

# Thermomagnetic device circuit breaker - TMC 1 M1 100 5,0A - 0914497

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Thermomagnetic circuit breaker, 1-pos., normal blow, 1 N/O contact, with universal foot for mounting on NS 32 or NS 35

RoHS

## Key Commercial Data

|              |                                                                                                         |
|--------------|---------------------------------------------------------------------------------------------------------|
| Packing unit | 6 pc                                                                                                    |
| GTIN         | <br>4 017918 009175 |
| GTIN         | 4017918009175                                                                                           |
| Sales Key    | 04                                                                                                      |

## Technical data

### General

|                                        |                 |
|----------------------------------------|-----------------|
| Number of levels                       | 2               |
| Number of connections                  | 4               |
| Mounting type                          | DIN rail: 35 mm |
| Color                                  | black           |
| Number of positions                    | 1               |
| Overvoltage category                   | II              |
| Insulating material                    | PA66            |
| Flammability rating according to UL 94 | V-2             |

### Electrical data

|                                                 |                             |
|-------------------------------------------------|-----------------------------|
| Fuse type                                       | Automatic device            |
| Rated surge voltage                             | 2.5 kV                      |
| Rated voltage                                   | 250 V AC                    |
|                                                 | 65 V DC                     |
| Rated current $I_N$                             | 5 A                         |
| Insulation resistance $R_{iso}$                 | > 100 M $\Omega$ (500 V DC) |
| Rated short-circuit switching capacity $I_{cn}$ | 400 A                       |

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## Technical data

### Electrical data

|                                  |                                           |
|----------------------------------|-------------------------------------------|
|                                  | 2500 A (32 V DC)                          |
| Short-circuit switching capacity | 5000 A (UL 1077: 277 V AC)                |
|                                  | 2000 A (UL 1077: 65 V DC)                 |
| Dielectric strength              | 3000 V AC (Actuation area)                |
|                                  | 3000 V AC (Main to auxiliary circuit)     |
| Switching cycles, max.           | 10000 (At 1 x I <sub>n</sub> , inductive) |
| Degree of pollution              | 2                                         |
| Overvoltage category             | II                                        |
| Insulating material group        | II                                        |

### Dimensions

|        |         |
|--------|---------|
| Height | 82.5 mm |
| Width  | 12.5 mm |
| Depth  | 96 mm   |

### Ambient conditions

|                                 |                        |
|---------------------------------|------------------------|
| Degree of protection            | IP30 (Actuation area)  |
|                                 | IP20 (Connection area) |
| Ambient temperature (operation) | -30 °C ... 60 °C       |

### Connection data

|                                                                                                        |                      |
|--------------------------------------------------------------------------------------------------------|----------------------|
| Conductor cross section solid min.                                                                     | 0.2 mm <sup>2</sup>  |
| Conductor cross section solid max.                                                                     | 6 mm <sup>2</sup>    |
| Conductor cross section flexible min.                                                                  | 0.2 mm <sup>2</sup>  |
| Conductor cross section flexible max.                                                                  | 4 mm <sup>2</sup>    |
| Conductor cross section AWG min.                                                                       | 24                   |
| Conductor cross section AWG max.                                                                       | 10                   |
| Conductor cross section flexible, with ferrule without plastic sleeve min.                             | 0.25 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule without plastic sleeve max.                             | 4 mm <sup>2</sup>    |
| Conductor cross section flexible, with ferrule with plastic sleeve min.                                | 0.25 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule with plastic sleeve max.                                | 2.5 mm <sup>2</sup>  |
| 2 conductors with same cross section, solid min.                                                       | 0.2 mm <sup>2</sup>  |
| 2 conductors with same cross section, solid max.                                                       | 0.75 mm <sup>2</sup> |
| 2 conductors with same cross section, stranded min.                                                    | 0.2 mm <sup>2</sup>  |
| 2 conductors with same cross section, stranded max.                                                    | 0.75 mm <sup>2</sup> |
| Two conductors with the same cross section stranded, with ferrule and without plastic sleeve, minimum  | 0.25 mm <sup>2</sup> |
| Two conductors with the same cross section stranded, with ferrule and without plastic sleeve, maximum  | 1 mm <sup>2</sup>    |
| Two conductors with the same cross section, flexible, with TWIN ferrules, with plastic sleeve, minimum | 0.5 mm <sup>2</sup>  |
| Two conductors with the same cross section, flexible, with TWIN ferrules, with plastic sleeve, maximum | 2.5 mm <sup>2</sup>  |
| Connection method                                                                                      | Screw connection     |

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## Technical data

### Connection data

|                           |        |
|---------------------------|--------|
| Stripping length          | 12 mm  |
| Internal cylindrical gage | A3     |
| Screw thread              | M3     |
| Tightening torque, min    | 0.6 Nm |
| Tightening torque max     | 0.8 Nm |

### Standards and Regulations

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

### Environmental Product Compliance

|            |                                                                                                     |
|------------|-----------------------------------------------------------------------------------------------------|
| REACH SVHC | Lead 7439-92-1                                                                                      |
| China RoHS | Environmentally Friendly Use Period = 50 years                                                      |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

## Classifications

### eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 27141116 |
| eCl@ss 4.0    | 27141100 |
| eCl@ss 4.1    | 27141100 |
| eCl@ss 5.0    | 27141100 |
| eCl@ss 5.1    | 27141100 |
| eCl@ss 6.0    | 27141100 |
| eCl@ss 7.0    | 27141116 |
| eCl@ss 8.0    | 27141116 |
| eCl@ss 9.0    | 27141116 |

### ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC000899 |
| ETIM 3.0 | EC000899 |
| ETIM 4.0 | EC000899 |
| ETIM 5.0 | EC000899 |
| ETIM 6.0 | EC000899 |
| ETIM 7.0 | EC000899 |

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211812 |
| UNSPSC 7.0901 | 39121411 |
| UNSPSC 11     | 39121411 |
| UNSPSC 12.01  | 39121411 |
| UNSPSC 13.2   | 39121410 |

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## Classifications

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 18.0 | 39121410 |
| UNSPSC 19.0 | 39121410 |
| UNSPSC 20.0 | 39121410 |
| UNSPSC 21.0 | 39121410 |

## Approvals

### Approvals

#### Approvals

CSA / UL Recognized / VDE Zeichengenehmigung / EAC / EAC

#### Ex Approvals

### Approval details

|     |                                                                                     |                                                                                                                                         |        |
|-----|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|--------|
| CSA |  | <a href="http://www.csagroup.org/services-industries/product-listing/">http://www.csagroup.org/services-industries/product-listing/</a> | 074317 |
|-----|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|--------|

|               |                                                                                     |                                                                                                                                                       |               |
|---------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| UL Recognized |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 140459 |
|---------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|

|                        |                                                                                     |                                                                                                                                                                                                           |          |
|------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| VDE Zeichengenehmigung |  | <a href="http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx">http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx</a> | 40029348 |
|------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|

|     |                                                                                     |  |               |
|-----|-------------------------------------------------------------------------------------|--|---------------|
| EAC |  |  | EAC-Zulassung |
|-----|-------------------------------------------------------------------------------------|--|---------------|

|     |                                                                                     |  |                         |
|-----|-------------------------------------------------------------------------------------|--|-------------------------|
| EAC |  |  | RU C-<br>DE.A*30.B01546 |
|-----|-------------------------------------------------------------------------------------|--|-------------------------|

## Accessories

### Accessories

#### DIN rail

## Thermomagnetic device circuit breaker - TMC 1 M1 100 5,0A - 0914497

### Accessories

DIN rail, unperforated - NS 35/ 7,5 CU UNPERF 2000MM - 0801762



DIN rail, unperforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Copper, uncoated, length: 2000 mm, color: copper-colored

DIN rail, unperforated - NS 32 CU/120QMM UNPERF 2000MM - 1201280



DIN rail, unperforated, G profile, width: 32 mm, height: 15 mm, similar to EN 60715, material: Copper, uncoated, length: 2000 mm, color: copper-colored

DIN rail, unperforated - NS 35/15 UNPERF 2000MM - 1201714



DIN rail, unperforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Steel, galvanized, passivated with a thick layer, length: 2000 mm, color: silver

DIN rail, unperforated - NS 32 CU/35QMM UNPERF 2000MM - 1201358



DIN rail, unperforated, G profile, width: 32 mm, height: 15 mm, acc. to EN 60715, material: Copper, uncoated, length: 2000 mm, color: copper-colored

DIN rail, unperforated - NS 32 AL UNPERF 2000MM - 1201028



DIN rail, unperforated, G profile, width: 32 mm, height: 15 mm, similar to EN 60715, material: Aluminum, uncoated, length: 2000 mm, color: silver

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### Accessories

DIN rail, unperforated - NS 32 UNPERF 2000MM - 1201015



DIN rail, unperforated, G profile, width: 32 mm, height: 15 mm, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, length: 2000 mm, color: silver

DIN rail perforated - NS 32 PERF 2000MM - 1201002



DIN rail perforated, G profile, width: 32 mm, height: 15 mm, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, length: 2000 mm, color: silver

DIN rail, unperforated - NS 35/15 CU UNPERF 2000MM - 1201895



DIN rail, unperforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Copper, uncoated, length: 2000 mm, color: copper-colored

DIN rail, unperforated - NS 35/15-2,3 UNPERF 2000MM - 1201798



DIN rail, unperforated, Standard profile 2.3 mm, width: 35 mm, height: 15 mm, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, length: 2000 mm, color: silver

DIN rail, unperforated - NS 35/15 AL UNPERF 2000MM - 1201756



DIN rail, unperforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Aluminum, uncoated, length: 2000 mm, color: silver

# Thermomagnetic device circuit breaker - TMC 1 M1 100 5,0A - 0914497

## Accessories

DIN rail perforated - NS 35/15 PERF 2000MM - 1201730



DIN rail perforated, Standard profile, width: 35 mm, height: 15 mm, similar to EN 60715, material: Steel, galvanized, passivated with a thick layer, length: 2000 mm, color: silver

DIN rail perforated - NS 35/ 7,5 PERF 2000MM - 0801733



DIN rail perforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, length: 2000 mm, color: silver

## End block

End clamp - E/UK 1 - 1201413



End clamps, for supporting the ends of double-level and three-level terminal blocks, width: 10 mm, color: gray

## Insertion bridge

Insertion bridge - EB 80-12 - 3009338



Insertion bridge, pitch: 12 mm, number of positions: 80, color: gray

## Screwdriver tools

Screwdriver - SZS 0,6X3,5 - 1205053



Actuation tool, for ST terminal blocks, insulated, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip

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PHOENIX CONTACT GmbH & Co. KG  
Flachsmarktstr. 8  
32825 Blomberg  
Germany  
Tel. +49 5235 300  
Fax +49 5235 3 41200  
<http://www.phoenixcontact.com>

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