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Especialistas en Automatización

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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.

The illustration shows version PLT-SEC-T3-230-P

### 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

### 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))

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## Technical data

### Ambient conditions

Permissible humidity (operation)	5 % ... 95 %
Shock (operation)	30g (half sinus / 11 ms / 3x ±X, ±Y, ±Z)
Vibration (operation)	5g (10 ... 150 Hz/20 cycles/axis/X, Y, Z)

### General

Standards/specifications	IEC 61643-11 2011
	EN 61643-11 2012
IEC test classification	III
	T3
EN type	T3
SPD design	Combination type
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)

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

### Technical data

#### Protective circuit

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

#### 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)	500 V
Measured limiting voltage MLV (N-G)	500 V
Measured limiting voltage MLV (L+) - (L-)	290 V
Measured limiting voltage MLV (L+) - G	500 V
Measured limiting voltage MLV (L-) - G	500 V
Nominal discharge current $I_n$	1 kA

### Classifications

#### eCl@ss

eCl@ss 5.1	27130801
eCl@ss 6.0	27130806
eCl@ss 8.0	27130806
eCl@ss 9.0	27130806

#### ETIM

ETIM 5.0	EC000942
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## Approvals

### Approvals

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#### Approvals

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

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#### Ex Approvals

UL Recognized / cUL Recognized / cULus Recognized

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#### Approvals submitted


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## Approval details

KEMA-KEUR 

CCA


IECEE CB Scheme 

UL Recognized 

cUL Recognized 

EAC

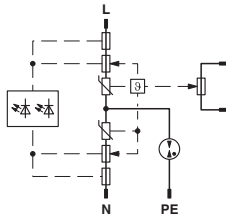
GL

cULus Recognized 

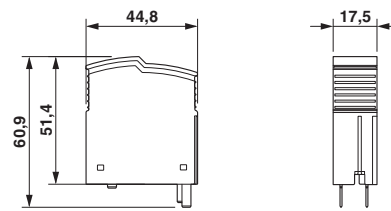
## Drawings

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

Circuit diagram



Dimensional drawing



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