

TMC 72C 12A - Miniature Circuit Breaker



1020003
<https://www.phoenixcontact.com/us/products/1020003>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Thermal-magnetic Miniature Circuit Breaker, 2-position, use: Supplementary Protection (UL 1077), for protection against overload up to a short-circuit current of 7.5 kA, tripping characteristic: C, mounting type: NS 35/..., rated current: 12 A

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	1020003
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	CL09
Product key	CLA126
GTIN	4055626508894
Weight per piece (including packing)	222.222 g
Weight per piece (excluding packing)	222.222 g
Customs tariff number	85362010
Country of origin	CN

TMC 72C 12A - Miniature Circuit Breaker



1020003
<https://www.phoenixcontact.com/us/products/1020003>

Technical data

Product properties

Product type	Circuit breakers
Product family	TMC 7
Type	DIN rail module, one-piece
Number of positions	2
Mechanical service life	20000
Special properties	Supplementary Protection (UL 1077), for protection against overload up to a short-circuit current of 7.5 kA Thermal-magnetic

Electrical properties

Service life electrical	6000
-------------------------	------

General

Operating voltage	277 V AC (277/480Y, 240D)
	125 V DC (two poles in series)
Rated current I _N	12 A
Tripping method	TM (thermal-magnetic)
Rated short-circuit switching capacity I _{cn}	5 kA (277/480Y, 240D)
	7.5 kA (125 V DC, two poles in series)
Fuse	C
Contact switching type	none

Connection data

Conductor cross section rigid	1 mm² ... 35 mm²
Cross section AWG	18 ... 2 (converted acc. to IEC)
Conductor cross section flexible	1 mm² ... 35 mm²
Connection method	Screw connection
Tightening torque, min	2 Nm
Stripping length	11 mm ... 12 mm
Conductor cross section flexible max.	35 mm²
Conductor cross section, rigid max.	35 mm²

Dimensions

Dimensional drawing	
Width	35.3 mm
Height	84.3 mm
Depth	76.6 mm (incl. DIN rail 7.5 mm)

TMC 72C 12A - Miniature Circuit Breaker



1020003

<https://www.phoenixcontact.com/us/products/1020003>

Material specifications

Color	light gray (RAL 7035)
	gray (RAL 7042)

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 (10-57 Hz), 5g (57...500 Hz) (Sinusoidal test to IEC 60068-2-6, Test Fc. 10 frequency cycles per axis)

Standards and regulations

Standards/specifications	UL 1077
Standards/specifications	IEC 60947-2

Mounting

Mounting type	NS 35/...
---------------	-----------

TMC 72C 12A - Miniature Circuit Breaker

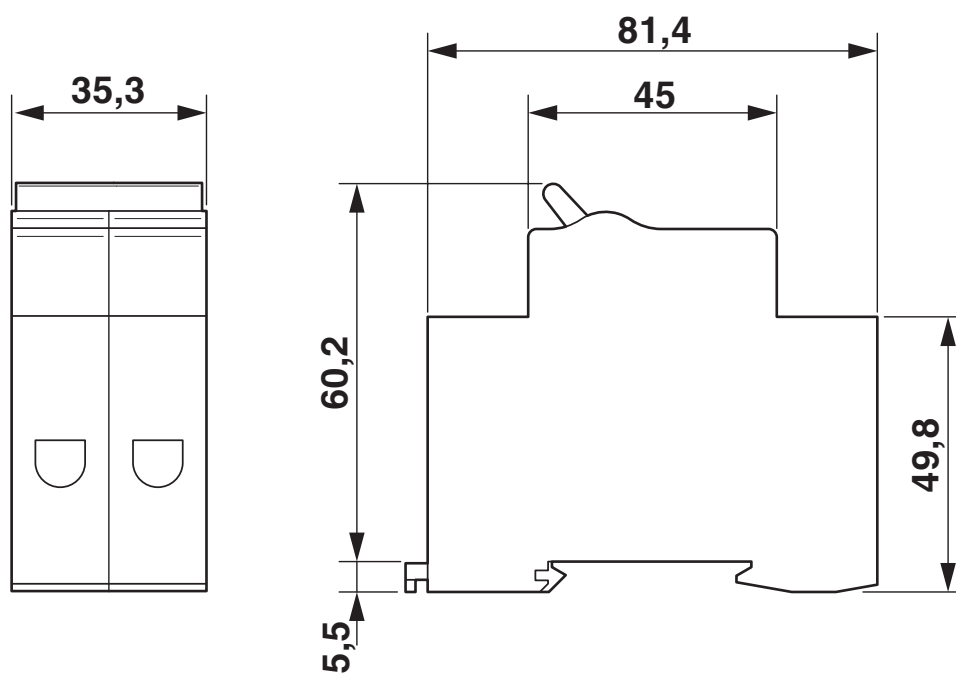
1020003

<https://www.phoenixcontact.com/us/products/1020003>



Drawings

Dimensional drawing



TMC 72C 12A - Miniature Circuit Breaker

1020003

<https://www.phoenixcontact.com/us/products/1020003>



Diagram



TMC 72C 12A - Miniature Circuit Breaker



1020003

<https://www.phoenixcontact.com/us/products/1020003>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1020003>



cUL Recognized
Approval ID: FILE E 140459



UL Recognized
Approval ID: FILE E 140459



CCC
Approval ID: 2024010307673885

TMC 72C 12A - Miniature Circuit Breaker



1020003

<https://www.phoenixcontact.com/us/products/1020003>

Classifications

ECLASS

ECLASS-13.0	27140401
-------------	----------

ETIM

ETIM 9.0	EC003538
----------	----------

UNSPSC

UNSPSC 21.0	39121410
-------------	----------

TMC 72C 12A - Miniature Circuit Breaker



1020003
<https://www.phoenixcontact.com/us/products/1020003>

Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes, No exemptions
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%

Phoenix Contact 2025 © - all rights reserved
<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com