

## Thermomagnetic device circuit breaker - TMC 2 F1 120 3,0A - 0914837

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Thermomagnetic circuit breaker, 2-pos., fast blow, 1 N/O contact and 1 N/C contact, with universal foot for mounting on NS 32 or NS 35

RoHS

### Key Commercial Data

|                                      |                                                                                                         |
|--------------------------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit                         | 1 pc                                                                                                    |
| GTIN                                 | <br>4 017918 009519 |
| GTIN                                 | 4017918009519                                                                                           |
| Weight per Piece (excluding packing) | 150.000 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                    | 2               |
| 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           |

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## Technical data

### Electrical data

|                                                 |                                       |
|-------------------------------------------------|---------------------------------------|
| Rated voltage                                   | 65 V DC                               |
| Rated current $I_N$                             | 3 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 $I_k$          | 2000 A (UL 1077: 65 V DC)             |
| Dielectric strength                             | 3000 V AC (Actuation area)            |
|                                                 | 3000 V AC (Main to auxiliary circuit) |
|                                                 | 1500 V AC (Position to position)      |
| 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  | 25 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> |

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### Connection data

|                                                                                         |                      |
|-----------------------------------------------------------------------------------------|----------------------|
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.   | 0.25 mm <sup>2</sup> |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.   | 1 mm <sup>2</sup>    |
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min. | 0.5 mm <sup>2</sup>  |
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max. | 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 = 50                                                            |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

## Classifications

### eCl@ss

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

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### Classifications

#### ETIM

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

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### Approvals

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

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

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### Accessories

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

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

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### Accessories

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

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

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### 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