

## Thermomagnetic device circuit breaker - UT 6-TMC M 8A - 0916609

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

The figure shows the 10 A version

### Product Features

- ✓ Thermomagnetic circuit breakers feature a compact design, large-surface labeling options, and a double plug-in bridge shaft
- ✓ High level of system availability thanks to their reclosure function and clear status display
- ✓ Clear assignment of the relevant circuit breaker thanks to the large center labeling area



### Key commercial data

|                                      |                |
|--------------------------------------|----------------|
| Packing unit                         | 1 pc           |
| Weight per Piece (excluding packing) | 63.33 GRM      |
| Custom tariff number                 | 85362010       |
| Country of origin                    | Czech Republic |

### Technical data

#### General

|                                         |                 |
|-----------------------------------------|-----------------|
| Number of levels                        | 1               |
| Number of connections                   | 2               |
| Mounting type                           | DIN rail: 35 mm |
| Color                                   | gray            |
| Number of positions                     | 1               |
| Surge voltage category                  | II              |
| Insulating material                     | PA66            |
| Inflammability class according to UL 94 | V0              |

#### Electrical data

|           |                  |
|-----------|------------------|
| Fuse type | Automatic device |
|-----------|------------------|

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## Technical data

### Electrical data

|                                                 |                                   |
|-------------------------------------------------|-----------------------------------|
| 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 $I_n$                             | 8 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                            |
| Cycles, max.                                    | 6000 (at 1 x $I_n$ )              |
|                                                 | 50 (at 1.5 x $I_n$ )              |
|                                                 | 40 (at 6 x $I_n$ )                |
| Pollution degree                                | 2                                 |
| Surge voltage category                          | II                                |

### Dimensions

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

### Ambient conditions

|                                 |                        |
|---------------------------------|------------------------|
| Degree of protection            | IP40 (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.                                         | 10 mm <sup>2</sup>   |
| Conductor cross section stranded min.                                      | 0.2 mm <sup>2</sup>  |
| Conductor cross section stranded max.                                      | 10 mm <sup>2</sup>   |
| Conductor cross section AWG/kcmil min.                                     | 24                   |
| Conductor cross section AWG/kcmil max                                      | 8                    |
| 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. | 6 mm <sup>2</sup>    |

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## Technical data

### Connection data

|                                                                                         |                      |
|-----------------------------------------------------------------------------------------|----------------------|
| 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.                 | 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>  |
| 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.   | 1.5 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. | 4 mm <sup>2</sup>    |
| Connection method                                                                       | Screw connection     |
| Stripping length                                                                        | 10 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 |

## 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 |

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### Classifications

#### ETIM

|          |          |
|----------|----------|
| ETIM 4.0 | EC000899 |
| ETIM 5.0 | EC000899 |

#### UNSPSC

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

### Approvals

#### Approvals

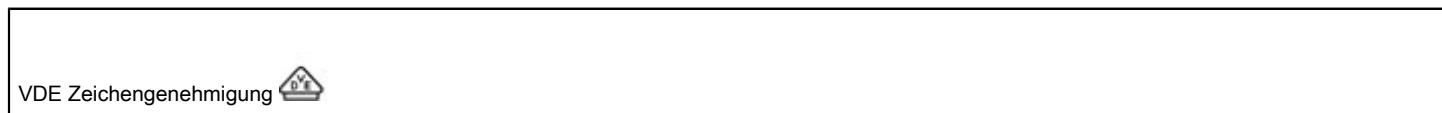
#### Approvals

CSA / UL Recognized / VDE Zeichengenehmigung / cUL Recognized / cULus Recognized

#### Ex Approvals

#### Approvals submitted

#### Approval details



## Thermomagnetic device circuit breaker - UT 6-TMC M 8A - 0916609

### Approvals

cUL Recognized 

cULus Recognized 

### Accessories

#### Accessories

#### Bridge

Plug-in bridge - FBS 2-6 - 3030336



Plug-in bridge, Number of positions: 2, Color: red

Plug-in bridge - FBS 3-6 - 3030242



Plug-in bridge, Number of positions: 3, Color: red

Plug-in bridge - FBS 4-6 - 3030255



Plug-in bridge, Number of positions: 4, Color: red

## Thermomagnetic device circuit breaker - UT 6-TMC M 8A - 0916609

### Accessories

Plug-in bridge - FBS 5-6 - 3030349



Plug-in bridge, Number of positions: 5, Color: red

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Plug-in bridge - FBS 10-6 - 3030271



Plug-in bridge, Number of positions: 10, Color: red

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Plug-in bridge - FBS 20-6 - 3030365



Plug-in bridge, Number of positions: 20, Color: red

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### Screwdriver tools

Screwdriver - SZS 1,0X4,0 VDE - 1205066



Screwdriver, slot-headed, VDE insulated, size: 1.0 x 4.0 x 100 mm, 2-component grip, with non-slip grip

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### Terminal marking

Marker for terminal blocks - UC-TM 12 - 0819194



Marker for terminal blocks, Sheet, white, Unlabeled, Can be labeled with: BLUEMARK CLED, BLUEMARK LED, Plotter, Mounting type: Snap into tall marker groove, For terminal block width: 12 mm, Lettering field: 11.45 x 10.5 mm

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## Accessories

Zack marker strip - ZB 12:UNPRINTED - 0812120



Zack marker strip, Strip, white, Unlabeled, Can be labeled with: Plotter, Mounting type: Snap into tall marker groove, For terminal block width: 12.2 mm, Lettering field: 12 x 10.5 mm

Warning label printed

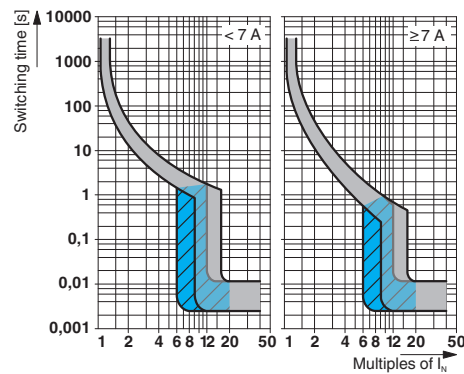
Warning label - WS UT 6 - 3047345



Warning sign for UT terminal blocks

## Drawings

Diagram



Trigger characteristic