

UT 6-TMC M 0,5A - Thermomagnetic device circuit breaker



0916603

<https://www.phoenixcontact.com/us/products/0916603>

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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	0916603
Packing unit	1 pc
Minimum order quantity	6 pc
Sales key	CL16
Product key	CLA122
Catalog page	Page 394 (C-4-2019)
GTIN	4046356448994
Weight per piece (including packing)	63.883 g
Weight per piece (excluding packing)	63.883 g
Customs tariff number	85362010
Country of origin	CZ

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Technical data

Product properties

Type	DIN rail module, one-piece
Product type	Thermomagnetic device circuit breakers
Product family	UT 6-TMC
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

No. of channels	1
Fuse type	Automatic device
Maximum power dissipation for nominal condition	$\leq 1.1 \text{ VA}$

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	0.5 A
Rated surge voltage	2.8 kV
Insulation resistance R_{iso}	$> 100 \text{ M}\Omega$ (main contact)
Type of actuation	S type
Tripping method	TM (thermomagnetic)
Tripping level	Trip-free mechanism (positive)
Device resistance	4.4 Ω
Required backup fuse	16 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 $1 \times I_N$)
	50 (at $1.5 \times I_N$)
	40 (at $6 \times I_N$)
Fuse	M1 (normal blow)

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Power dissipation	≤ 1.1 VA
Temperature derating	0.39 A DC (at -30 °C)
	0.41 A DC (at -20 °C)
	0.42 A DC (at -10 °C)
	0.44 A DC (at 0 °C)
	0.45 A DC (at 10 °C)
	0.5 A DC (at 23 °C)
	0.52 A DC (at 30 °C)
	0.54 A DC (at 40 °C)
	0.58 A DC (at 50 °C)
	0.61 A DC (at 60 °C)

Indicator/remote signaling

Connection name	Auxiliary contact
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Connection data

Nominal cross section	6.00 mm²
Rated cross section AWG	8
Connection method	Screw connection
Cross section AWG	(converted acc. to IEC)

Level 1 above 1 below 1

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	0.5 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 ... 18 Nm

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Stripping length	12 mm
Conductor cross section flexible	0.2 mm ² ... 10 mm ²
Conductor cross section rigid	0.2 mm ² ... 10 mm ²
Conductor cross section AWG	24 ... 8
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm ² ... 6 mm ²
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm ² ... 6 mm ²

Dimensions

Width	12.3 mm
Height	85.5 mm
Depth	89.5 mm

Material specifications

Flammability rating according to UL 94	V0
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	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
Standards/specifications	EAC

Mounting

Mounting type	DIN rail: 35 mm
Connection method	Screw connection

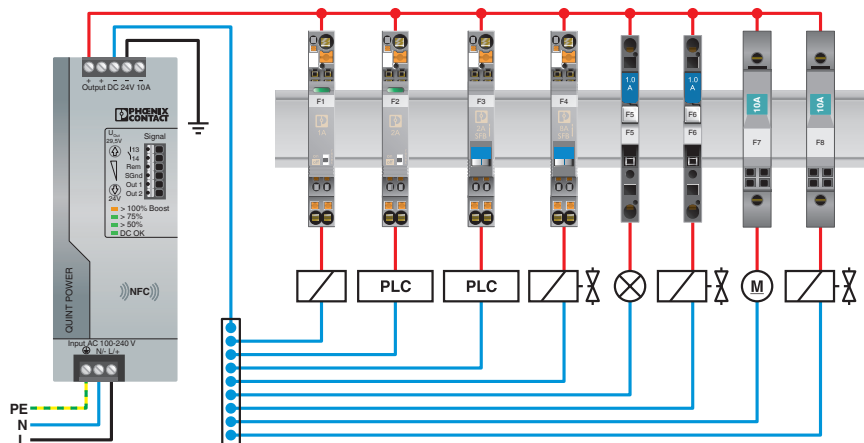
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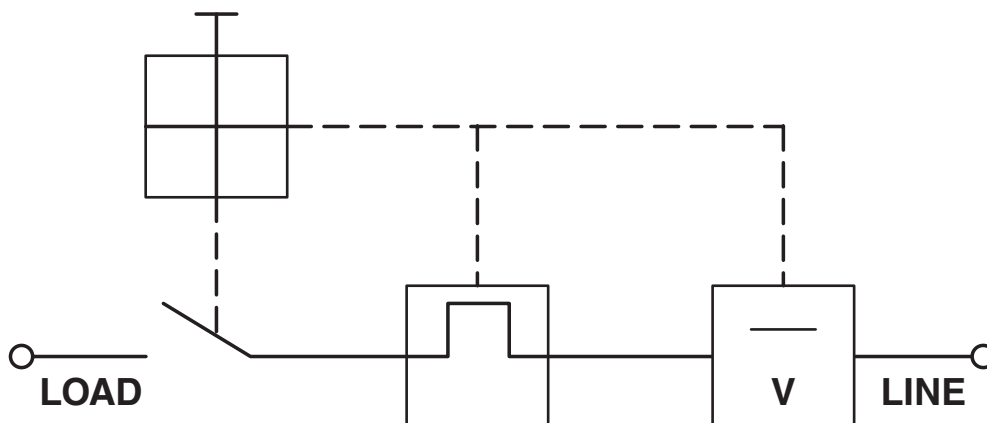
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Drawings

Application drawing



Block diagram

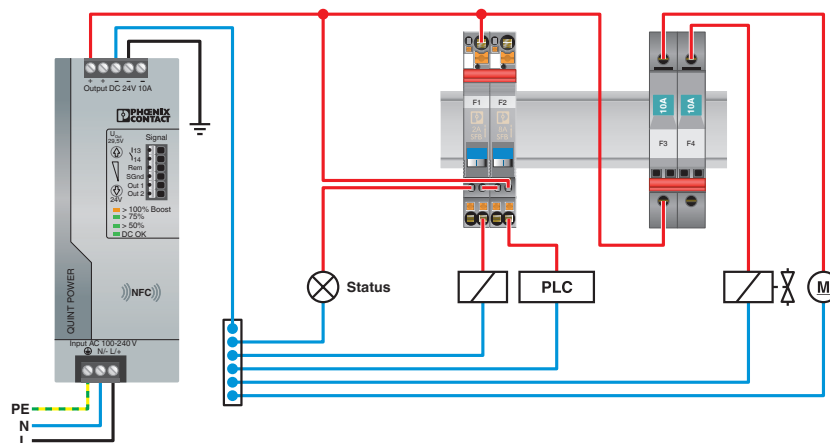


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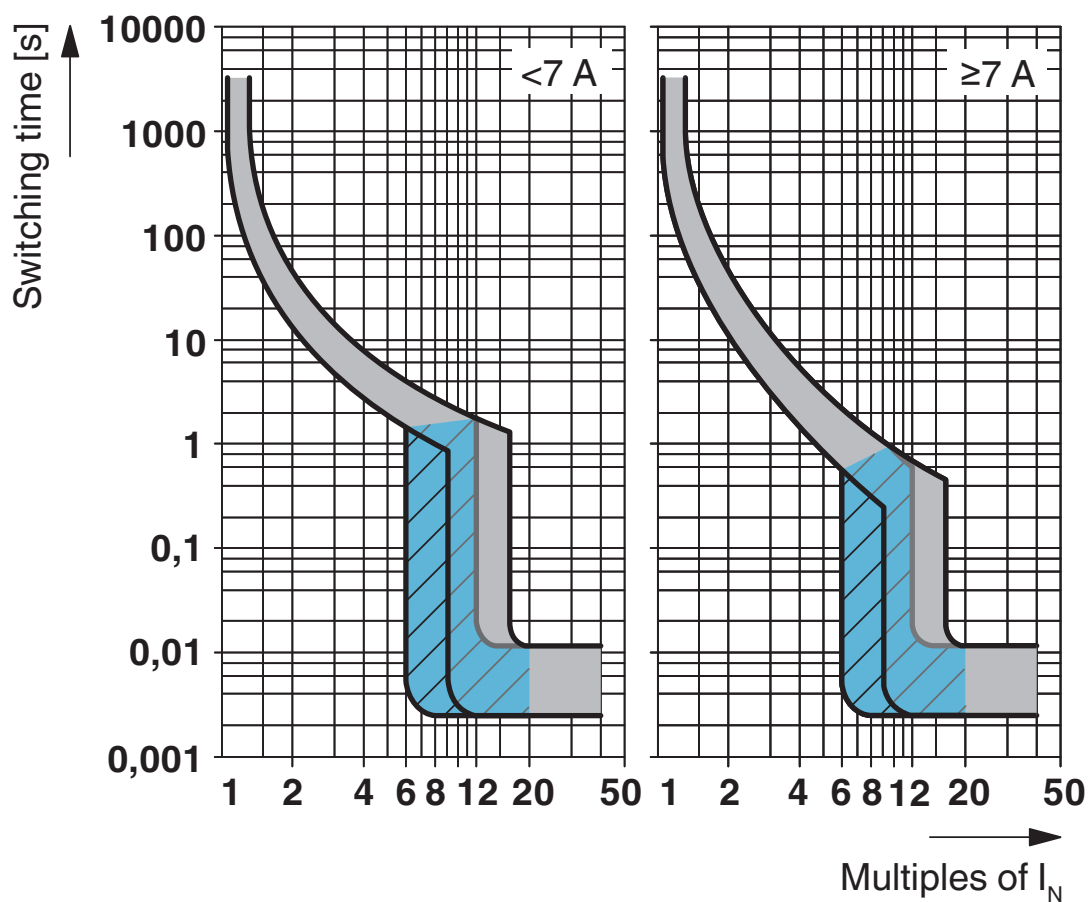
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Application drawing



Diagram



Trigger characteristic

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/0916603>



cUL Recognized
Approval ID: FILE E 140459



UL Recognized
Approval ID: FILE E 140459



EAC
Approval ID: EAC-Zulassung



EAC
Approval ID: RU C-DE.A*30.B01546



VDE Zeichengenehmigung
Approval ID: 40028127



CSA
Approval ID: 250505



KC
Approval ID: SW05013-15001

cULus Recognized

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Classifications

ECLASS

ECLASS-11.0	27141116
ECLASS-12.0	27141116
ECLASS-13.0	27140401

ETIM

ETIM 9.0	EC000899
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UNSPSC

UNSPSC 21.0	39121400
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Environmental product compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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Accessories

FBS 2-6 - Plug-in bridge

3030336

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

FBS 3-6 - Plug-in bridge

3030242

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

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FBS 4-6 - Plug-in bridge

3030255

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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

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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

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UC-TM 12 - Marker for terminal blocks

0819194

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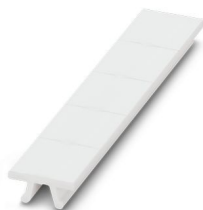


Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 12 mm, lettering field size: 11.45 x 10.5 mm, Number of individual labels: 40

ZB 12:UNPRINTED - Zack marker strip

0812120

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Zack marker strip, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 12.2 mm, lettering field size: 12 x 10.5 mm, Number of individual labels: 5

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SZS 1,0X4,0 VDE - Screwdriver

1205066

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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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