

# TCP 32DC/20A M - Thermal device circuit breaker



1499969

<https://www.phoenixcontact.com/us/products/1499969>

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1-channel thermal device circuit breaker for protecting loads up to 32 V DC in the event of an overload. Fuse type: slow-blow. Can be plugged onto fuse terminal blocks and interfaces for flat plug-in fuse of type C according to standard ISO 8820-3. With fixed nominal current: 20 A

## 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
- Easy identification of the nominal current value via color marking

## Commercial data

Item number	1499969
Packing unit	100 pc
Minimum order quantity	100 pc
Sales key	CL27
Product key	CLA112
GTIN	4063151956134
Weight per piece (including packing)	4.687 g
Weight per piece (excluding packing)	4.687 g
Customs tariff number	85362010
Country of origin	CN

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## Technical data

### Product properties

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

### Insulation characteristics

Protection class	III
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### Electrical properties

Fuse	thermal
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### General

Rated voltage	max. 32 V DC
Rated current $I_N$	20 A
Required backup fuse	Only required if $I_{max}$ of the power supply > the short-circuit switching capacity.
Rated short-circuit switching capacity $I_{cn}$	200 A ( $\geq 3$ shutdowns)
Short-circuit switching capacity	150 A ( $\geq 3$ shutdowns)
	2000 A ( $\geq 1$ switch-off)
Fuse	thermal
Voltage drop	< 150 mV
Contact switching type	Type C in accordance with ISO 8820-3

### Connection data

Connection method	pluggable
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### Dimensions

Dimensional drawing	
Width	6.2 mm
Height	19.7 mm
Depth	29.5 mm

### Material specifications

Color	colza yellow (RAL 1021)
Material	CuSn
Flammability rating according to UL 94	V-0

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Insulating material	PA 6
Housing material	PA 6

## Mechanical properties

### Mechanical data

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

### Ambient conditions

Degree of protection	IP30 (Actuation area)
Ambient temperature (operation)	-40 °C ... 85 °C
Ambient temperature (storage/transport)	-40 °C ... 125 °C

## Mounting

Mounting type	on base element
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## Drawings

Dimensional drawing





Trigger characteristic

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## Classifications

### ECLASS

ECLASS-13.0	27140401
ECLASS-15.0	27140401

### ETIM

ETIM 10.0	EC003538
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### UNSPSC

UNSPSC 21.0	39121400
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

### EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)