UT 6-TMC M 12A - Thermal-magnetic device circuit breaker

0916611

https://www.phoenixcontact.com/us/products/0916611

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Thermal-magnetic circuit breaker, 1-pos., for DIN rail mounting

Your advantages

- Simple feed-in due to bridging capability
  using CLIPLINE complete accessories
- High system availability, thanks to easy resetting
- Quick and easy identification with large-area marking options
- The right device for every application, thanks to a nominal current range of 0.5 to 16 A
- Space savings of 30 % compared to miniature circuit breakers owing to the compact width of 12.3 mm

Commercial data

Item number	0916611
Packing unit	6 pc
Minimum order quantity	6 pc
Sales key	CL16
Product key	CLA122
GTIN	4046356449472
Weight per piece (including packing)	64.51 g
Weight per piece (excluding packing)	64.51 g
Customs tariff number	85362010
Country of origin	CZ

Technical data

Product properties

Product type	Thermomagnetic device circuit breakers
Product family	UT 6-TMC
Type	DIN rail module, one-piece
Number of positions	1
Number of connections	2
Number of rows	1
No. of channels	1
Potentials	1

Insulation characteristics

Overvoltage category	II
Degree of pollution	2

Electrical properties

Fuse type	Automatic device
Maximum power dissipation for nominal condition	≤ 1.57 VA

General

Operating voltage	50 V AC ... 264 V AC (48 - 62 Hz)
	5 V DC ... 30.8 V DC
Rated voltage	240 V AC (50/60 Hz)
	28 V DC
	240 V AC (50/60 Hz)
	28 V DC
Rated insulation voltage U_i	440 V AC
Rated current I_N	12 A
Rated surge voltage	2.8 kV
Insulation resistance R_{iso}	> 100 MΩ (main contact)
Type of actuation	S type
Tripping method	TM (thermal-magnetic)
Tripping level	Trip-free mechanism (positive)
Device resistance	10.9 mΩ
Required backup fuse	25 A
Rated short-circuit switching capacity I_{cn}	200 A (240 V AC)
	400 A (28 V DC)
Dielectric strength	2000 V
Switching cycles, max.	6000 (at 1 x I_n)
	50 (at 1.5 x I_n)
	40 (at 6 x I_n)
Fuse	M1 (normal blow)
Power dissipation	≤ 1.57 VA

Temperature derating	9.24 A DC (at -30 °C)
	9.6 A DC (at -20 °C)
	10.2 A DC (at -10 °C)
	10.8 A DC (at 0 °C)
	11.4 A DC (at 10 °C)
	12 A DC (at 23 °C)
	12.36 A DC (at 30 °C)
	12.96 A DC (at 40 °C)
	13.8 A DC (at 50 °C)
	14.52 A DC (at 60 °C)
Contact switching type	none

Indicator/remote signaling

Connection name	Auxiliary contact

Connection data

Nominal cross section	6.00 mm²
Rated cross section AWG	8
Connection method	Screw connection

Level 1 above 1 below 1

Connection method	Screw connection
Screw thread	M4
Tightening torque	1.5 ... 1.8 Nm
Stripping length	12 mm
Conductor cross-section rigid	0.2 mm² ... 10 mm²
Cross section AWG	24 ... 8 (converted acc. to IEC)
Conductor cross-section flexible	0.2 mm² ... 10 mm²
Conductor cross-section, flexible [AWG]	24 ... 8 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.25 mm² ... 6 mm²
Flexible conductor cross-section (ferrule with plastic sleeve)	0.25 mm² ... 6 mm²
2 conductors with same cross section, solid	0.2 mm² ... 2.5 mm²
2 conductors with same cross section, flexible	0.2 mm² ... 2.5 mm²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.25 mm² ... 1.5 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² ... 4 mm²
Nominal current	12 A
Nominal voltage	240 V AC
	28 V DC
Nominal cross section	6 mm²

Main contact

Connection method	Screw connection
Screw thread	M4
Tightening torque	1.5 Nm ... 1.8 Nm

Stripping length	12 mm
Conductor cross-section flexible	0.2 mm² ... 10 mm²
Conductor cross-section rigid	0.2 mm² ... 10 mm²
Conductor cross-section AWG	24 ... 8
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² ... 4 mm²
Conductor cross-section, flexible, with ferrule, with plastic sleeve	0.25 mm² ... 6 mm²
Conductor cross-section flexible, with ferrule without plastic sleeve	0.25 mm² ... 6 mm²

Dimensions

Width	12.3 mm
Height	85.5 mm
Depth	89.5 mm

Material specifications

Color	gray (RAL 7042)
Flammability rating according to UL 94	V-0
Insulating material	PA66

Mechanical properties

Mechanical data

Open side panel	No

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP40 (Actuation area)
	IP20 (Connection area)
Ambient temperature (operation)	-30 °C ... 60 °C
Altitude	2000 m (acc. to EN 60934)

Standards and regulations

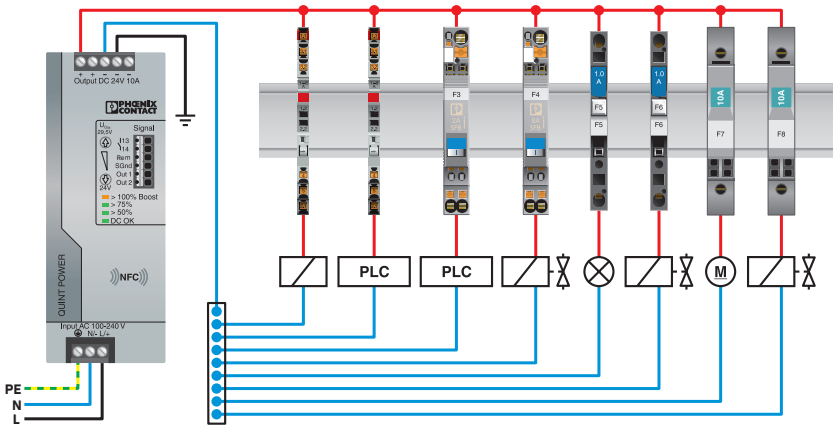
Standards/specifications	EN 60934
Standards/specifications	UL 1077
Standards/specifications	CSA 22.2
Note	No. 235

Mounting

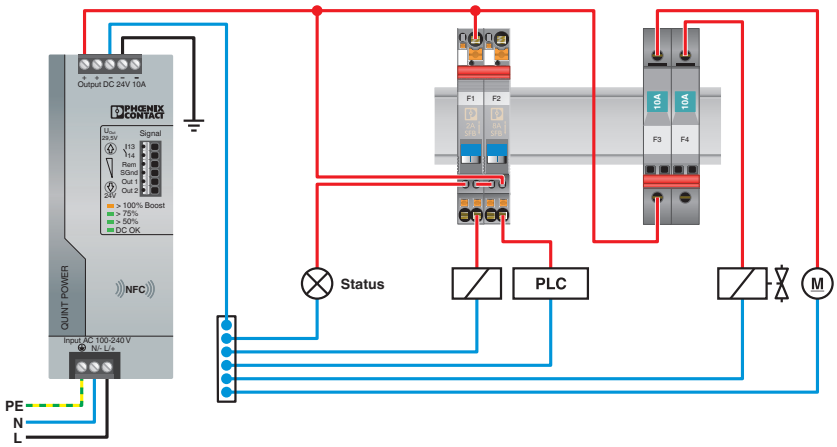
Mounting type	DIN rail: 35 mm

Drawings

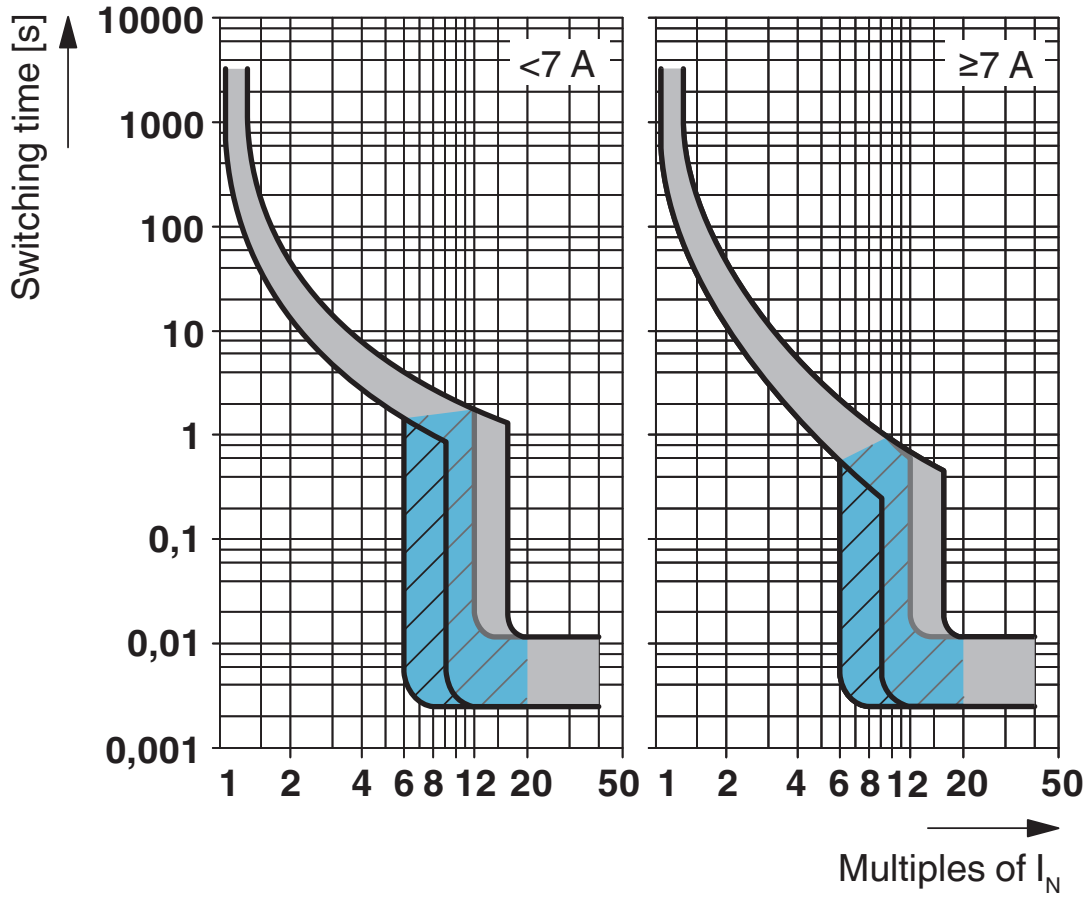
Application drawing



Application drawing

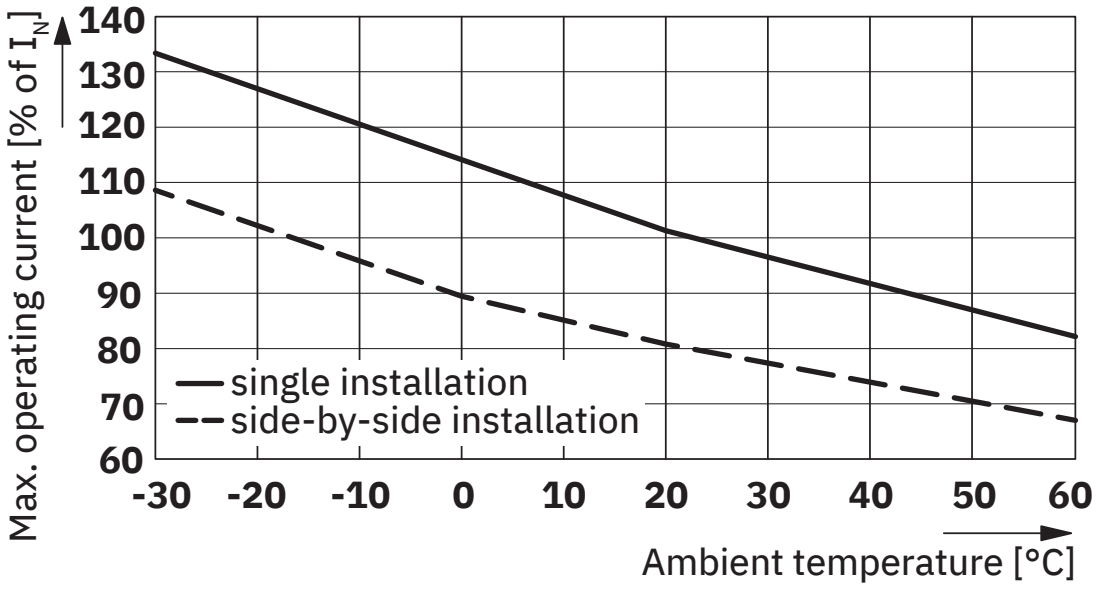


Diagram



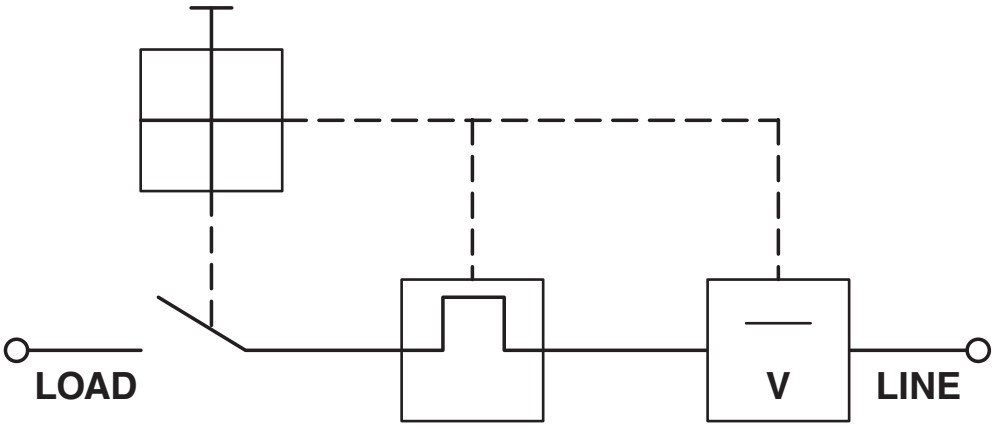
Trigger characteristic

Diagram



Operating current correction factor

Block diagram



Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/0916611

cUL Recognized
Approval ID: FILE E 140459

UL Recognized
Approval ID: FILE E 140459

VDE Zeichengenehmigung
Approval ID: 40028127

CSA
Approval ID: 250505

Classifications

ECLASS

ECLASS-13.0	27140401
ECLASS-15.0	27140401

ETIM

ETIM 9.0	EC003538

UNSPSC

UNSPSC 21.0	39121400

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	0.996 kg CO2e

Accessories

FBS 2-6 - Plug-in bridge

3030336

https://www.phoenixcontact.com/us/products/3030336



Plug-in bridge, pitch: 6.2 mm, number of positions: 2, color: red

FBS 3-6 - Plug-in bridge

3030242

https://www.phoenixcontact.com/us/products/3030242



Plug-in bridge, pitch: 6.2 mm, number of positions: 3, color: red

FBS 4-6 - Plug-in bridge

3030255

https://www.phoenixcontact.com/us/products/3030255



Plug-in bridge, pitch: 6.2 mm, number of positions: 4, color: red

FBS 5-6 - Plug-in bridge

3030349

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Plug-in bridge, pitch: 6.2 mm, number of positions: 5, color: red

FBS 10-6 - Plug-in bridge

3030271

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Plug-in bridge, pitch: 6.2 mm, number of positions: 10, color: red

FBS 20-6 - Plug-in bridge

3030365

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Plug-in bridge, pitch: 6.2 mm, number of positions: 20, color: red

UC-TM 12 - Marker for terminal blocks

0819194

https://www.phoenixcontact.com/us/products/0819194



Marker for terminal blocks, Sheet, white, unmarked, can be labeled with: BLUEMARK E.CARD, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: latching, for terminal block width: 12 mm, Number of individual labels: 40, text field height: 10.5 mm, text field width: 11.45 mm

ZB 12:UNPRINTED - Zack marker strip

0812120

https://www.phoenixcontact.com/us/products/0812120



Zack marker strip, Strip, white, unmarked, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: latching, for terminal block width: 12.2 mm, Number of individual labels: 5, text field height: 10.5 mm, text field width: 12.15 mm

SZS 1,0X4,0 VDE - Screwdriver

1205066

https://www.phoenixcontact.com/us/products/1205066



Screwdriver, slot-headed, VDE insulated, size: 1.0 x 4.0 x 100 mm, 2-component grip, with non-slip grip

SZS 0,8X4,0 VDE - Screwdriver

1212508

https://www.phoenixcontact.com/us/products/1212508



Screwdriver, slot-headed, VDE insulated, size: 0.8 x 4.0 x 100 mm, 2-component grip, with non-slip grip

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