

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



2907920

<https://www.phoenixcontact.com/us/products/2907920>

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

Commercial data

Item number	2907920
Packing unit	10 pc
Minimum order quantity	1 pc
Sales key	CL19
Product key	CL14A4
GTIN	4055626257464
Weight per piece (including packing)	37.2 g
Weight per piece (excluding packing)	33.825 g
Customs tariff number	85363030
Country of origin	DE

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Technical data

Product properties

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

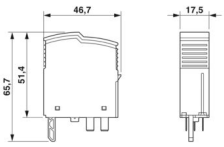
Insulation characteristics

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

Connection data

Connection method	pluggable
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Dimensions

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

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

	L-N
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Mode of protection	L-PE
	N-PE
Direction of action	1L-N & N-PE
Nominal voltage U_N	24 V AC (TN-S)
Nominal frequency f_N	50 Hz (60 Hz)
Maximum continuous operating voltage U_C	34 V AC
Protective conductor current I_{PE}	$\leq 5 \mu\text{A}$
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
Nominal discharge current I_n (8/20) μs	1 kA
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) μs	4 kA
Nominal discharge current I_n (8/20) μs	3 kA
Residual voltage U_{res} (L-N)	$\leq 0.16 \text{ kV}$ (at 0.5 kA)
	$\leq 0.2 \text{ kV}$ (at 1 kA)
Residual voltage U_{res} (L-PE)	$\leq 0.35 \text{ kV}$ (at 0.5 kA)
	$\leq 0.4 \text{ kV}$ (at 1 kA)
Residual voltage U_{res} (N-PE)	$\leq 0.35 \text{ kV}$ (at 0.5 kA)
	$\leq 0.4 \text{ kV}$ (at 1 kA)
Maximum continuous operating voltage U_C	44 V DC
Mode of protection	(DC+) - (DC-)
	(DC+/DC-) - PE

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

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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	34 V AC
	34 V DC
Nominal discharge current I_n	1 kA
Mode of protection	L-N
	L-G
	N-G
	(DC+) - (DC-)
	(DC+) - G
	(DC-) - G
Nominal voltage	34 V DC
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
SPD Type	4CA

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
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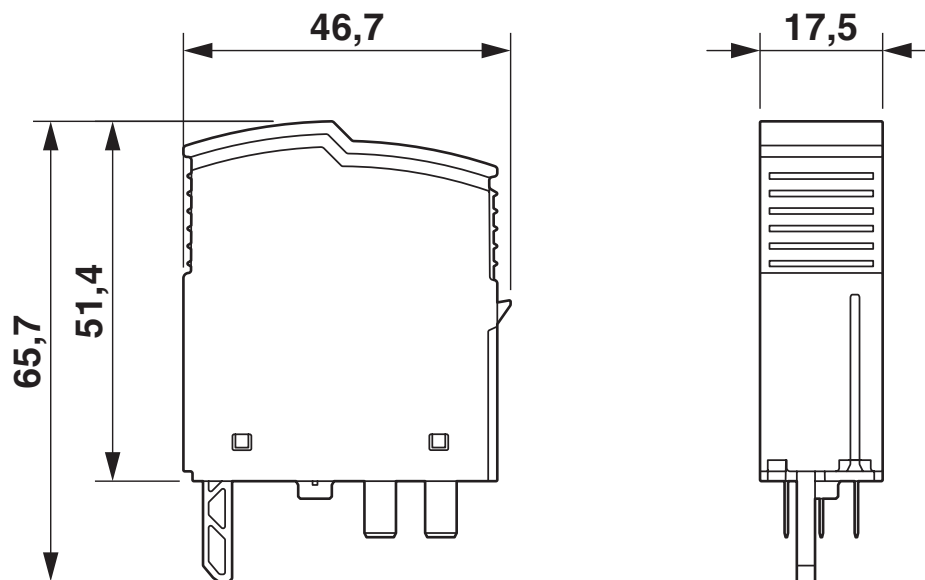


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Drawings

Dimensional drawing



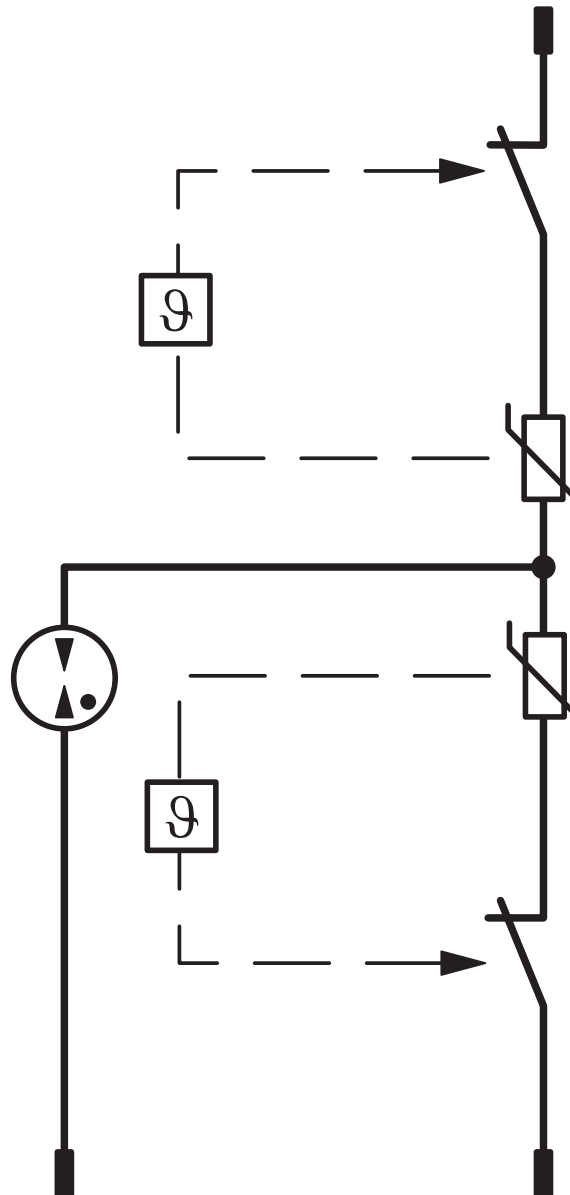
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Circuit diagram



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Approvals

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cUL Recognized
Approval ID: FILE E 330181



UL Recognized
Approval ID: FILE E 330181



IECEE CB Scheme
Approval ID: NL-51083

CCA

Approval ID: NTR-NL 7676



KEMA-KEUR
Approval ID: 71-103027

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
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UNSPSC

UNSPSC 21.0	39121600
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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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%
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EF3.1 Climate Change

CO2e kg	0.739 kg CO2e
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