TTC-6P-T3-24DC-I-P - Type 3 surge protection plug

1027591

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Replacement plug for type 3 surge protection from the TERMITRAB complete T3 product series. Nominal voltage 24 V.

Your advantages

- Space-saving and cost-saving with a narrow overall width of just 6 mm
- Continuous monitoring of protective devices, plus mechanical status indicator with optional remote signaling
- Finding the right product for all possible requirements in MCR applications is easy, thanks to the complete range of products with customized features
- Easy testing and documentation with CHECKMASTER 2 with pluggable protective modules
- The signal is not influenced during maintenance work, thanks to the impedance-neutral insertion and removal of protective plugs

ELEKTROGERÄTE RÜCKNAHME

Commercial data

Item number	1027591
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL01
Product key	CL14D1
GTIN	4055626522234
Weight per piece (including packing)	25.5 g
Weight per piece (excluding packing)	8.72 g
Customs tariff number	85363030
Country of origin	DE

Technical data

Notes

General

Note	CBM:
	2905743 CBM E4 24DC/0.5-10A NO-R
	2905744 CBM E8 24DC/0.5-10A NO-R
	CBMC:
	2906032 CBMC E4 24DC/1-10A NO
	2908716 CBMC E4 24DC/1-10A NO-C
	2910411 CBMC E4 24DC/1-10A IOL
	PTCB:
	2908262 PTCB E1 24DC/1-8A NO
	CB E1:
	2800907 CB E1 24DC/10A NO P
	2800914 CB E1 24DC/10A S-R P
	2800928 CB E1 24DC/10A S-C P
	2905805 CB E1 24DC/10A SI-R P
	2905812 CB E1 24DC/10A SI-C P

Product properties

Product type	Replacement plug
Product family	TERMITRAB complete
IEC power supply system	DC
Type	Male
Surge protection fault message	optical

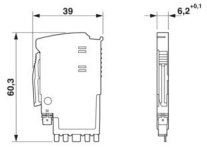
Insulation characteristics

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

Connection data

Connection method	pluggable

Dimensions

Dimensional drawing	
Width	6.2 mm +0.1 mm
Height	39 mm
Depth	60.3 mm

Material specifications

Color	light gray (RAL 7035)
Flammability rating according to UL 94	V-0
CTI value of material	600
Insulating material	PBT
Housing material	PBT

Protective circuit

Mode of protection	(DC+) - (DC-)
	(DC+/DC-) - PE
Direction of action	1L-N & N-PE
Nominal voltage U_N	24 V DC
Maximum continuous operating voltage U_C	30 V DC
Protective conductor current I_{PE}	≤ 5 µA
Nominal discharge current I_n (8/20) µs	1 kA
Combination wave U_{OC}	2 kV (2 Ω)
	2 kV (2 Ω)
Voltage protection level U_p (DC+) - (DC-)	≤ 0.09 kV (U_{oc}= 2 kV)
	≤ 0.2 kV (U_{oc}= 6 kV)
Voltage protection level U_p (DC+/DC-) - PE	≤ 0.7 kV
Response time tA (DC+) - (DC-)	≤ 1 ns
Response time tA (DC+/DC-) - PE	≤ 100 ns
Short-circuit current rating I_{SCCR}	60 A DC (without additional backup fuse)
	220 A DC
Maximum backup fuse for through wiring	6 A (gG)
Max. backup fuse with branch wiring	6 A (gG)
	10 A (see the note: CBM, CBMC, PTCB, CB E1)

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 (10 Hz ... 150 Hz / 20 cycles/axis / X, Y, Z)

Standards and regulations

Standards/specifications	IEC 61643-11
Note	2011

EN 61643-11

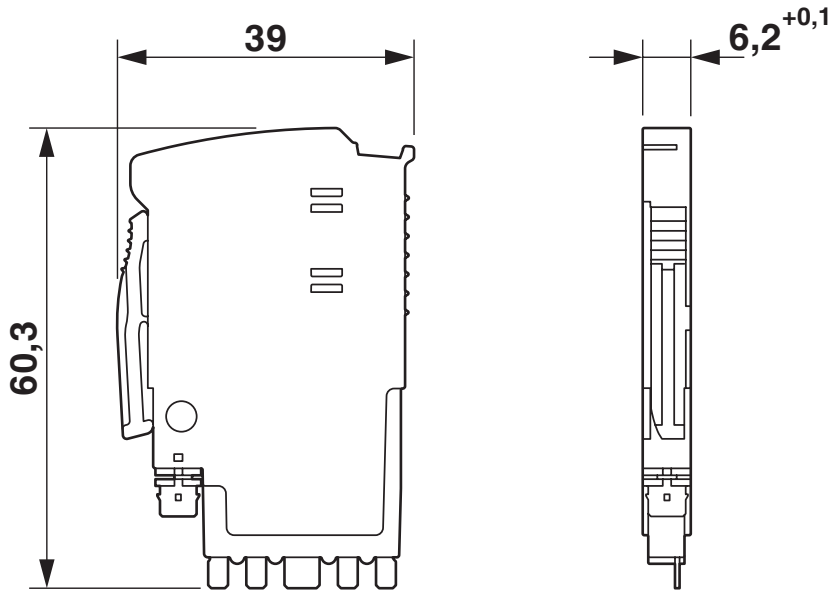
Standards/specifications	EN 61643-11
Note	2012

Mounting

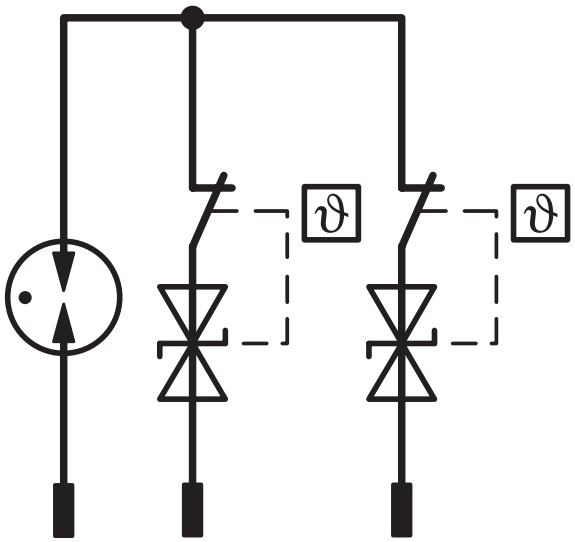
Mounting type	on base element

Drawings

Dimensional drawing



Circuit diagram



Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1027591

UL Listed
Approval ID: FILE E 138168

UAE-RoHS
Approval ID: 22-06-16783

cUL Listed
Approval ID: FILE E 333250

UL Listed
Approval ID: FILE E 333250

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
Exemption	7(a), 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.)	Lead(CAS: 7439-92-1)
SCIP	40c47b43-2a3b-412c-a612-4011ceb862a0

EF3.1 Climate Change

CO2e kg	0.536 kg CO2e

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