

# TCP 6A - Thermal device circuit breaker



0712275

<https://www.phoenixcontact.com/us/products/0712275>

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Thermal miniature circuit breaker, pluggable in screw-type fuse terminal block UK 6-FSI/C and spring-cage fuse terminal block ST 4-FSI/C

## Your advantages

- Fast, replacement part-free recommissioning after an event with the reconnection options
- Easy to retrofit in existing systems with vehicle flat-type fuses with identical pin connector pattern
- System disconnection for maintenance actions via the integrated device switch

## Commercial data

Item number	0712275
Packing unit	1 pc
Sales key	CL15
Product key	CLA111
Catalog page	Page 401 (C-4-2019)
GTIN	4017918848392
Weight per piece (including packing)	10.87 g
Weight per piece (excluding packing)	10.809 g
Customs tariff number	85362010
Country of origin	ID

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## Technical data

### Notes

General	When mounted in rows, the nominal device current can be limited to just 80% or must be oversized accordingly.
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### Product properties

Type	Male
Product type	Thermal device circuit breakers
Number of positions	1
No. of channels	1

### Insulation characteristics

Overvoltage category	II
Degree of pollution	2

### Electrical properties

Fuse type	Automatic device
Maximum power dissipation for nominal condition	$\leq 0.9 \text{ VA}$
Fuse	Slow-blow

### General

Rated voltage	250 V AC
	65 V DC
	250 V AC (AC according to UL 1077)
	72 V DC (DC according to UL 1077)
Rated current $I_N$	6 A
Rated surge voltage	2.5 kV
Insulation resistance $R_{iso}$	$> 100 \text{ M}\Omega$ (500 V DC)
Tripping method	T (thermal)
Device resistance	$0.05 \Omega$
Rated short-circuit switching capacity $I_{cn}$	48 A (250 V AC / 65 V DC)
	60 A (30 V DC)
Short-circuit switching capacity	2000 A (250 V AC / UL 1077)
	2000 A (72 V DC / UL 1077)
Dielectric strength	3000 V AC (Actuation area)
	1500 V AC (Installation area)
Switching cycles, max.	6000 (At $1 \times I_N$ , low-induction)
	3000 (At $1 \times I_N$ , inductive)
	500 (At $2 \times I_N$ , inductive)

### Connection data

Nominal current	6 A
Nominal voltage	250 V AC
	65 V DC

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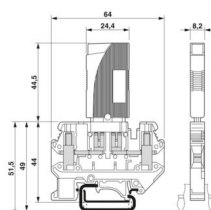
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Connection method	pluggable
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## Dimensions

Dimensional drawing



Width	8.2 mm
Height	24.4 mm
Height NS 35/7,5	55 mm
Depth	44.5 mm

## Material specifications

Color	black (RAL 9005)
Flammability rating according to UL 94	V-0
Insulating material group	IIIb
Insulating material	PPS

## Mechanical properties

Mechanical data

Open side panel	No
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## Environmental and real-life conditions

Ambient conditions

Degree of protection	IP40 (Actuation area)
Ambient temperature (operation)	-20 °C ... 60 °C
Altitude	≤ 4000 m (amsl)
Humidity test	240 h, 95 % RH, 40 °C

## Standards and regulations

Standards/specifications	EN 60934
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## Mounting

Mounting type	on base element
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## Classifications

### ECLASS

ECLASS-11.0	27141116
ECLASS-12.0	27141116
ECLASS-13.0	27140401

### ETIM

ETIM 9.0	EC000899
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### UNSPSC

UNSPSC 21.0	39121400
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## Environmental product compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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