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## Type 3 surge protection plug - PLT-SEC-T3-24-P - 2905232

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Replacement plug for type 3 device protection from the PLUGTRAB SEC T3 product range. 24 V nominal voltage.

### Why buy this product

- Varistor-based device protection
- Can be used without separate backup fuse thanks to integrated overcurrent protection
- Pluggable
- Optical status indicator via LED
- Plugs can be checked with CHECKMASTER 2



### Key Commercial Data

Packing unit	1 STK
GTIN	 4 046356 939720
GTIN	4046356939720

### Technical data

#### Dimensions

Height	60.9 mm
Width	17.5 mm
Depth	44.8 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	≤ 2000 m (amsl (above mean sea level))
Permissible humidity (operation)	5 % ... 95 %

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## Technical data

### Ambient conditions

Shock (operation)	30g (Half-sine / 11 ms / 3x ±X, ±Y, ±Z)
Vibration (operation)	5g (10 ... 150 Hz/20 cycles/axis/X, Y, Z)

### General

EN type	T3
IEC power supply system	TN-S
Mode of protection	L-N
	L-PE
	N-PE
	(L+) - (L-)
	(L+/L-) - 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
	34 V DC
Residual current $I_{PE}$	$\leq 5 \mu A$
Nominal discharge current $I_n$ (8/20) $\mu s$	1 kA
Standby power consumption $P_C$	$\leq 30$ mVA (at $U_{REF}$ )
	$\leq 50$ 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)	$\leq 0.25$ kV
Voltage protection level $U_p$ (L-PE)	$\leq 0.65$ kV
Voltage protection level $U_p$ (N-PE)	$\leq 0.65$ kV
TOV behavior at $U_T$ (L-N)	50 V AC (5 s / withstand mode)
	50 V AC (120 min / withstand mode)
TOV behavior at $U_T$ (L-PE)	50 V AC (5 s / withstand mode)
	50 V AC (120 min / withstand mode)
Response time $t_A$ (L-N)	$\leq 25$ ns
Response time $t_A$ (L-PE)	$\leq 100$ ns

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### Technical data

#### Protective circuit

Response time $t_A$ (N-PE)	$\leq 100$ ns
Short-circuit current rating $I_{SCCR}$	1.5 kA AC
	1 kA DC

#### 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	24 V DC
Mode of protection	L-N
	L-G
	N-G
	(L+) - (L-)
	(L+) - G
	(L-) - G
Power distribution system	1
Nominal frequency	50/60 Hz
Measured limiting voltage MLV (L-N)	290 V
Measured limiting voltage MLV (L-G)	560 V
Measured limiting voltage MLV (N-G)	560 V
Measured limiting voltage MLV (L+) - (L-)	290 V
Measured limiting voltage MLV (L+) - G	560 V
Measured limiting voltage MLV (L-) - G	560 V
Nominal discharge current $I_n$	1 kA

#### Standards and Regulations

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

#### Environmental Product Compliance

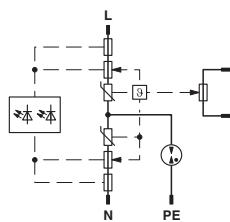
REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

### Drawings

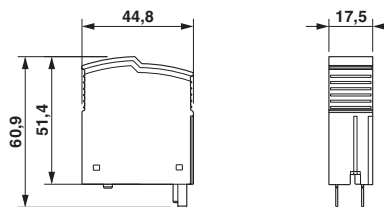


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Circuit diagram



Dimensional drawing



## Approvals

### Approvals

#### Approvals

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

#### Ex Approvals

UL Recognized / cUL Recognized / cULus Recognized


### Approval details

KEMA-KEUR		<a href="http://www.dekra-certification.com">http://www.dekra-certification.com</a>	2173868.01
CCA			NTR-NL 7399
IECEE CB Scheme		<a href="http://www.iecee.org/">http://www.iecee.org/</a>	NL-35777
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
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
EAC			RU C-DE.A*30.B01561

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### Approvals

GL		<a href="http://exchange.dnv.com/tari/">http://exchange.dnv.com/tari/</a>	14588-15 HH
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cULus 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>
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