

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



1499944

<https://www.phoenixcontact.com/us/products/1499944>

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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: fast-acting. 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                          | 1499944       |
| Packing unit                         | 100 pc        |
| Minimum order quantity               | 100 pc        |
| Sales key                            | CL27          |
| Product key                          | CLA112        |
| GTIN                                 | 4063151956301 |
| Weight per piece (including packing) | 4.659 g       |
| Weight per piece (excluding packing) | 4.252 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 ( $\geq 3$ 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 |
|-------------------|-----------|

### 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 |
|---------------|-----------------|

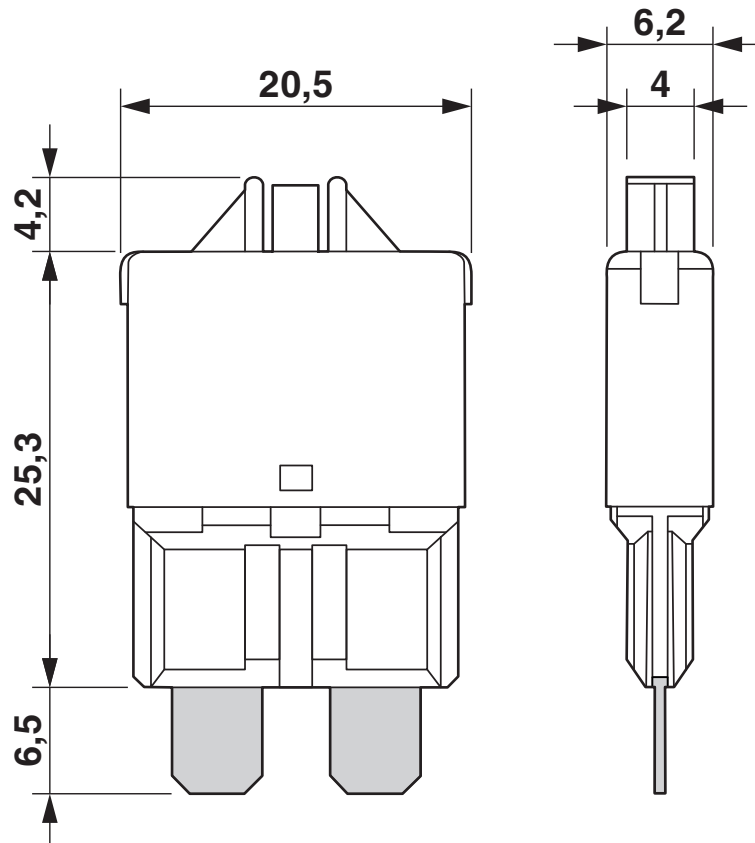
# TCP 32DC/20A F - Thermal device circuit breaker

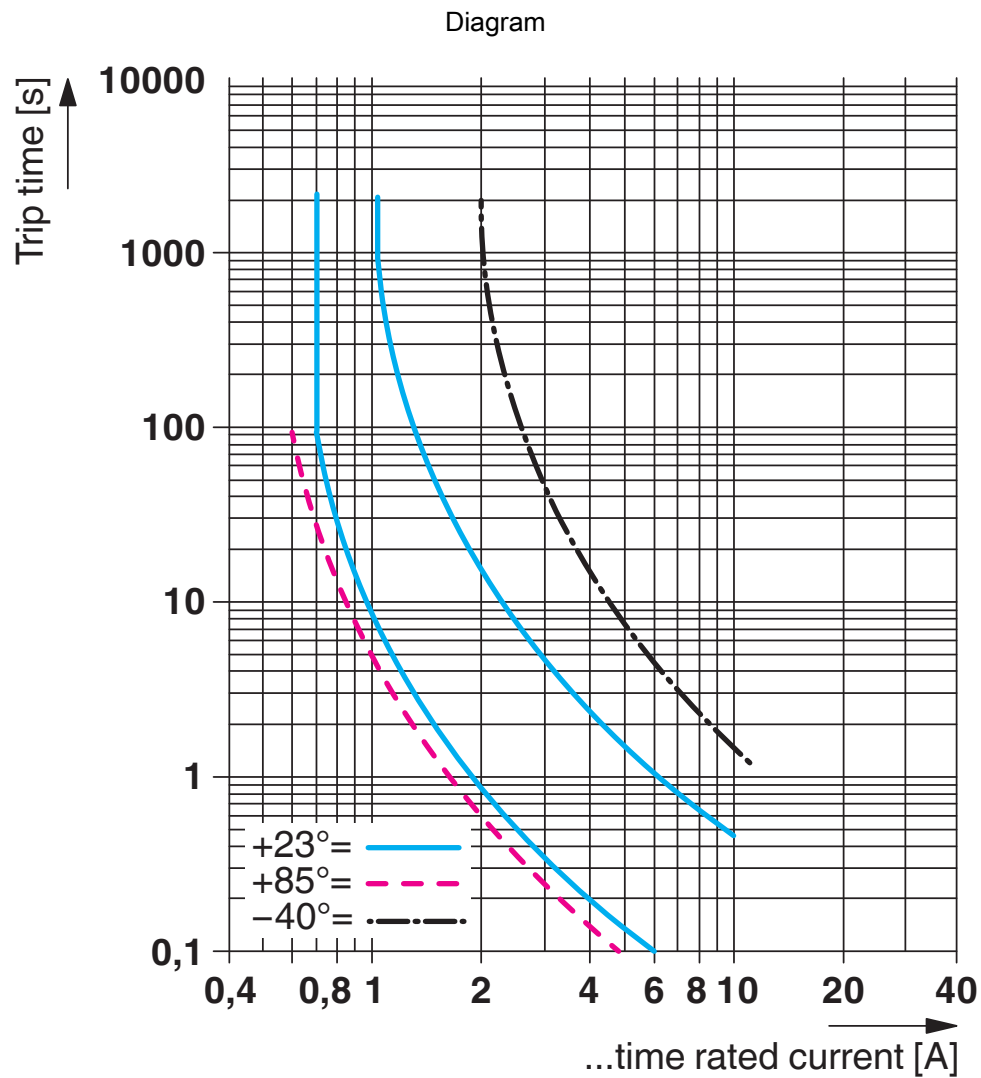
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## Drawings

Dimensional drawing





Trigger characteristic

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## Classifications

### ECLASS

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

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC003538 |
|----------|----------|

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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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