

## Thermomagnetic device circuit breaker - TMC 2 F1 120 4,0A - 0914840

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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

The illustration shows version TMC 1  
F1 100 1A



### Key commercial data

|                                      |            |
|--------------------------------------|------------|
| Packing unit                         | 1 pc       |
| Weight per Piece (excluding packing) | 136.43 GRM |
| 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               |
| Surge voltage category                  | II              |
| Insulating material                     | PA66            |
| Inflammability class according to UL 94 | V-2             |

#### Electrical data

|                     |                       |
|---------------------|-----------------------|
| Fuse type           | Automatic device      |
| Rated surge voltage | 2.5 kV                |
| Rated voltage       | 250 V AC (3 AC 433 V) |
|                     | 65 V DC               |
| Rated current $I_n$ | 4 A                   |

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## Technical data

### Electrical data

|                                                 |                                       |
|-------------------------------------------------|---------------------------------------|
| 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 $I_k$          | 5000 A UL 1077: 277/480 V             |
|                                                 | 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)      |
| Cycles, max.                                    | 10000 (At 1 x $I_n$ , inductive)      |
| Pollution degree                                | 2                                     |
| Surge voltage 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 stranded min.                                      | 0.2 mm <sup>2</sup>  |
| Conductor cross section stranded max.                                      | 4 mm <sup>2</sup>    |
| Conductor cross section AWG/kcmil min.                                     | 24                   |
| Conductor cross section AWG/kcmil max                                      | 10                   |
| Conductor cross section stranded, with ferrule without plastic sleeve min. | 0.25 mm <sup>2</sup> |
| Conductor cross section stranded, with ferrule without plastic sleeve max. | 4 mm <sup>2</sup>    |
| Conductor cross section stranded, with ferrule with plastic sleeve min.    | 0.25 mm <sup>2</sup> |
| Conductor cross section stranded, 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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## Technical data

### 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  |

## Classifications

### eCl@ss

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

### ETIM

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

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211812 |
| UNSPSC 7.0901 | 39121411 |
| UNSPSC 11     | 39121411 |

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## Classifications

### UNSPSC

|              |          |
|--------------|----------|
| UNSPSC 12.01 | 39121411 |
| UNSPSC 13.2  | 39121411 |

## Approvals

### Approvals

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### Approvals

CSA / UL Recognized / VDE Zeichengenehmigung / GOST

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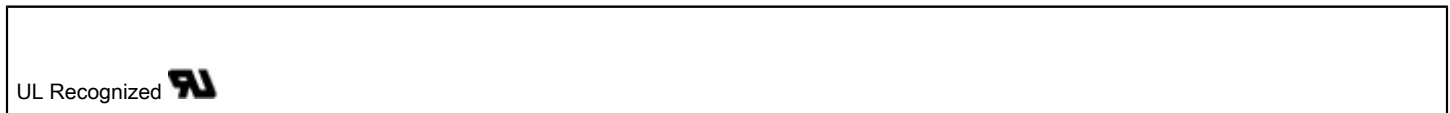
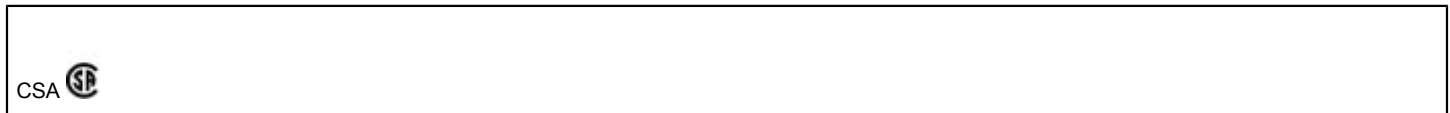
### Ex Approvals

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### Approvals submitted

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## Approval details



## Drawings

# Thermomagnetic device circuit breaker - TMC 2 F1 120 4,0A - 0914840

Diagram

