

Thermomagnetic device circuit breaker - TMC 1 F1 100 3,0A - 0914112

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Thermomagnetic device circuit breaker, Number of positions: 1, Connection method: Screw connection, Cross section: 0.2 mm²- 6 mm², AWG: 24 - 10, Nominal current: 3 A, Width: 12.5 mm, Fuse type: Automatic device, Mounting type: DIN rail: 35 mm, Color: black

The illustration shows version TMC 1 F1 100 1A

Key Commercial Data

Packing unit	1 STK
Weight per Piece (excluding packing)	70.640 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	1
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
	65 V DC

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Electrical data

Rated current I_N	3 A
Insulation resistance R_{iso}	> 100 M Ω (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 V AC
	2000 A UL 1077: 65 V DC
Dielectric strength	3000 V AC (Actuation area)
	3000 V AC (Main to auxiliary circuit)
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	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 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

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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
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

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

Drawings

Diagramal drawing

Approvals

Approvals

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CSA / UL Recognized / VDE Zeichengenehmigung / EAC / EAC

Ex Approvals

Approval details

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Approvals

CSA  <http://www.csagroup.org/services/testing-and-certification/certified-product-listing/074317>

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 EAC-Zulassung

EAC 7500651.22.01.00241