

# Type 3 surge protection plug - PLT-SEC-T3-24-P-UT/PT - 2907920


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Replacement plug for type 3 surge protection from the PLT-SEC-...-UT/PT product series. Nominal voltage 24 V.



## Key Commercial Data

Packing unit	10 pc
GTIN	 4 0 5 5 6 2 6 2 5 7 4 6 4
GTIN	4055626257464

## Technical data

### Dimensions

Height	46.7 mm
Width	17.5 mm
Depth	65.7 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	≤ 6000 m (amsl (above mean sea level))
Permissible humidity (operation)	5 % ... 95 %
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	T3
IEC power supply system	TN-S
Number of ports	One

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### Technical data

#### General

Mode of protection	L-N
	L-PE
	N-PE
Mounting type	on base element
Color	light grey RAL 7035
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	Male
Number of positions	2
Surge protection fault message	optical

#### Protective circuit

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
Residual current $I_{PE}$	$\leq 5 \mu\text{A}$
Nominal discharge current $I_n$ (8/20) $\mu\text{s}$	1 kA
Standby power consumption $P_C$	$\leq 2.7 \text{ mVA}$ (at $U_{REF}$ )
	$\leq 4.8 \text{ mVA}$ (at $U_C$ )
Reference test voltage $U_{REF}$	27 V AC
Combination wave $U_{OC}$	2 kV
Voltage protection level $U_p$ (L-N)	$\leq 0.2 \text{ kV}$
Voltage protection level $U_p$ (L-PE)	$\leq 0.6 \text{ kV}$
Voltage protection level $U_p$ (N-PE)	$\leq 0.6 \text{ kV}$
TOV behavior at $U_T$ (L-N)	50 V AC (120 min / safe failure mode)
TOV behavior at $U_T$ (L-PE)	50 V AC (120 min / withstand 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)	$\leq 100 \text{ ns}$
Short-circuit current rating $I_{SCCR}$	10 kA AC
Max. backup fuse with branch wiring	32 A (gG / B / C)

#### Additional technical data

Short-circuit current rating $I_{SCCR}$	0.25 kA DC (Without additional backup fuse in the DC branch wiring)
	5 kA DC (for 20 A gG / B backup fuse)
Maximum discharge current $I_{max}$ (8/20) $\mu\text{s}$	4 kA
Nominal discharge current $I_n$ (8/20) $\mu\text{s}$	3 kA
Maximum continuous voltage $U_C$	44 V DC
Residual voltage $U_{res}$ (L-N)	$\leq 0.16 \text{ kV}$ (at 0.5 kA)

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### Additional technical data

	≤ 0.2 kV (at 1 kA)
Residual voltage $U_{res}$ (L-PE)	≤ 0.35 kV (at 0.5 kA)
	≤ 0.4 kV (at 1 kA)
Residual voltage $U_{res}$ (N-PE)	≤ 0.35 kV (at 0.5 kA)
	≤ 0.4 kV (at 1 kA)
Voltage protection level $U_p$ (L-N)	0.25 kV (at 3 kA)
Voltage protection level $U_p$ (L-PE)	0.6 kV (at 3 kA)
Voltage protection level $U_p$ (N-PE)	0.6 kV (at 3 kA)
Mode of protection	(DC+) - (DC-)
	(DC+/DC-) - PE

### Connection data

Connection method	pluggable
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### UL specifications

SPD Type	4CA
Maximum continuous operating voltage MCOV	34 V AC
	34 V DC
Nominal voltage	34 V DC
Mode of protection	L-N
	L-G
	N-G
	(DC+) - (DC-)
	(DC+) - G
	(DC-) - G
Power distribution system	Single phase
	DC
Nominal frequency	50/60 Hz
Measured limiting voltage MLV (L-N)	200 V
Measured limiting voltage MLV (L-G)	510 V
Measured limiting voltage MLV (N-G)	510 V
Nominal discharge current $I_n$	1 kA

### Standards and Regulations

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

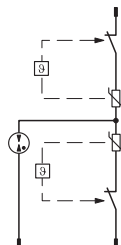
### Environmental Product Compliance

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

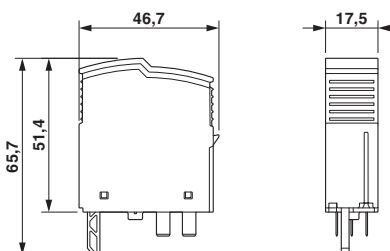
## Drawings

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Circuit diagram



Dimensional drawing



## Classifications

### eCl@ss

eCl@ss 10.0.1	27130890
eCl@ss 11.0	27130890
eCl@ss 6.0	27130800
eCl@ss 7.0	27130890
eCl@ss 9.0	27130890

### ETIM

ETIM 6.0	EC002497
ETIM 7.0	EC002497

## Approvals

### Approvals

#### Approvals

DNV GL / CCA / UL Recognized / KEMA-KEUR / cUL Recognized / IECCE CB Scheme / EAC / cULus Recognized

#### Ex Approvals

UL Recognized / cUL Recognized / cULus Recognized

### Approval details

DNV GL		<a href="https://approvalfinder.dnvgl.com/">https://approvalfinder.dnvgl.com/</a>	TAE00002U7
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CCA			NTR-NL 7676
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UL Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 330181
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### Approvals

KEMA-KEUR		<a href="http://www.dekra-certification.com">http://www.dekra-certification.com</a>	71-103027
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cUL Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 330181
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IECEE CB Scheme		<a href="http://www.iecee.org/">http://www.iecee.org/</a>	NL-51083
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EAC			RU C- DE.*09.B.00169
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cULus Recognized			
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