

# PLT-T3-IT-230-P - Type 3 surge protection plug



2906451

<https://www.phoenixcontact.com/us/products/2906451>

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Replacement plug for device protection in IT systems from the PLUGTRAB product series. 230 V nominal voltage.

## Commercial data

Item number	2906451
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL01
Product key	CL1411
GTIN	4055626077345
Weight per piece (including packing)	40.9 g
Weight per piece (excluding packing)	30.71 g
Customs tariff number	85363010
Country of origin	DE

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## Technical data

### Product properties

Product type	Replacement plug
Product family	PLUGTRAB PT
IEC power supply system	IT
Type	Male

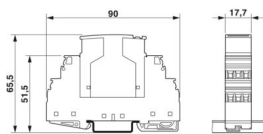
### Insulation characteristics

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

### Connection data

Connection method	pluggable
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### Dimensions

Dimensional drawing	
Width	17.7 mm
Height	45 mm
Depth	52 mm

### Material specifications

Color	black (RAL 9005)
Flammability rating according to UL 94	V-0
CTI value of material	600
Insulating material	PA 6.6
Housing material	PA 6.6

### Protective circuit

Mode of protection	L-L L-PE
Direction of action	1L-N & N-PE
Nominal voltage $U_N$	230 V AC (IT)
Nominal frequency $f_N$	50 Hz (60 Hz)
Maximum continuous operating voltage $U_C$ (L-L)	275 V AC
Maximum continuous operating voltage $U_C$ (L-N)	275 V AC

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Maximum continuous operating voltage $U_C$ (L-PE)	440 V AC
Rated load current $I_L$	16 A (60 °C)
Protective conductor current $I_{PE}$	$\leq 1 \mu\text{A}$
Standby power consumption $P_C$	$\leq 340 \text{ mVA}$
Reference test voltage $U_{REF}$	255 V AC
Nominal discharge current $I_n$ (8/20) $\mu\text{s}$	3 kA
Maximum discharge current $I_{max}$ (8/20) $\mu\text{s}$	8 kA
Combination wave $U_{OC}$	6 kV
Voltage protection level $U_p$ (L-L)	$\leq 1.2 \text{ kV}$
Voltage protection level $U_p$ (L-N)	$\leq 1.2 \text{ kV}$
Voltage protection level $U_p$ (L-PE)	$\leq 1.5 \text{ kV}$
Residual voltage at $I_{max}$ , (L-PE)	$\leq 1 \text{ kV}$ (at 1 kA) $\leq 1.5 \text{ kV}$ (at $U_{OC}$ )
TOV behavior at $U_T$ (L-PE)	440 V AC (120 min / withstand mode) 1455 V AC (200 ms / safe failure mode)
Response time $t_A$ (L-N)	$\leq 25 \text{ ns}$
Response time $t_A$ (L-PE)	$\leq 100 \text{ ns}$
Max. required back-up fuse	16 A (MCB B)
Short-circuit current rating $I_{SCCR}$	1.5 kA AC
Maximum backup fuse for through wiring	16 A (MCB B)
Max. backup fuse with branch wiring	16 A (MCB B)

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 70 °C
Altitude	$\leq 2000 \text{ m}$ (amsl)
Permissible humidity (operation)	5 % ... 95 %

## Standards and regulations

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

## Mounting

Mounting type	on base element
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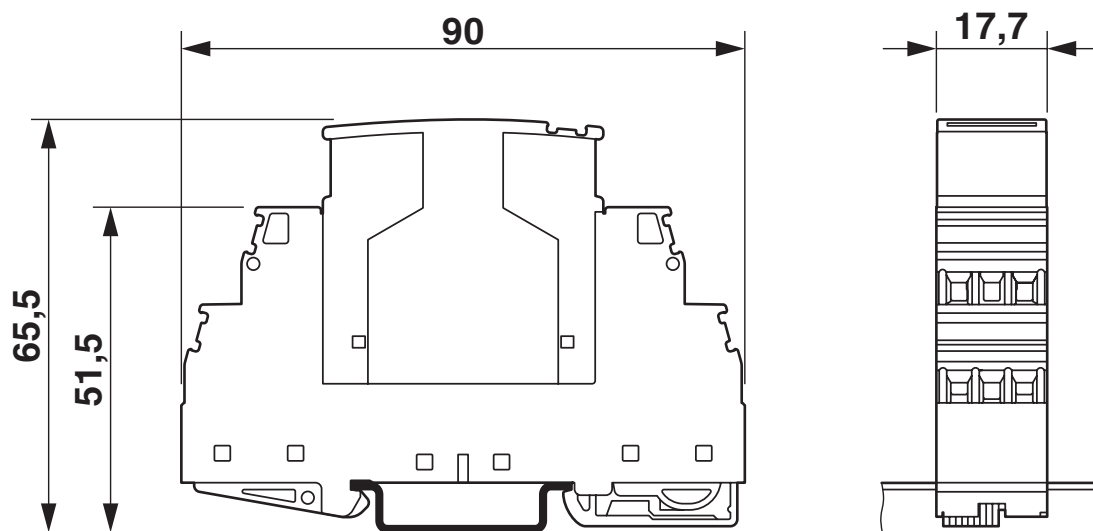
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## Drawings

Dimensional drawing



The figure shows the complete module consisting of a base element and connector

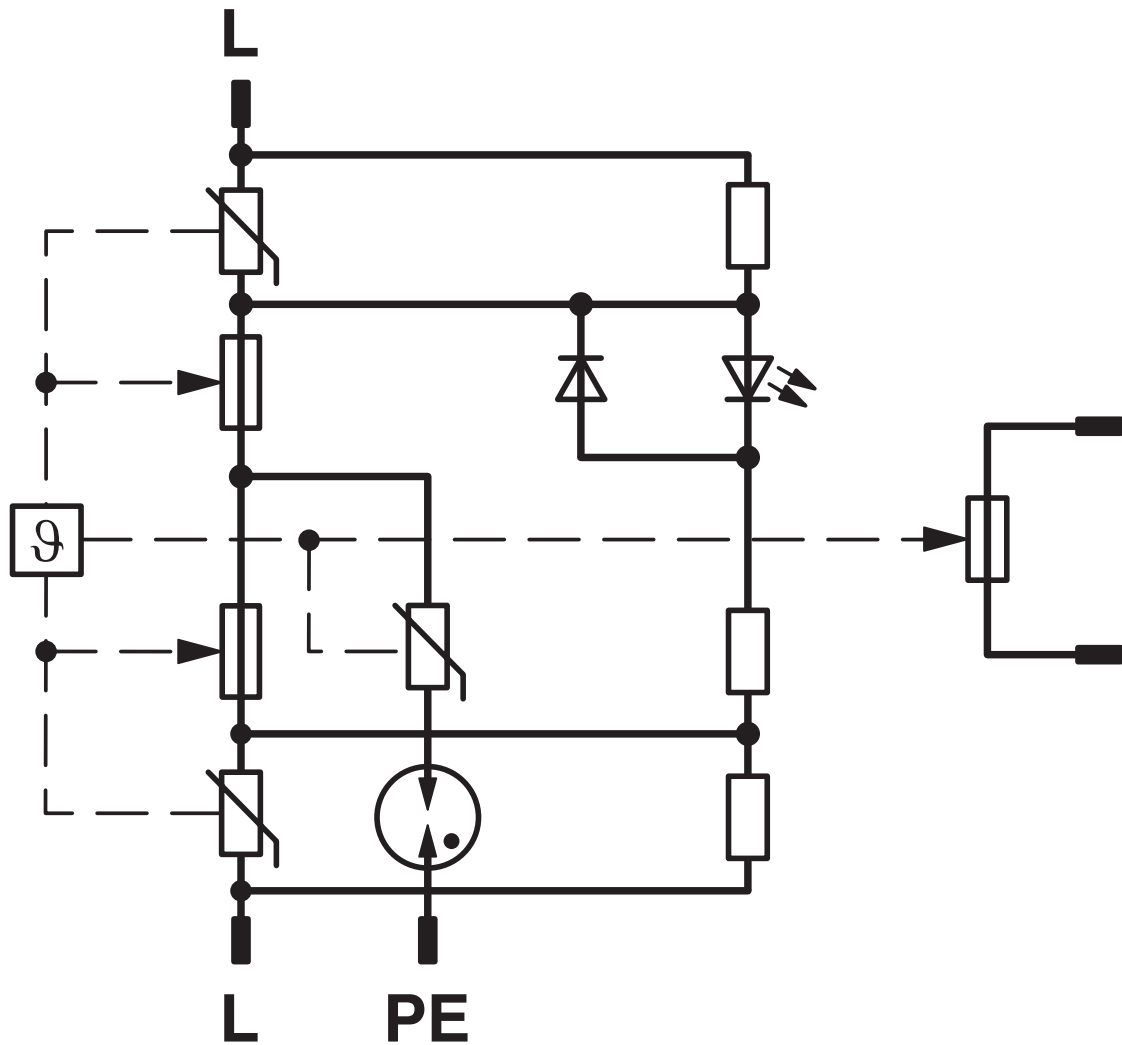
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Circuit diagram



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## Approvals

🔗 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2906451>

### **UAE-RoHS**

Approval ID: 23-10-88890

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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
Exemption	7(c)-I

### China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

### EU REACH SVHC

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