

Thermomagnetic device circuit breaker - TMC 1 F1 100 12,0A - 0914170

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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: 12 A, width: 12.5 mm, fuse type: Automatic device, mounting type: DIN rail: 35 mm, Color: black

RoHS

Key Commercial Data

Packing unit	6 pc
GTIN	 4 017918 008857
GTIN	4017918008857
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	1
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	12 A
Insulation resistance R _{iso}	> 100 MΩ (500 V DC)
Rated short-circuit switching capacity I _{cn}	2500 A (32 V DC)
Short-circuit switching capacity I _k	2000 A (UL 1077: 65 V DC)

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Electrical data

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_GRP	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
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

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Connection data

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
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Approvals

Approvals

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CSA / UL Recognized / VDE Zeichengenehmigung / 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			RU C- DE.A*30.B01546
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