

# TMCP 1 F1 300 2,0A - Thermal-magnetic device circuit breaker



0915580

<https://www.phoenixcontact.com/us/products/0915580>

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Thermal-magnetic circuit breaker, 1-pos., fast blow, 1 N/O contact and 1 N/C contact

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 0915580                        |
| Packing unit                         | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | CL04                           |
| Product key                          | CLA123                         |
| GTIN                                 | 4017918600792                  |
| Weight per piece (including packing) | 51.483 g                       |
| Weight per piece (excluding packing) | 49.23 g                        |
| Customs tariff number                | 85362010                       |
| Country of origin                    | DE                             |

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## Technical data

### Product properties

|                     |  |
|---------------------|--|
| Product type        | Thermomagnetic device circuit breakers |
| Product family      | TMCP                                   |
| Type                | Male                                   |
| Number of positions | 1                                      |

### Insulation characteristics

|                      |    |
|----------------------|----|
| Overvoltage category | II |
| Degree of pollution  | 2  |

### Electrical properties

|           |                  |
|-----------|------------------|
| Fuse type | Automatic device |
|-----------|------------------|

### General

|   |   |
|---|---|
| Rated voltage                                   | 65 V DC   |
| Rated current $I_N$                             | 2 A   |
| Rated surge voltage                             | 2.5 kV  |
| Insulation resistance $R_{iso}$                 | > 100 M $\Omega$ (500 V DC)   |
| Auxiliary circuit                               | 240 V AC / 1 A (Low-induction)<br>65 V AC / 1 A (Low-induction)   |
| Tripping method                                 | TM (thermal-magnetic)   |
| Device resistance                               | 0.42 $\Omega$   |
| Rated short-circuit switching capacity $I_{cn}$ | 2500 A (32 V DC)  |
| Short-circuit switching capacity                | 5000 A (UL 1077: 277 V AC)<br>2000 A (UL 1077: 65 V DC)   |
| Dielectric strength                             | 3000 V AC (Actuation area)<br>1500 V AC (Main to auxiliary circuit)<br>1000 V AC (Auxiliary circuit 11 - 12 to 23 - 24) |
| Switching cycles, max.                          | 10000 (At $1 \times I_N$ , inductive)   |
| Fuse  | F1 (fast blow)  |
| Contact switching type                          | 1 N/O contact<br>1 N/C contact  |

### Connection data

|                   |           |
|-------------------|-----------|
| Connection method | pluggable |
| Connection method | pluggable |

### Dimensions

|        |         |
|--------|---------|
| Width  | 12.5 mm |
| Height | 50 mm   |
| Depth  | 78.5 mm |

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|                        |        |
|------------------------|--------|
| Complete module width  | 38 mm  |
| Complete module height | 115 mm |
| Complete module depth  | 121 mm |

## Material specifications

|  |      |
|--|------|
| Flammability rating according to UL 94 | V-2  |
| Insulating material group              | II   |
| Insulating material                    | PA66 |

## Mechanical properties

### Mechanical data

|                 |    |
|-----------------|----|
| Open side panel | No |
|-----------------|----|

## Environmental and real-life conditions

### Ambient conditions

|                                 |   |
|---------------------------------|---|
| Degree of protection            | IP30 (Actuation area)<br>IP00 (Connection area) |
| Ambient temperature (operation) | -30 °C ... 60 °C                                |
| Humidity test                   | 240 h, 95 % RH, 40 °C                           |

## Standards and regulations

|                          |          |
|--------------------------|----------|
| Standards/specifications | EN 60934 |
| Standards/specifications | UL 1077  |

## Mounting

|               |                 |
|---------------|-----------------|
| Mounting type | on base element |
|---------------|-----------------|

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