

TMC 1 F1 100 8,0A - Thermomagnetic device circuit breaker

0914154
<https://www.phoenixcontact.com/pc/products/0914154>

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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: 8 A, fuse type: Automatic device, mounting type: DIN rail: 35 mm

Commercial data

Item number	0914154
Packing unit	6 pc
Minimum order quantity	1 pc
Sales key	04
Product key	CLA121
Catalog page	Page 282 (CL-2002)
GTIN	4017918008833
Weight per piece (including packing)	67.51 g
Weight per piece (excluding packing)	67.51 g
Customs tariff number	85362010
Country of origin	DE

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Technical data

Product properties

Product type	Thermomagnetic device circuit breakers
Product family	TMC
Type	DIN rail module, one-piece
Number of positions	1
Number of connections	4
Number of rows	2
No. of channels	1

Insulation characteristics

Overvoltage category	II
Degree of pollution	2

Electrical properties

Fuse type	Automatic device
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General

Rated voltage	65 V DC
Rated current I_N	8 A
Rated surge voltage	2.5 kV
Insulation resistance R_{iso}	> 100 M Ω (500 V DC)
Auxiliary circuit	240 V AC / 1 A (Low-induction)
	65 V AC / 1 A (Low-induction)
Tripping method	TM (thermomagnetic)
Device resistance	0.025 Ω
Rated short-circuit switching capacity I_{cn}	2500 A (32 V DC)
Short-circuit switching capacity	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)
Fuse	F1 (fast blow)

Indicator/remote signaling

Connection name	Auxiliary contact
Operating voltage	250 V AC
	65 V DC
Operating current	8 A AC (Low-induction)

Connection data

Main contact

Screw thread	M3
Tightening torque	0.6 ... 0.8 Nm

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Stripping length	12 mm
Internal cylindrical gage	A3
Conductor cross section rigid	0.2 mm² ... 6 mm²
Cross section AWG	24 ... 10 (converted acc. to IEC)
Conductor cross section flexible	0.2 mm² ... 4 mm²
Conductor cross-section flexible (ferrule without plastic sleeve)	0.25 mm² ... 4 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	0.25 mm² ... 2.5 mm²
2 conductors with same cross section, solid	0.2 mm² ... 0.75 mm²
2 conductors with same cross section, flexible	0.2 mm² ... 0.75 mm²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.25 mm² ... 1 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² ... 2.5 mm²
Nominal current	8 A

Auxiliary contact

Screw thread	M3
Tightening torque	0.6 ... 0.8 Nm
Stripping length	12 mm
Internal cylindrical gage	A1
Conductor cross section rigid	0.2 mm² ... 2.5 mm²
Cross section AWG	24 ... 14 (converted acc. to IEC)
Conductor cross section flexible	0.2 mm² ... 1.5 mm²
Conductor cross-section flexible (ferrule without plastic sleeve)	0.25 mm² ... 2.5 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	0.25 mm² ... 1.5 mm²
2 conductors with same cross section, solid	0.2 m² ... 0.75 m²
2 conductors with same cross section, flexible	0.2 m² ... 0.75 mm²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.25 mm² ... 0.5 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² ... 0.75 mm²

Main contact

Connection method	Screw connection
Screw thread	M3
Tightening torque	0.6 Nm ... 0.8 Nm
Stripping length	12 mm
Conductor cross section flexible	0.2 mm² ... 4 mm²
Conductor cross section rigid	0.2 mm² ... 6 mm²
Conductor cross section AWG	24 ... 10
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm² ... 2.5 mm²
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm² ... 4 mm²

Auxiliary contact

Connection method	Screw connection
Screw thread	M3

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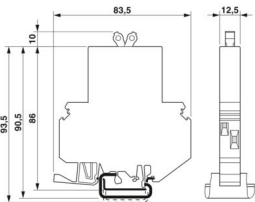


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Tightening torque	0.6 Nm ... 0.8 Nm
Stripping length	12 mm
Conductor cross section flexible	0.2 mm² ... 1.5 mm²
Conductor cross section rigid	0.2 mm² ... 2.5 mm²
Conductor cross section AWG	24 ... 14
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm² ... 1.5 mm²
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm² ... 2.5 mm²

Dimensions

Dimensional drawing	
Width	12.5 mm
Height	82.5 mm
Depth	96 mm

Material specifications

Color	black (RAL 9005)
Flammability rating according to UL 94	V-2
Insulating material group	II
Insulating material	PA66

Mechanical properties

Mechanical data

Open side panel	No
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Environmental and real-life conditions

Ambient conditions

Degree of protection	IP30 (Actuation area) IP20 (Connection area)
Ambient temperature (operation)	-30 °C ... 60 °C
Humidity test	240 h, 95 % RH, 40 °C

Standards and regulations

Standards/specifications	EN 60934
Standards/specifications	UL 1077

Mounting

Mounting type	DIN rail: 35 mm
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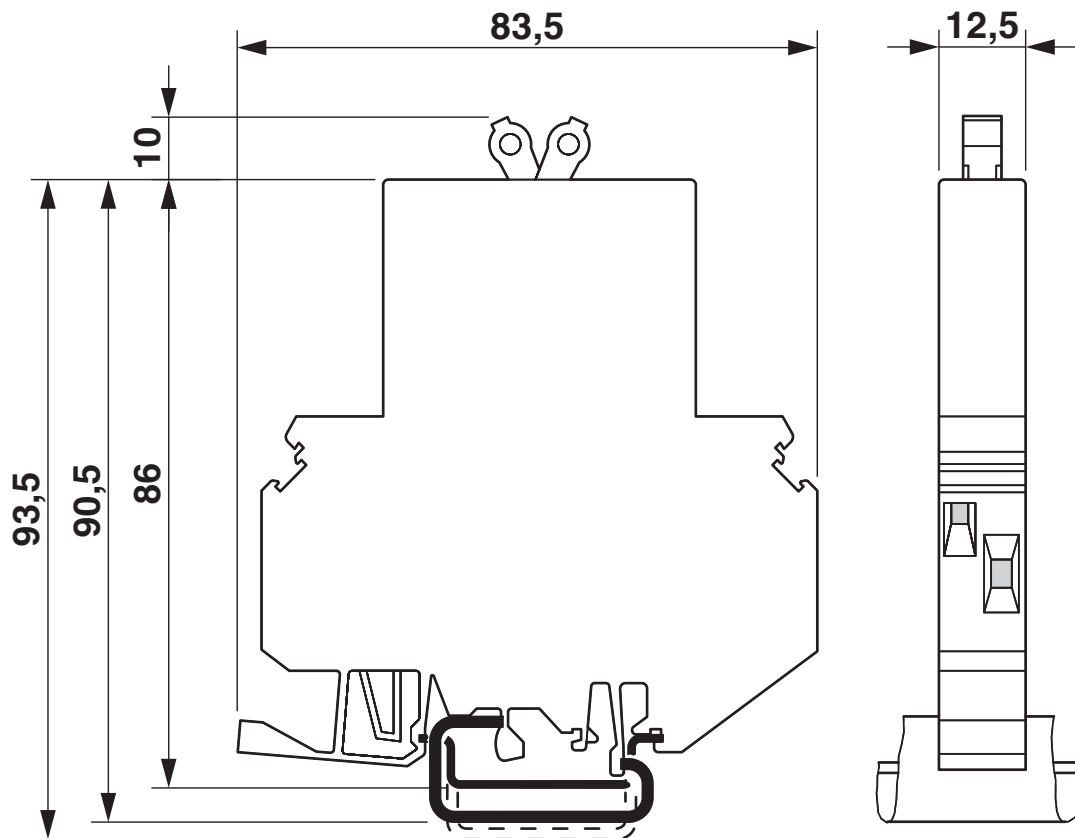


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Drawings

Dimensional drawing



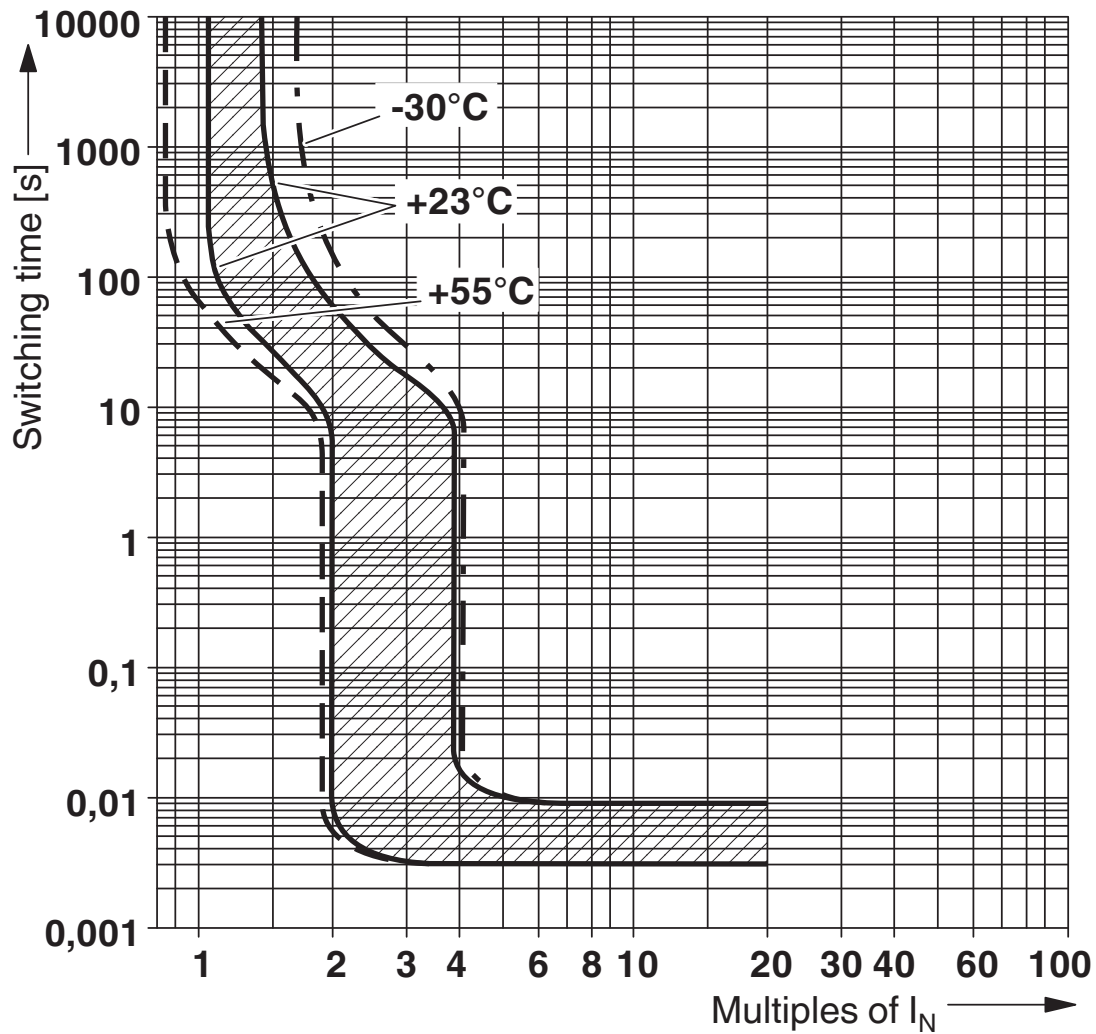
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Diagram



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Approvals

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CSA

Approval ID: 074317



UL Recognized

Approval ID: FILE E 140459



EAC

Approval ID: RU C-DE.A*30.B01546



VDE Zeichengenehmigung

Approval ID: 40029348

UAE-RoHS

Approval ID: 23-10-88786

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Classifications

ECLASS

ECLASS-11.0	27141116
ECLASS-12.0	27141116
ECLASS-13.0	27140401

ETIM

ETIM 9.0	EC000899
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UNSPSC

UNSPSC 21.0	39121400
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Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)
China RoHS	
Environment friendly use period (EFUP)	EFUP-25
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	46276305-e2df-4e14-aea4-b4948b5a92ae

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