

# Type 3 surge protection plug - PLT-SEC-T3-120-P-UT/PT - 2907922


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Replacement plug for type 2/3 surge protection from the PLT-SEC-...-UT/PT product series. Nominal voltage 120 V.



## Key Commercial Data

Packing unit	10 pc
GTIN	 4 0 5 5 6 2 6 2 5 7 4 8 8
GTIN	4055626257488

## 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	T2 / T3
IEC power supply system	TN-S
	TT
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 $U_N$	120 V AC (TN-S)
	120 V AC (TT)
Nominal frequency $f_N$	50 Hz (60 Hz)
Maximum continuous voltage $U_C$	150 V AC
Residual current $I_{PE}$	$\leq 5 \mu A$
Nominal discharge current $I_n$ (8/20) $\mu s$	5 kA
Standby power consumption $P_C$	$\leq 10.6 \text{ mVA (at } U_{REF})$
	$\leq 13.5 \text{ mVA (at } U_C)$
Reference test voltage $U_{REF}$	132 V AC
Max. discharge current $I_{max}$ (8/20) $\mu s$	10 kA
Combination wave $U_{OC}$	6 kV
Voltage protection level $U_p$ (L-N)	$\leq 0.75 \text{ kV (at } U_{OC})$
	$\leq 0.95 \text{ kV (at } I_n)$
Voltage protection level $U_p$ (L-PE)	$\leq 0.85 \text{ kV}$
Voltage protection level $U_p$ (N-PE)	$\leq 0.85 \text{ kV}$
TOV behavior at $U_T$ (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 $U_T$ (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)	$\leq 100 \text{ ns}$
Short-circuit current rating $I_{SCCR}$	10 kA AC
Max. backup fuse with branch wiring	32 A (gG / B / C)

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## Technical data

### 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 continuous voltage $U_C$	150 V DC
Residual voltage $U_{res}$ (L-N)	$\leq 0.68$ kV (at 2 kA)
	$\leq 0.75$ kV (at 3 kA)
	$\leq 0.64$ kV (at $U_{OC} = 4$ kV)
Residual voltage $U_{res}$ (L-PE)	$\leq 0.58$ kV (at 2 kA)
	$\leq 0.65$ kV (at 3 kA)
	$\leq 0.75$ kV (at $U_{OC} = 4$ kV)
Residual voltage $U_{res}$ (N-PE)	$\leq 0.58$ kV (at 2 kA)
	$\leq 0.65$ kV (at 3 kA)
	$\leq 0.75$ kV (at $U_{OC} = 4$ kV)
Mode of protection	(DC+) - (DC-)
	(DC+/DC-) - PE
IEC test classification (in accordance with IEC 61643-21)	D1
Impulse durability (line-line)	D1 - 500 A
Impulse durability (line-earth)	D1 - 500 A
Pulse discharge current $I_{imp}$ (10/350) $\mu$ s (line-line)	0.5 kA
Pulse discharge current $I_{imp}$ (10/350) $\mu$ s (line-earth)	0.5 kA

### Connection data

Connection method	pluggable
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### UL specifications

SPD Type	2CA
Maximum continuous operating voltage MCOV	150 V AC
	150 V DC
Nominal voltage	150 V DC
Rated load current $I_L$	20 A
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
Voltage protection rating VPR (L-N)	800 V
Voltage protection rating VPR (L-G)	900 V
Voltage protection rating VPR (N-G)	900 V

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### Technical data

#### UL specifications

Nominal discharge current $I_n$	5 kA
Short-circuit current rating (SCCR)	10 kA AC
	5 kA DC

#### Standards and Regulations

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

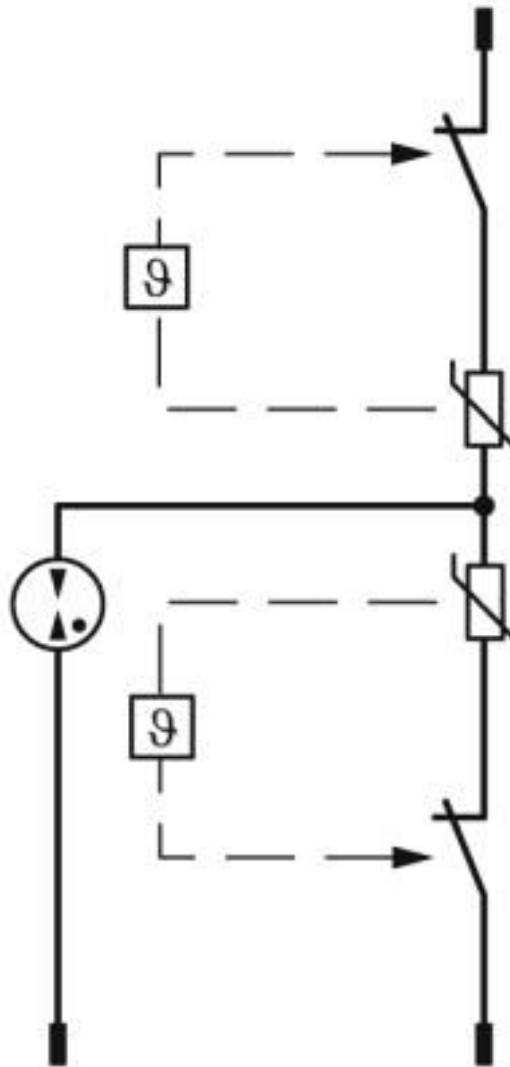
#### Environmental Product Compliance

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

### Drawings

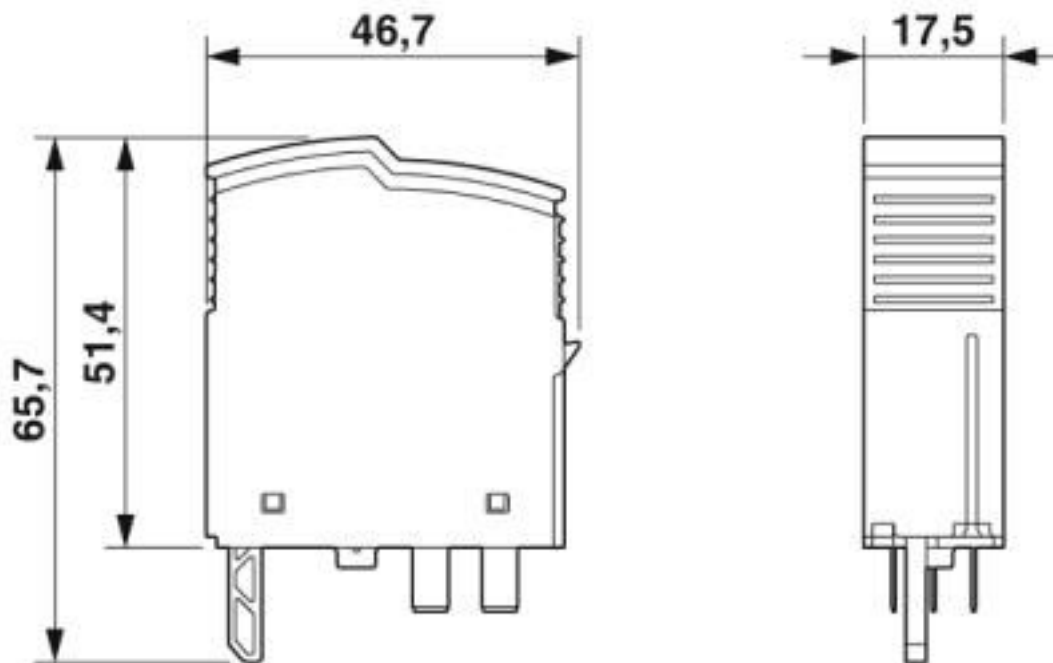
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Circuit diagram



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Dimensional drawing



## Classifications

eCl@ss

eCl@ss 10.0.1	27130890
eCl@ss 6.0	27130800
eCl@ss 7.0	27130890
eCl@ss 8.0	27130890
eCl@ss 9.0	27130890

ETIM

ETIM 5.0	EC002496
ETIM 6.0	EC002497
ETIM 7.0	EC002497

## Approvals

Approvals

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DNV GL / CCA / UL Recognized / KEMA-KEUR / cUL Recognized / IECCEB Scheme / EAC / CSA / cULus Recognized

Ex Approvals

UL Recognized / cUL Recognized / cULus Recognized

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## Approvals

### Approval details

DNV GL		<a href="https://approvalfinder.dnvgl.com/">https://approvalfinder.dnvgl.com/</a>	TAE00002U7
CCA			NTR-NL 7676
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
KEMA-KEUR		<a href="http://www.dekra-certification.com">http://www.dekra-certification.com</a>	71-103027
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
IECEE CB Scheme		<a href="http://www.iecee.org/">http://www.iecee.org/</a>	NL-51083
EAC			RU C-DE.*09.B.00169
CSA		<a href="http://www.csagroup.org/services-industries/product-listing/">http://www.csagroup.org/services-industries/product-listing/</a>	70194378
cULus Recognized			

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