

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 |
|------------------|-----|

Electrical properties

| | |
|------|---------|
| Fuse | thermal |
|------|---------|

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 (≥ 3 shutdowns) |
| Short-circuit switching capacity | 150 A (≥ 3 shutdowns) |
| | 2000 A (≥ 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 |
|-------------------|-----------|

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 |
|-----------------|----|

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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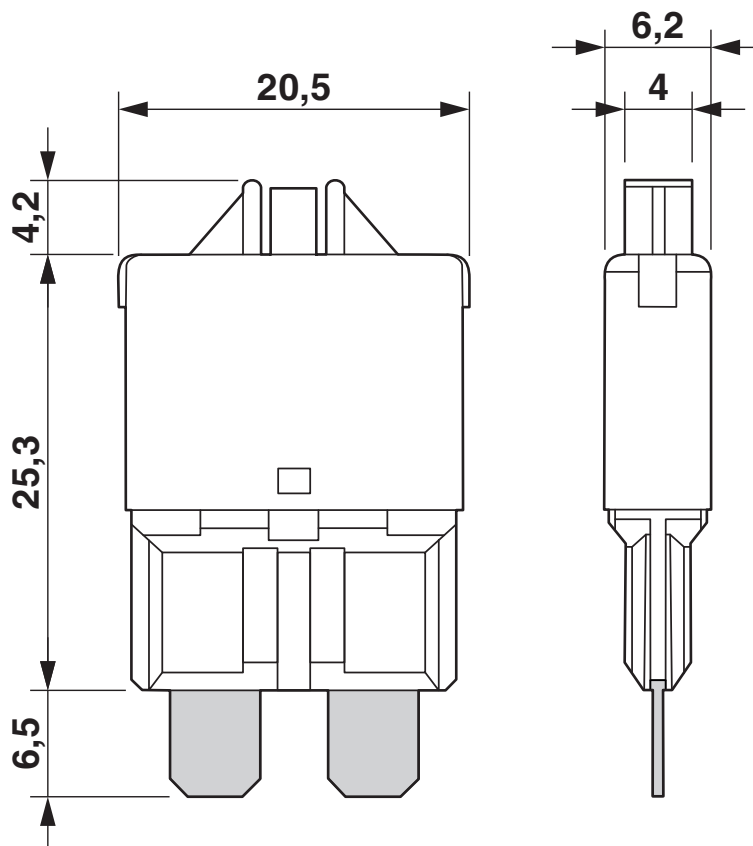
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Drawings

Dimensional drawing





Trigger characteristic

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27140401 |
| ECLASS-15.0 | 27140401 |

ETIM

| | |
|-----------|----------|
| ETIM 10.0 | EC003538 |
|-----------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|

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Environmental product compliance

EU RoHS

| | |
|---|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|---|--------------------|

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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