

Thermomagnetic device circuit breaker - TMC 2 F1 120 5,0A - 0914853

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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 | 3 STK |
| GTIN | |
| GTIN | 4017918009533 |
| Sales Key | 04 |

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_GRP | II |
| Insulating material | PA66 |
| Flammability rating according to UL 94 | V-2 |

Electrical data

| | |
|--|---------------------|
| Fuse type | Automatic device |
| Rated surge voltage | 2.5 kV |
| Rated voltage | 65 V DC |
| Rated current I _N | 5 A |
| Insulation resistance R _{iso} | > 100 MΩ (500 V DC) |
| Rated short-circuit switching capacity I _{cn} | 400 A |
| | 2500 A (32 V DC) |

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| | |
|--|---------------------------------------|
| 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_GRP | 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 ² |
| Conductor cross section solid max. | 6 mm ² |
| Conductor cross section flexible min. | 0.2 mm ² |
| Conductor cross section flexible max. | 4 mm ² |
| 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 ² |
| Conductor cross section flexible, with ferrule without plastic sleeve max. | 4 mm ² |
| Conductor cross section flexible, with ferrule with plastic sleeve min. | 0.25 mm ² |
| Conductor cross section flexible, with ferrule with plastic sleeve max. | 2.5 mm ² |
| 2 conductors with same cross section, solid min. | 0.2 mm ² |
| 2 conductors with same cross section, solid max. | 0.75 mm ² |
| 2 conductors with same cross section, stranded min. | 0.2 mm ² |
| 2 conductors with same cross section, stranded max. | 0.75 mm ² |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, min. | 0.25 mm ² |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, max. | 1 mm ² |
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min. | 0.5 mm ² |
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max. | 2.5 mm ² |
| Connection method | Screw connection |
| Stripping length | 12 mm |

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

Approvals

Approvals

Approvals

CSA / UL Recognized / VDE Zeichengenehmigung / EAC / EAC

Ex Approvals

Approval details

| | | | |
|-----|--|---|--------|
| CSA | | http://www.csagroup.org/services-industries/product-listing/ | 074317 |
|-----|--|---|--------|

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|---------------|--|---|---------------|
| UL Recognized | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 140459 |
|---------------|--|---|---------------|

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| VDE Zeichengenehmigung | | http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx | 40029348 |
|------------------------|--|---|----------|

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

EAC



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