

TMC 3 M1 122 16,0A - Thermomagnetic device circuit breaker

0915441
<https://www.phoenixcontact.com/us/products/0915441>

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Thermal-magnetic circuit breaker, 3-pos., normal blow, 1 N/O contact and 2 N/C contacts, with universal foot for mounting on NS 32 or NS 35

Commercial data

Item number	0915441
Packing unit	2 pc
Minimum order quantity	2 pc
Note	Made to order (non-returnable)
Sales key	CL04
Product key	CLA121
Catalog page	Page 282 (CL-2002)
GTIN	4017918010126
Weight per piece (including packing)	186.8 g
Weight per piece (excluding packing)	186.8 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	3
Number of connections	4
Number of rows	2

Insulation characteristics

Overvoltage category	II
Degree of pollution	2

Electrical properties

Fuse type	Automatic device
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General

Rated voltage	250 V AC (3 AC 433 V)
	65 V DC
Rated current I_N	16 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)
Rated short-circuit switching capacity I_{cn}	800 A
	2500 A (32 V DC)
Short-circuit switching capacity	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 $1 \times I_N$, inductive)
Fuse	M1 (normal blow)

Connection data

Main contact

Screw thread	M3
Tightening torque	0.6 ... 0.8 Nm
Stripping length	12 mm
Internal cylindrical gage	A3
Conductor cross section rigid	0.2 mm ² ... 6 mm ²
Cross section AWG	24 ... 10 (converted acc. to IEC)

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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	16 A
Nominal voltage	250 V AC
	65 V DC

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 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 ... 0.5 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² ... 0.75 mm²
Nominal current	16 A
Nominal voltage	250 V AC
	65 V DC

Dimensions

Dimensional drawing	
Width	37.5 mm
Height	82.5 mm
Depth	96 mm

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Material specifications

Flammability rating according to UL 94	V2
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

Mounting

Mounting type	DIN rail: 35 mm
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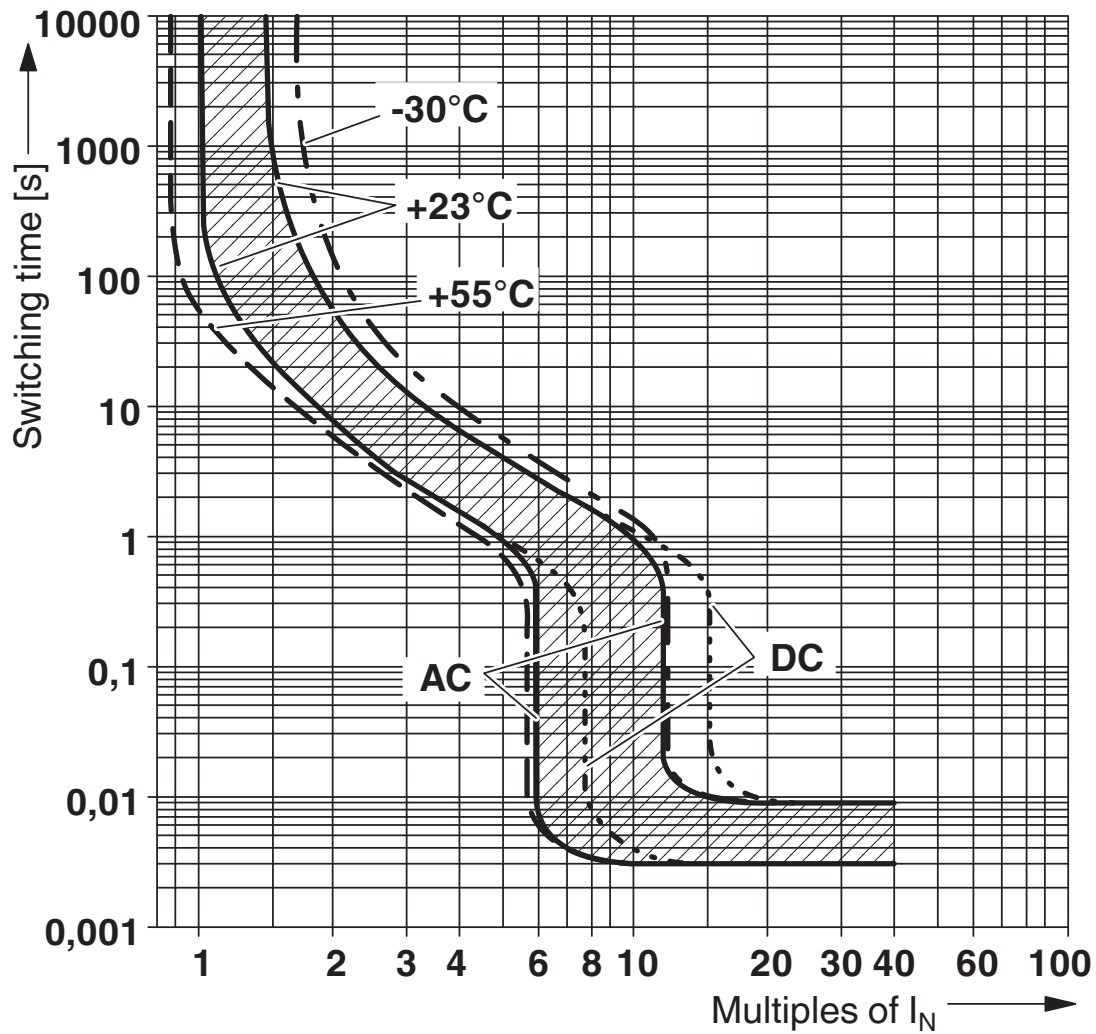


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Drawings

Diagram



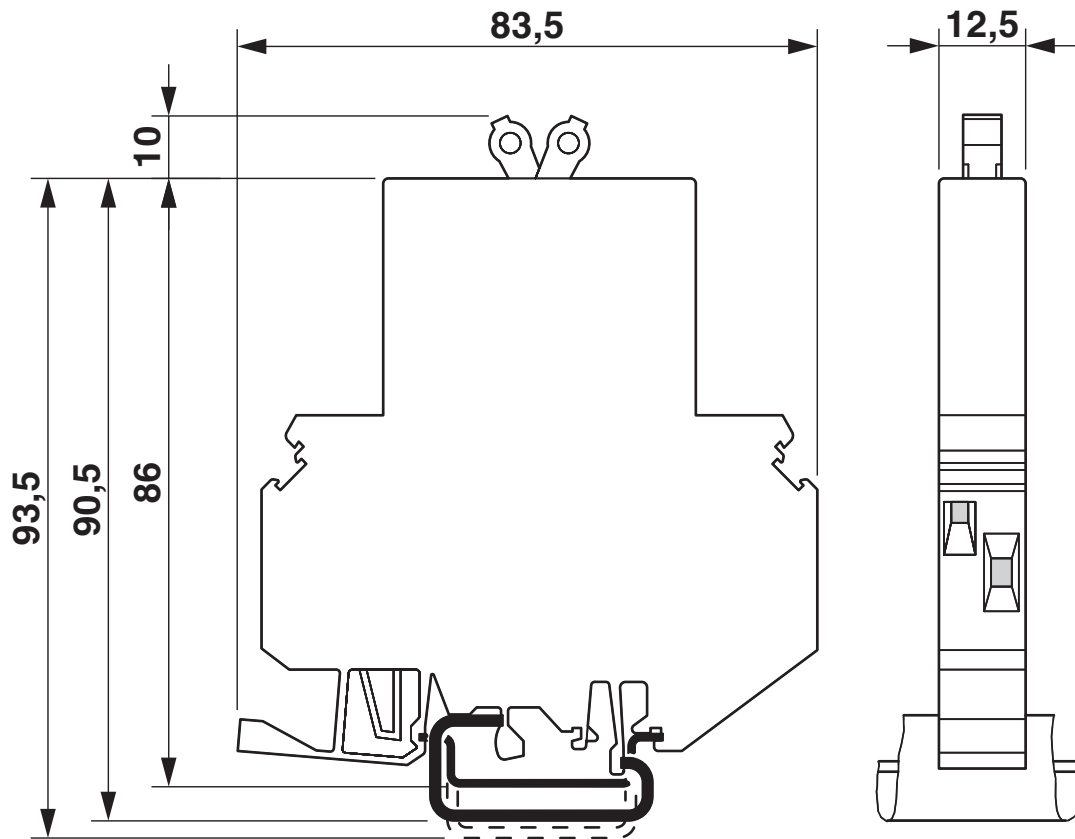
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Dimensional drawing



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Environmental product compliance

China RoHS	
Environment friendly use period (EFUP)	EFUP-50
	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.)	No substance above 0.1 wt%

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Accessories



Note: Applying some accessories below might limit this product.

EB 80-12 - Insertion bridge

3009338

<https://www.phoenixcontact.com/us/products/3009338>



Insertion bridge, pitch: 12 mm, number of positions: 80, color: gray



Max. current carrying capacity: 50 A

SZS 0,6X3,5 - Screwdriver

1205053

<https://www.phoenixcontact.com/us/products/1205053>



Actuation tool, for ST terminal blocks, insulated, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip

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NS 35/ 7,5 PERF 2000MM - DIN rail perforated

0801733

<https://www.phoenixcontact.com/us/products/0801733>



DIN rail perforated, Pack of 25 (50 m), acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile, color: silver

NS 35/ 7,5 CU UNPERF 2000MM-VPE 10 - DIN rail, unperforated

0801762

<https://www.phoenixcontact.com/us/products/0801762>



DIN rail, unperforated, Pack of 10 (20 m), acc. to EN 60715, material: Copper, uncoated, Standard profile, color: copper-colored

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NS 32 CU/120QMM UNPERF 2000MM - DIN rail, unperforated

1201280

<https://www.phoenixcontact.com/us/products/1201280>



DIN rail, unperforated, similar to EN 60715, material: Copper, uncoated, G profile, color: copper-colored

NS 32 AL UNPERF 2000MM - DIN rail, unperforated

1201028

<https://www.phoenixcontact.com/us/products/1201028>



DIN rail, unperforated, similar to EN 60715, material: Aluminum, uncoated, G profile, color: silver

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NS 35/15 UNPERF 2000MM - DIN rail, unperforated

1201714

<https://www.phoenixcontact.com/us/products/1201714>



DIN rail, unperforated, Pack of 25 (50 m), similar to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile, color: silver

NS 32 CU/35QMM UNPERF 2000MM-VPE 10 - DIN rail, unperforated

1201358

<https://www.phoenixcontact.com/us/products/1201358>



DIN rail, unperforated, Pack of 10 (20 m), acc. to EN 60715, material: Copper, uncoated, G profile, color: copper-colored

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NS 32 UNPERF 2000MM-VPE 10 - DIN rail, unperforated

1201015

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DIN rail, unperforated, Pack of 10 (20 m), acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, G profile, color: silver

NS 32 PERF 2000MM-VPE 10 - DIN rail perforated

1201002

<https://www.phoenixcontact.com/us/products/1201002>



DIN rail perforated, Pack of 10 (20 m), acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, G profile, color: silver

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NS 35/15 CU UNPERF 2000MM-VPE 10 - DIN rail, unperforated

1201895

<https://www.phoenixcontact.com/us/products/1201895>



DIN rail, unperforated, Pack of 10 (20 m), similar to EN 60715, material: Copper, uncoated, Standard profile, color: copper-colored

NS 35/15-2,3 UNPERF 2000MM-VPE 10 - DIN rail, unperforated

1201798

<https://www.phoenixcontact.com/us/products/1201798>



DIN rail, unperforated, Pack of 10 (20 m), acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile 2.3 mm, color: silver

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NS 35/15 AL UNPERF 2000MM - DIN rail, unperforated

1201756

<https://www.phoenixcontact.com/us/products/1201756>



DIN rail, unperforated, similar to EN 60715, material: Aluminum, uncoated, Standard profile, color: silver

NS 35/15 PERF 2000MM - DIN rail perforated

1201730

<https://www.phoenixcontact.com/us/products/1201730>



DIN rail perforated, Pack of 25 (50 m), similar to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile, color: silver

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E/UK 1 - End bracket

1201413

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End clamps, for supporting the ends of double-level and three-level terminal blocks, width: 10 mm, color: gray

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