

## Thermomagnetic device circuit breaker - UT 6-TMC M 12A - 0916611

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Thermomagnetic circuit breaker, 1-pos., for DIN rail mounting

### Your advantages

- ✓ Simple feed-in due to bridging capability using CLIPLINE complete accessories
- ✓ High system availability, thanks to easy resetting
- ✓ Quick and easy identification with large-area marking options
- ✓ The right device for every application, thanks to a nominal current range of 0.5 to 16 A
- ✓ Space savings of 30 % compared to miniature circuit breakers owing to the compact width of 12.3 mm



### Key Commercial Data

|                                      |   |
|--------------------------------------|---|
| Packing unit                         | 6 pc  |
| GTIN                                 | <br>4 046356 449472 |
| GTIN                                 | 4046356449472   |
| Weight per Piece (excluding packing) | 64.510 g  |
| Custom tariff number                 | 85362010  |
| Country of origin                    | Czech Republic  |
| Sales Key                            | CLA122  |

### Technical data

#### General

|                       |                 |
|-----------------------|-----------------|
| Number of levels      | 1               |
| Number of connections | 2               |
| Mounting type         | DIN rail: 35 mm |
| Color                 | gray            |
| Number of positions   | 1               |
| Overvoltage category  | II              |

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## Technical data

### General

|  |      |
|--|------|
| Insulating material                    | PA66 |
| Flammability rating according to UL 94 | V0   |

### Electrical data

|   |                                   |
|---|-----------------------------------|
| Fuse type                                       | Automatic device                  |
| Rated surge voltage                             | 2.8 kV                            |
| Rated voltage                                   | 240 V AC (50/60 Hz)               |
|   | 28 V DC                           |
|   | 240 V AC (50/60 Hz)               |
|   | 28 V DC                           |
| Operating voltage                               | 50 V AC ... 264 V AC (48 - 62 Hz) |
|   | 5 V DC ... 30.8 V DC              |
| Rated current $I_N$                             | 12 A                              |
| Rated insulation voltage $U_i$                  | 440 V AC                          |
| Insulation resistance $R_{iso}$                 | > 100 M $\Omega$ (main contact)   |
| Required backup fuse                            | 25 A                              |
| Rated short-circuit switching capacity $I_{cn}$ | 200 A (240 V AC)                  |
|   | 400 A (28 V DC)                   |
| Dielectric strength                             | 2000 V                            |
| Switching cycles, max.                          | 6000 (at 1 x $I_n$ )              |
|   | 50 (at 1.5 x $I_n$ )              |
|   | 40 (at 6 x $I_n$ )                |
| Degree of pollution                             | 2                                 |
| Overvoltage category                            | II                                |

### Dimensions

|        |         |
|--------|---------|
| Height | 85.5 mm |
| Width  | 12.3 mm |
| Depth  | 89.5 mm |

### Ambient conditions

|                                 |                           |
|---------------------------------|---------------------------|
| Ambient temperature (operation) | -30 °C ... 60 °C          |
| Altitude                        | 2000 m (acc. to EN 60934) |
| Degree of protection            | IP40 (Actuation area)     |
|                                 | IP20 (Connection area)    |

### Connection data

|                                       |                     |
|---------------------------------------|---------------------|
| Conductor cross section solid min.    | 0.2 mm <sup>2</sup> |
| Conductor cross section solid max.    | 10 mm <sup>2</sup>  |
| Conductor cross section flexible min. | 0.2 mm <sup>2</sup> |
| Conductor cross section flexible max. | 10 mm <sup>2</sup>  |
| Conductor cross section AWG min.      | 24                  |
| Conductor cross section AWG max.      | 8                   |

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### Connection data

|  |                      |
|--|----------------------|
| 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.                             | 6 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.                                | 6 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.   | 2.5 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.  | 2.5 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  | 1.5 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 | 4 mm <sup>2</sup>    |
| Connection method  | Screw connection     |
| Stripping length   | 12 mm                |
| Screw thread   | M4                   |
| Tightening torque, min   | 1.5 Nm               |
| Tightening torque max  | 1.8 Nm               |

### Standards and Regulations

|                          |                  |
|--------------------------|------------------|
| Standards/specifications | EN 60934         |
|                          | UL 1077          |
|                          | CSA 22.2 No. 235 |
|                          | EAC              |

### Environmental Product Compliance

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



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