

TCP 10A - Thermal device circuit breaker



0712314

<https://www.phoenixcontact.com/us/products/0712314>

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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 | 0712314 |
| Packing unit | 1 pc |
| Sales key | CL15 |
| Product key | CLA111 |
| Catalog page | Page 401 (C-4-2019) |
| GTIN | 4017918848415 |
| Weight per piece (including packing) | 11.173 g |
| Weight per piece (excluding packing) | 11.173 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. |
|---------|---|

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 |
| 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 | 10 A |
| Rated surge voltage | 2.5 kV |
| Insulation resistance R_{iso} | > 100 M Ω (500 V DC) |
| Tripping method | T (thermal) |
| Device resistance | 0.05 Ω |
| Rated short-circuit switching capacity I_{cn} | 80 A (250 V AC / 65 V DC) |
| | 200 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 x I_N , low-induction) |
| | 3000 (At 1 x I_N , inductive) |
| | 500 (At 2 x I_N , inductive) |

Connection data

| | |
|-------------------|-----------|
| Nominal current | 10 A |
| Nominal voltage | 250 V AC |
| | 65 V DC |
| Connection method | pluggable |

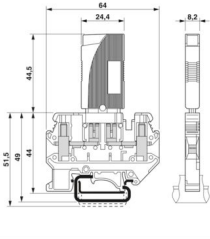
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Dimensions

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

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

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

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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