

TMC 71D 12A - Miniature Circuit Breaker



1020046

<https://www.phoenixcontact.com/us/products/1020046>

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Miniature Circuit Breaker, 1-position, use: Supplementary Protector (UL 1077), for protection against overcurrent up to a short-circuit current of 7.5 kA. Supplementary protector; OC; UG-EA,B,D., tripping characteristic: D, mounting type: NS 35/..., rated current: 12 A

Product description

CCC marking on the product is only present on products purchased from Phoenix Contact China.

Your advantages

- Can be used worldwide due to international approvals
- Suitable for various grid types, as it is available in 1-, 2-, 3-pos. versions
- Ideally coordinated protection due to various tripping characteristics and a wide selection of nominal currents
- Reduced inventory because of suitability for AC and DC applications
- Optional accessories enable remote control and monitoring

Commercial data

Item number	1020046
Packing unit	12 pc
Minimum order quantity	1 pc
Sales key	CL09
Product key	CLA126
GTIN	4055626509310
Weight per piece (including packing)	113,300 g
Weight per piece (excluding packing)	117 g
Customs tariff number	85362010
Country of origin	CN

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Technical data

Product properties

Product type	Circuit breakers
Product family	TMC 7
Type	DIN rail module, one-piece
Number of positions	1
Mechanical service life	20000
Special properties	Supplementary Protector (UL 1077), for protection against overcurrent up to a short-circuit current of 7.5 kA. Supplementary protector; OC; UG- EA,B,D.

Electrical properties

Service life electrical	6000
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General

Operating voltage	277 V AC
	60 V DC
Rated current I_N	12 A
Tripping method	TM (thermal-magnetic)
Rated short-circuit switching capacity I_{cn}	7.5 kA (240 V AC/ 60 V DC)
	5 kA (277 V AC)
Fuse	D
Contact switching type	none

Connection data

Conductor cross-section rigid	1 mm ² ... 35 mm ²
Cross section AWG	18 ... 2 (converted acc. to IEC)
Conductor cross-section flexible	1 mm ² ... 35 mm ²
Connection method	Screw connection
Tightening torque, min	2 Nm
Tightening torque	2 Nm
Stripping length	11 mm ... 12 mm
Conductor cross-section flexible max.	35 mm ²
Conductor cross-section, rigid max.	35 mm ²
Conductor cross-section flexible	1 mm ² ... 35 mm ²
Conductor cross-section rigid	1 mm ² ... 35 mm ²
Conductor cross-section AWG	18 ... 2

Dimensions

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Dimensional drawing	
Width	17.6 mm
Height	84.3 mm
Depth	75.9 mm (incl. DIN rail 7.5 mm)

Material specifications

Color	light gray (RAL 7035)
	light gray (RAL 7035)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-35 °C ... 70 °C
Humidity test	48 h, 95% RH, 40°C (IEC 60068-2-78)
Shock (operation)	30g (11 ms) (IEC 60068-2-11, test Ea)
Vibration (operation)	±0,38 mm (10 Hz ... 57 Hz), 5g (57 Hz ... 500 Hz) (Sinusoidal test to IEC 60068-2-6, Test Fc. 10 frequency cycles per axis)

Standards and regulations

Standards/specifications	UL 1077
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Mounting

Mounting type	NS 35/...
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Drawings

Dimensional drawing



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Diagram



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Approvals

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cUL Recognized

Approval ID: FILE E 140459



UL Recognized

Approval ID: FILE E 140459



TÜV Rheinland

Approval ID: R 50531587



CCC

Approval ID: 2024010307673885

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Classifications

ECLASS

ECLASS-13.0	27140401
ECLASS-15.0	27140401

ETIM

ETIM 10.0	EC003538
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UNSPSC

UNSPSC 21.0	39121410
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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EF3.1 Climate Change

CO2e kg	2.249 kg CO2e
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