PE
	(L+) - (L-)
	(L+/L-) - 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
Туре	DIN rail module, two-section, divisible
Number of positions	2
Surge protection fault message	Optical, remote indicator contact

### Protective circuit

Nominal voltage U <sub>N</sub>	120 V AC (TN-S)
	120 V AC (TT - only in use with RCD)
Nominal frequency f <sub>N</sub>	50 Hz (60 Hz)
Maximum continuous voltage U <sub>C</sub>	150 V AC
	150 V DC



## Technical data

### Protective circuit

Rated load current I <sub>L</sub>	26 A (30 °C)
Residual current I <sub>PE</sub>	≤ 5 μA
Nominal discharge current I <sub>n</sub> (8/20) µs	3 kA
Standby power consumption P <sub>C</sub>	≤ 150 mVA (at U <sub>REF</sub> )
	$\leq$ 175 mVA (at U <sub>C</sub> )
Reference test voltage U <sub>REF</sub>	132 V AC
Combination wave U <sub>OC</sub>	6 kV
Voltage protection level U <sub>p</sub> (L-N)	≤ 0.85 kV
Voltage protection level U <sub>p</sub> (L-PE)	≤ 0.95 kV
Voltage protection level U <sub>p</sub> (N-PE)	≤ 0.95 kV
TOV behavior at U <sub>T</sub> (L-N)	240 V AC (5 s / withstand mode)
	240 V AC (120 min / withstand mode)
TOV behavior at $U_T$ (L-PE)	240 V AC (5 s / withstand mode)
	240 V AC (120 min / withstand mode)
	1332 V AC (200 ms / safe failure mode)
TOV behavior at U <sub>⊤</sub> (N-PE)	1200 V AC (200 ms / safe failure mode)
Response time t <sub>A</sub> (L-N)	≤ 25 ns
Response time t <sub>A</sub> (L-PE)	≤ 100 ns
Response time t <sub>A</sub> (N-PE)	≤ 100 ns
Short-circuit current rating I <sub>SCCR</sub>	1.5 kA AC
	0.25 kA DC
Max. backup fuse with branch wiring	not required
Maximum backup fuse for through wiring	25 A (gG / B / C)

### Indicator/remote signaling

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 method	Screw 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
Screw thread	M3
Tightening torque	0.8 Nm
Stripping length	8 mm



### Technical data

### Connection data

Connection method	Screw 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
Screw thread	M3
Tightening torque	0.8 Nm
Stripping length	8 mm

### **UL** specifications

SPD Type	4CA
Maximum continuous operating voltage MCOV	150 V AC
	150 V DC
Nominal voltage	120 V DC
Rated load current I <sub>L</sub>	25 A
Mode of protection	L-N
	L-G
	N-G
	(L+) - (L-)
	(L+) - G
	(L-) - G
Power distribution system	1
Nominal frequency	50/60 Hz
Measured limiting voltage MLV (L-N)	780 V
Measured limiting voltage MLV (L-G)	760 V
Measured limiting voltage MLV (N-G)	760 V
Measured limiting voltage MLV (L+) - (L-)	780 V
Measured limiting voltage MLV (L+) - G	760 V
Measured limiting voltage MLV (L-) - G	760 V
Nominal discharge current I <sub>n</sub>	3 kA

### UL indicator/remote signaling

Tightening torque	5 lb <sub>r</sub> in 7 lb <sub>r</sub> in.
Conductor cross section AWG	14 12

### UL connection data

Conductor cross section AWG	14 12
Tightening torque	5 lb <sub>r</sub> -in 7 lb <sub>r</sub> -in.

### Standards and Regulations



### Technical data

### Standards and Regulations

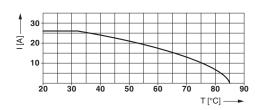
Standards/specifications	EN 61643-11 2012
--------------------------	------------------

### **Environmental Product Compliance**

China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

### **Drawings**

Diagram

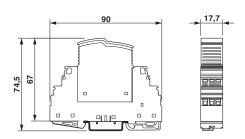


Nominal current depending on ambient temperature

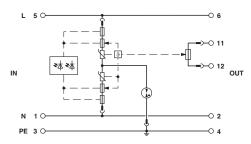
Product drawing



### Dimensional drawing



### Circuit diagram



Phoenix Contact 2017 @ - all rights reserved http://www.phoenixcontact.com