TMC 72C 20A - Miniature Circuit Breaker

1020007

https://www.phoenixcontact.com/us/products/1020007

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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: 20 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	1020007
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL09
Product key	CLA126
GTIN	4055626508931
Weight per piece (including packing)	232.32 g
Weight per piece (excluding packing)	222.222 g
Customs tariff number	85362010
Country of origin	CN

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

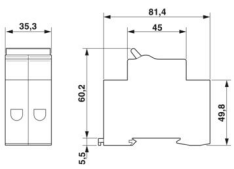
General

Operating voltage	277 V AC (277/480Y, 240D)
	125 V DC (two poles in series)
Rated current I_N	20 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)

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 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

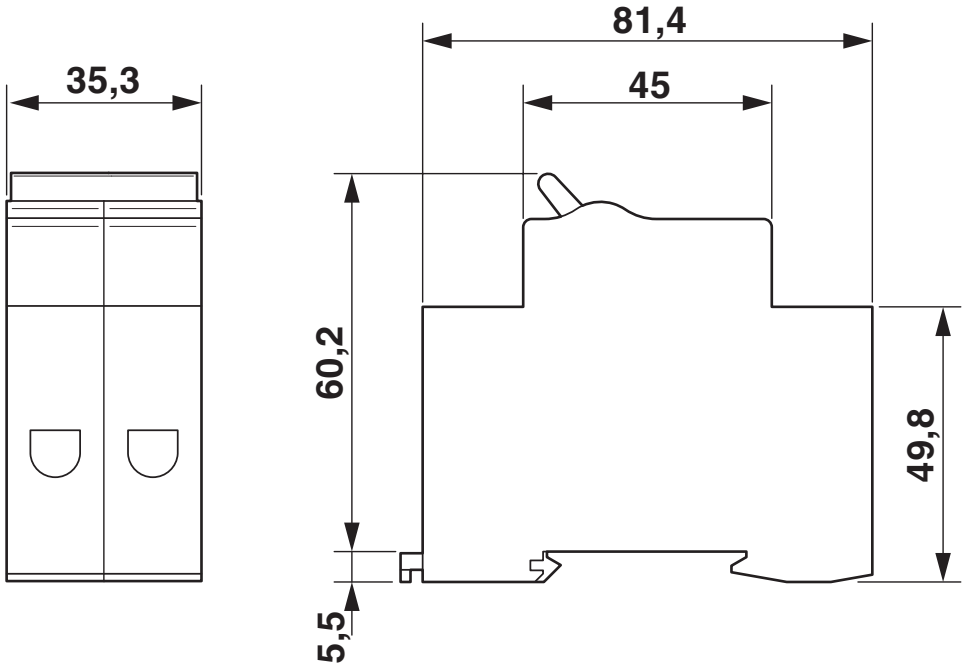
Standards/specifications	UL 1077
Standards/specifications	IEC 60947-2

Mounting

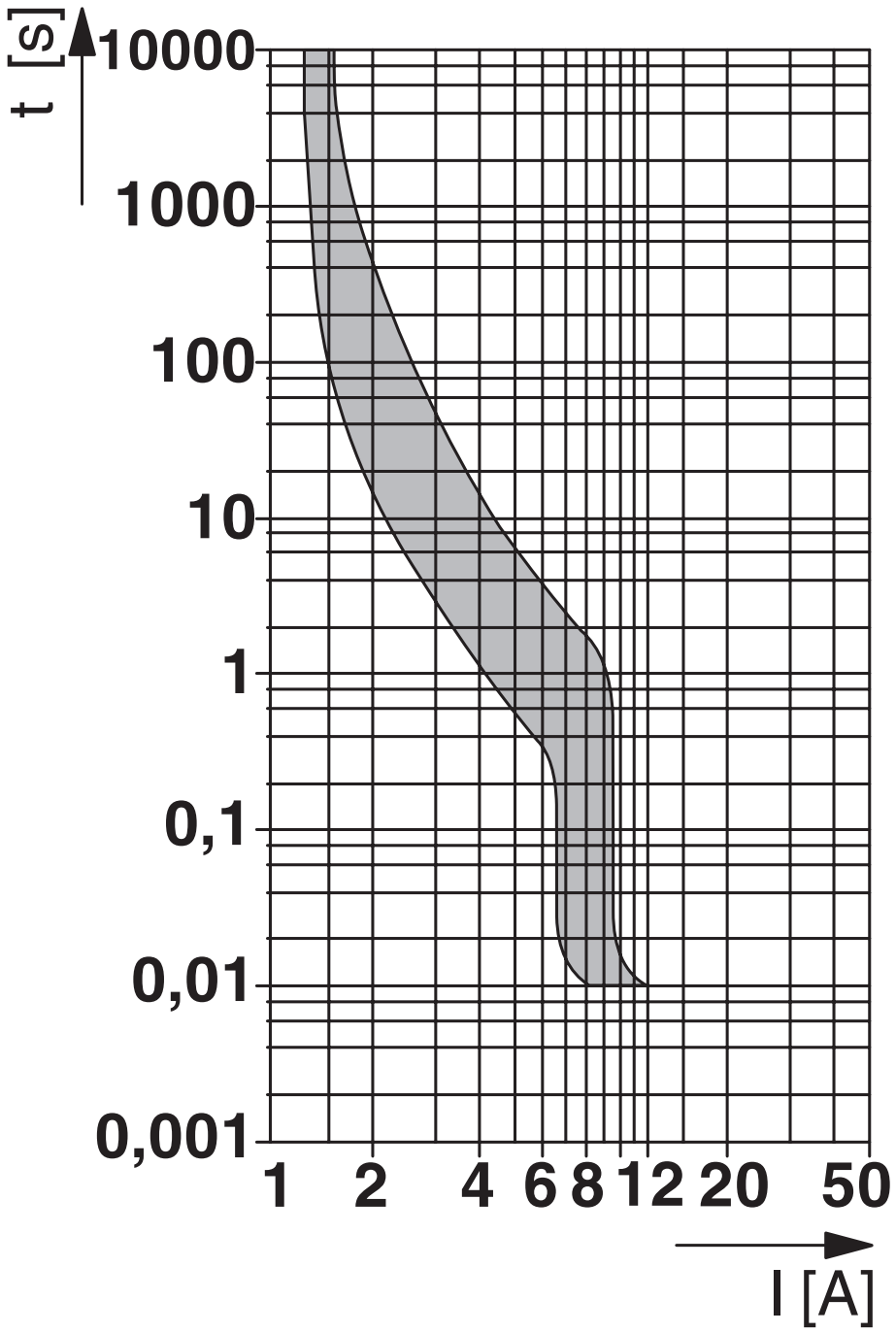
Mounting type	NS 35/...

Drawings

Dimensional drawing



Diagram



Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1020007

cUL Recognized
Approval ID: FILE E 140459

UL Recognized
Approval ID: FILE E 140459

TÜV Rheinland
Approval ID: R 50531587

CCC
Approval ID: 2024010307673885

Classifications

ECLASS

ECLASS-13.0	27140401
ECLASS-15.0	27140401

ETIM

ETIM 9.0	EC003538

UNSPSC

UNSPSC 21.0	39121410

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%

EF3.0 Climate Change

CO2e kg	4.435 kg CO2e

Accessories

TMC 7 B2 80 56 C - Wiring bridge

1022236

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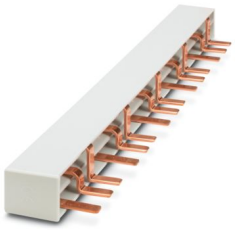

Bus bar for TMC 72... circuit breakers (two phase) 17.8 mm pitch, up to 56 positions. Rated for 80 A (end feed) 600 V AC/DC. UL 508 Listed for connection of UL 1077 rated circuit breakers.

TMC 7 B2 80 46 CA - Wiring bridge

1022235

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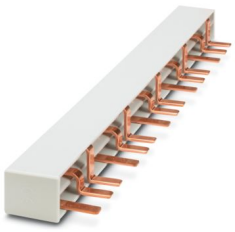

Bus bar for TMC 72... circuit breakers (two phase) 17.8 mm pitch, up to 46 positions. Rated for 80 A (end feed) 600 V AC/DC. UL 508 Listed for connection of UL 1077 rated circuit breakers.

TMC 7 B2/3 TERM - Terminal adapter

1022232

https://www.phoenixcontact.com/us/products/1022232



Feeder terminal adapter for TMC 72 or TMC 73 circuit breakers, two- or three-phase bus bars. Rated for 600 V AC/DC 115 A. Wire range 10…1/0 AWG. UL 508 Listed for connection to UL 1077 rated circuit breakers.

TMC 7 B2/3 END CAP - Wiring bridge end cover

1022229

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Protective end covers for TMC 7 multi-pole bus bars



TMC 7 B BUS CAP - Protective cover

1022224

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Protective covers for TMC 7 single-pole bus bars. Cuttable, five positions, yellow.

TMC 7/8 AUX - Auxiliary Contact

2908219

https://www.phoenixcontact.com/us/products/2908219



Auxiliary Contact, 1-position, connection method: Screw, mounting type: Snaps on to side of circuit breaker, rated current: 6 A

TMC 7/8 ALARM - Alarm Switch

2908220

https://www.phoenixcontact.com/us/products/2908220



Alarm Switch, 1-position, connection method: Screw, mounting type: Snaps on to side of circuit breaker, rated current: 6 A

TMC 7/8 12VDC SHNT - Shunt trip

2908221

https://www.phoenixcontact.com/us/products/2908221



Shunt trip, 1-position, connection method: Screw, mounting type: Snaps on to side of circuit breaker, rated current: 6 A

TMC 7/8 24VDC SHNT - Shunt trip

2908222

https://www.phoenixcontact.com/us/products/2908222



Shunt trip, 1-position, connection method: Screw, mounting type: Snaps on to side of circuit breaker, rated current: 6 A

TMC 7/8 48VDC SHNT - Shunt trip

2908224

https://www.phoenixcontact.com/us/products/2908224



Shunt trip, 1-position, connection method: Screw, mounting type: Snaps on to side of circuit breaker, rated current: 2 A

TMC 7/8 125VDC SHNT - Shunt trip

2908225

https://www.phoenixcontact.com/us/products/2908225



Shunt trip, 1-position, connection method: Screw, mounting type: Snaps on to side of circuit breaker, rated current: 1.5 A

TMC 7/8 120VAC SHNT - Shunt trip

2908226

https://www.phoenixcontact.com/us/products/2908226



Shunt trip, 1-position, connection method: Screw, mounting type: Snaps on to side of circuit breaker, rated current: 6 A

TMC 7/8 240VAC SHNT - Shunt trip

2908227

https://www.phoenixcontact.com/us/products/2908227



Shunt trip, 1-position, connection method: Screw, mounting type: Snaps on to side of circuit breaker, rated current: 6 A

TMC 7/8 277VAC SHNT - Shunt trip

2908228

https://www.phoenixcontact.com/us/products/2908228



Shunt trip, 1-position, connection method: Screw, mounting type: Snaps on to side of circuit breaker, rated current: 6 A

EML (10X4)R - Label

0815583

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Label, Roll, white, unmarked, can be labeled with: THERMOMARK E.300 (D)/600 (D), THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: adhesive, Number of individual labels: 10000, text field height: 4 mm, text field width: 10 mm

TML (104X3,8)R - Marker strip

0801833

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Marker strip, Roll, white, unmarked, can be labeled with: THERMOMARK E.300 (D)/600 (D), THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: adhesive, Number of individual labels: 2500, text field height: 3.8 mm, text field width: 104 mm

SZK PZ2 VDE - Screwdriver

1206463

https://www.phoenixcontact.com/us/products/1206463



Screwdriver, PZ crosshead, VDE insulated, size: PZ 2 x 100 mm, 2-component grip, with non-slip grip

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