Thermomagnetic device circuit breaker - TMC 2 F1 120 4,0A - 0914840

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The illustration shows version TMC 1 F1 100 1A

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

Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	136.43 GRM
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
Surge voltage category	II
Insulating material	PA66
Inflammability class 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
Rated current I_n	4 A

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Insulation resistance R_{iso}	> 100 MΩ (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: 277/480 V
	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)
Cycles, max.	10000 (At 1 x I_n, inductive)
Pollution degree	2
Surge voltage 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 mm²
Conductor cross section solid max.	6 mm²
Conductor cross section stranded min.	0.2 mm²
Conductor cross section stranded max.	4 mm²
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	10
Conductor cross section stranded, with ferrule without plastic sleeve min.	0.25 mm²
Conductor cross section stranded, with ferrule without plastic sleeve max.	4 mm²
Conductor cross section stranded, with ferrule with plastic sleeve min.	0.25 mm²
Conductor cross section stranded, with ferrule with plastic sleeve max.	2.5 mm²
2 conductors with same cross section, solid min.	0.2 mm²
2 conductors with same cross section, solid max.	0.75 mm²
2 conductors with same cross section, stranded min.	0.2 mm²
2 conductors with same cross section, stranded max.	0.75 mm²

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2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.	0.25 mm²
2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.	1 mm²
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.	0.5 mm²
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.	2.5 mm²
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

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
ETIM 4.0	EC000899
ETIM 5.0	EC000899

UNSPSC

UNSPSC 6.01	30211812
UNSPSC 7.0901	39121411
UNSPSC 11	39121411

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Classifications

UNSPSC

UNSPSC 12.01	39121411
UNSPSC 13.2	39121411

Approvals

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CSA / UL Recognized / VDE Zeichengenehmigung / GOST

Ex Approvals

Approvals submitted

Approval details

CSA

UL Recognized

VDE Zeichengenehmigung

GOST

Drawings

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Diagram