

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	1 pc
GTIN	 4 055626 257488
GTIN	4055626257488
Weight per Piece (excluding packing)	36.000 g
Custom tariff number	85363030
Country of origin	Germany

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 %

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Ambient conditions

Shock (operation)	30g (Half-sine / 11 ms / 3x $\pm X$, $\pm Y$, $\pm Z$)
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
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) μs	5 kA
Standby power consumption P_C	≤ 10.6 mVA (at U_{REF})
	≤ 13.5 mVA (at U_C)
Reference test voltage U_{REF}	132 V AC
Max. discharge current I_{max} (8/20) μs	10 kA
Combination wave U_{OC}	6 kV
Voltage protection level U_p (L-N)	≤ 0.75 kV (at U_{OC})
	≤ 0.95 kV (at I_n)
Voltage protection level U_p (L-PE)	≤ 0.85 kV
Voltage protection level U_p (N-PE)	≤ 0.85 kV
TOV behavior at U_T (L-N)	240 V AC (5 s / withstand mode)

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Protective circuit

	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)	≤ 25 ns
Response time t_A (L-PE)	≤ 100 ns
Response time t_A (N-PE)	≤ 100 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 continuous voltage U_C	150 V DC
Residual voltage U_{res} (L-N)	≤ 0.68 kV (at 2 kA)
	≤ 0.75 kV (at 3 kA)
	≤ 0.64 kV (at $U_{OC} = 4$ kV)
Residual voltage U_{res} (L-PE)	≤ 0.58 kV (at 2 kA)
	≤ 0.65 kV (at 3 kA)
	≤ 0.75 kV (at $U_{OC} = 4$ kV)
Residual voltage U_{res} (N-PE)	≤ 0.58 kV (at 2 kA)
	≤ 0.65 kV (at 3 kA)
	≤ 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) μ s (line-line)	0.5 kA
Pulse discharge current I_{imp} (10/350) μ 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

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UL specifications

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

Standards and Regulations

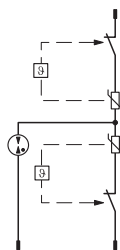
Standards/specifications	IEC 61643-11 2011
	EN 61643-11 2012

Environmental Product Compliance

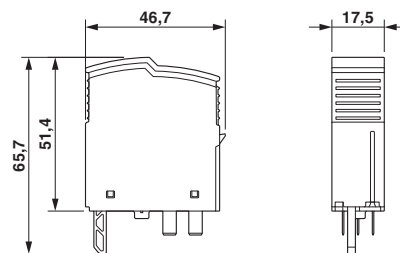
China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Drawings

Circuit diagram



Dimensional drawing



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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

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


Ex Approvals

UL Recognized / cUL Recognized / cULus Recognized

Approval details

DNV GL		https://approvalfinder.dnvgl.com/	TAE00002U7
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CCA			NTR-NL 7676
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UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 330181
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KEMA-KEUR		http://www.dekra-certification.com	71-103027
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cUL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 330181
IECEE CB Scheme		http://www.iecee.org/	NL-51083
EAC			RU C- DE.*09.B.00169
CSA		http://www.csagroup.org/services-industries/product-listing/	70194378
cULus Recognized	