

# Thermomagnetic device circuit breaker - TMC 1 M1 100 1,0A - 0914439


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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



## Key Commercial Data

|                                      |   |
|--------------------------------------|---|
| Packing unit                         | 1 pc  |
| GTIN                                 | <br>4 017918 009113 |
| GTIN                                 | 4017918009113   |
| Weight per Piece (excluding packing) | 66.660 g  |
| Custom tariff number                 | 85362010  |
| Country of origin                    | Germany   |

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

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## Technical data

### Electrical data

|   |                                       |
|---|---------------------------------------|
| Rated surge voltage                             | 2.5 kV                                |
| Rated voltage                                   | 250 V AC                              |
|   | 65 V DC                               |
| Rated current $I_N$                             | 1 A                                   |
| Insulation resistance $R_{iso}$                 | > 100 M $\Omega$ (500 V DC)           |
| Rated short-circuit switching capacity $I_{cn}$ | 400 A                                 |
|   | 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 $I_n$ , 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> |

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### Connection data

|  |                      |
|--|----------------------|
| 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     |
| 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 = 25;   |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

## Classifications

### eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 27141116 |
| eCl@ss 11.0   | 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 9.0    | 27141116 |

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## Classifications

### ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC000899 |
| ETIM 3.0 | EC000899 |
| ETIM 4.0 | 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 |
| UNSPSC 18.0   | 39121410 |
| UNSPSC 19.0   | 39121410 |
| UNSPSC 20.0   | 39121410 |
| UNSPSC 21.0   | 39121410 |

## Approvals

### Approvals

#### Approvals

CSA / UL Recognized / EAC / EAC / VDE Zeichengenehmigung

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

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## Approvals

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

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

|                        |  |  |          |
|------------------------|--|--|----------|
| 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/<br/>VDE-gepruefteProdukte/Seiten/Online-Suche.aspx</a> | 40029348 |
|------------------------|--|--|----------|

## Accessories

### Accessories

#### DIN rail

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

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

## Thermomagnetic device circuit breaker - TMC 1 M1 100 1,0A - 0914439

### Accessories

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

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

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### Accessories

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

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

### 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

## Thermomagnetic device circuit breaker - TMC 1 M1 100 1,0A - 0914439

### Accessories

#### Insertion bridge

Insertion bridge - EB 80-12 - 3009338



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

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#### 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