

## Thermomagnetic device circuit breaker - TMC 2 M1 120 5,0A - 0915030

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Thermomagnetic circuit breaker, 2-pos., normal 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 STK
Weight per Piece (excluding packing)	133.330 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
Rated voltage	250 V AC (3 AC 433 V)
	65 V DC

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## Technical data

### Electrical data

Rated current $I_N$	5 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 $I_k$	5000 A
	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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## 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

## Drawings

### Diagram

## Approvals

### Approvals

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#### Approvals

CSA / UL Recognized / VDE Zeichengenehmigung / EAC

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#### Ex Approvals

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### Approval details

CSA  <a href="http://www.csagroup.org/services/testing-and-certification/certified-product-listing/074317">http://www.csagroup.org/services/testing-and-certification/certified-product-listing/074317</a>
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### Approvals

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

VDE Zeichengenehmigung  <http://www.vde.com/en/Institute/OnlineService/VDE-approved-products/Pages/Online-Search.aspx> 40029348

EAC 7500651.22.01.00241