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

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.

ELEKTROGERÄTE RÜCKNAHME

Commercial data

Item number	2907922
Packing unit	10 pc
Minimum order quantity	1 pc
Sales key	CL19
Product key	CL14A4
GTIN	4055626257488
Weight per piece (including packing)	38.53 g
Weight per piece (excluding packing)	33.16 g
Customs tariff number	85363030
Country of origin	DE

Technical data

Product properties

Product type	Replacement plug
Product family	SEC Family
IEC power supply system	TN-S
	TT
Type	Male
Number of positions	2
Surge protection fault message	optical

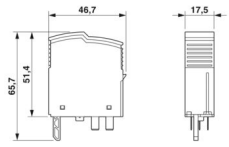
Insulation characteristics

Overvoltage category	III
Pollution degree	2
IEC test classification	II / III
	T2 / T3
EN type	T2 / T3
Number of ports	One

Connection data

Connection method	pluggable

Dimensions

Dimensional drawing	
Width	17.5 mm
Height	46.7 mm
Depth	65.7 mm
Horizontal pitch	1 HP

Material specifications

Color	light gray (RAL 7035)
	gray (RAL 7042)
Flammability rating according to UL 94	V-0
CTI value of material	600
Insulating material	PA 6.6-FR 20 % GF
	PA 6.6-FR
Housing material	PA 6.6-FR 20 % GF
	PA 6.6-FR

Protective circuit

Mode of protection	L-N
	L-PE
	N-PE
Direction of action	1L-N & N-PE
Nominal voltage U_N	120 V AC (TN-S)
	120 V AC (TT)
Nominal frequency f_N	50 Hz (60 Hz)
Maximum continuous operating voltage U_C	150 V AC
Protective conductor current I_{PE}	≤ 5 µA
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
Nominal discharge current I_n (8/20) µs	5 kA
Maximum 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)
	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)
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)

Maximum continuous operating voltage U_C	150 V DC
Mode of protection	(DC+) - (DC-)
	(DC+/DC-) - PE
IEC test classification (in accordance with IEC 61643-21)	D1
Impulse durability (wire-wire)	D1 - 500 A
Impulse durability (line-earth)	D1 - 500 A
Pulse discharge current I_{imp} (10/350) µs (line-line)	0.5 kA
Pulse discharge current I_{imp} (10/350) µs (line-earth)	0.5 kA

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	≤ 6000 m (amsl)
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)

Approvals

UL specifications

Maximum continuous operating voltage MCOV	150 V DC
Short-circuit current rating (SCCR)	10 kA AC
	5 kA DC
Voltage protection rating VPR (L-N)	800 V
Voltage protection rating VPR (L-G)	900 V
Voltage protection rating VPR (N-G)	900 V
Voltage protection rating VPR (DC+) - (DC-)	700 V
Voltage protection rating VPR (DC+) - G	900 V
Voltage protection rating VPR (DC-) - G	900 V
Nominal discharge current I_n	5 kA
Mode of protection	L-N
	L-G
	N-G
	(DC+) - (DC-)
	(DC+) - G
	(DC-) - G
Nominal voltage	150 V DC
Rated load current I_L	20 A
Power distribution system	Single phase
	DC
Nominal frequency	50/60 Hz
SPD Type	2CA

Standards and regulations

Standards/specifications	IEC 61643-11
Note	2011

EN 61643-11

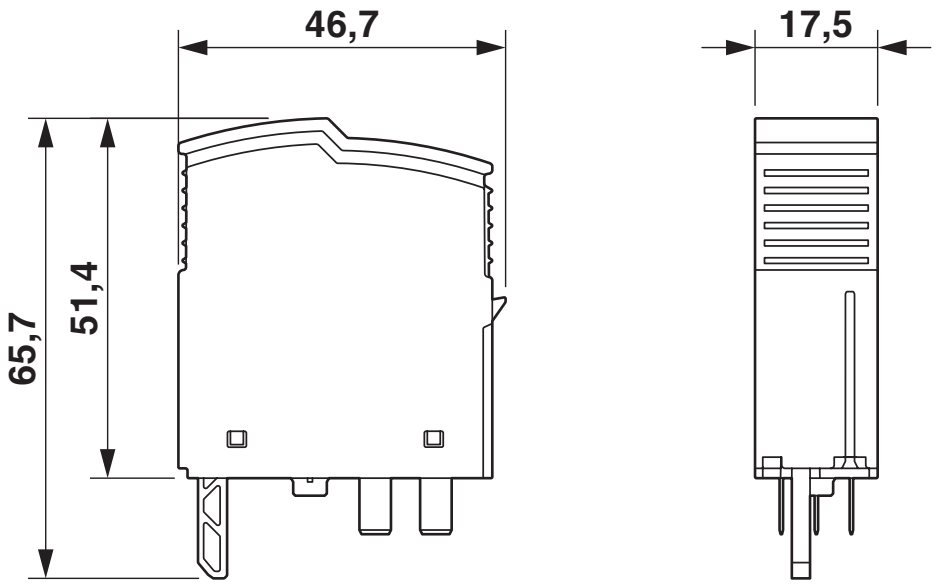
Standards/specifications	EN 61643-11
Note	2012

Mounting

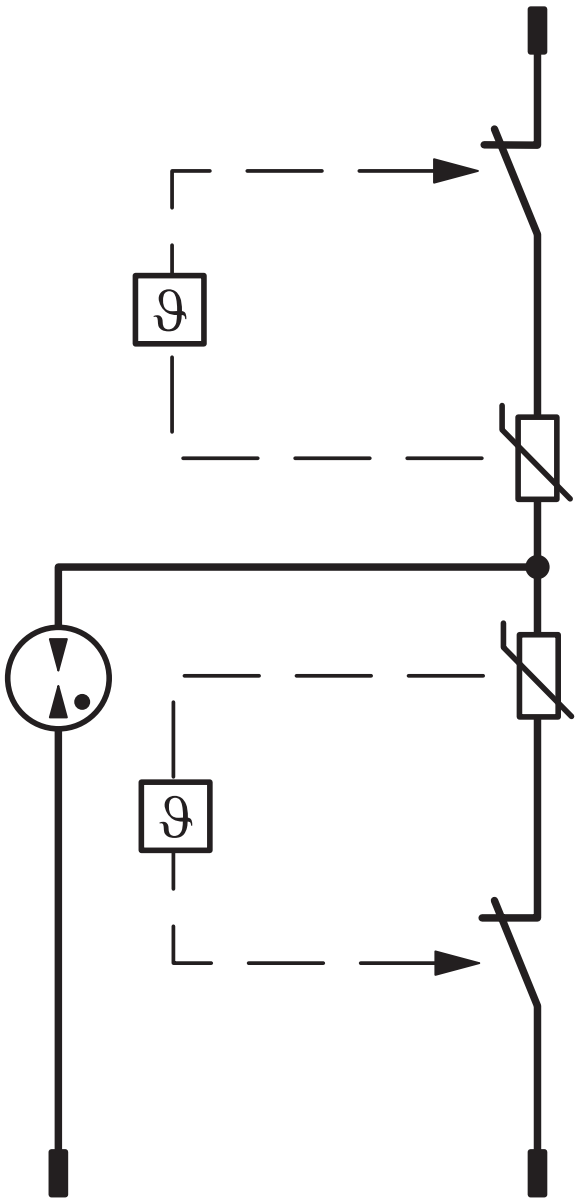
Mounting type	on base element

Drawings

Dimensional drawing



Circuit diagram



Approvals

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cUL Recognized
Approval ID: FILE E 330181

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IECEE CB Scheme
Approval ID: NL-51083

CCA
Approval ID: NTR-NL 7676

KEMA-KEUR
Approval ID: 71-103027

CSA
Approval ID: 13631

UAE-RoHS
Approval ID: 23-10-88891

DNV
Approval ID: TAE00002U7

cUL Recognized
Approval ID: FILE E 340736

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Classifications

ECLASS

ECLASS-13.0	27171292
ECLASS-15.0	27171292

ETIM

ETIM 10.0	EC002496

UNSPSC

UNSPSC 21.0	39121600

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions

China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%

EF3.1 Climate Change

CO2e kg	0.999 kg CO2e

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