UT 6-TMC M 8A - Thermomagnetic device circuit breaker

0916609

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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	0916609
Packing unit	6 pc
Minimum order quantity	1 pc
Product key	CLA122
Catalog page	Page 394 (C-4-2019)
GTIN	4046356449052
Weight per piece (including packing)	63.16 g
Weight per piece (excluding packing)	63 g
Customs tariff number	85362010
Country of origin	CZ

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	≤ 1.43 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	8 A
Rated surge voltage	2.8 kV
Insulation resistance R_{iso}	> 100 MΩ (main contact)
Type of actuation	S type
Tripping method	TM (thermomagnetic)
Tripping level	Trip-free mechanism (positive)
Device resistance	22.2 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	≤ 1.43 VA
Temperature derating	5.6 A DC (at -30 °C)
	5.84 A DC (at -20 °C)
	6.24 A DC (at -10 °C)
	6.72 A DC (at 0 °C)
	7.2 A DC (at 10 °C)
	8 A DC (at 23 °C)
	8.24 A DC (at 30 °C)
	8.48 A DC (at 40 °C)
	9.04 A DC (at 50 °C)
	9.68 A DC (at 60 °C)

Indicator/remote signaling

Connection name	Auxiliary contact

Connection data

Nominal cross section	6.00 mm²
Rated cross section AWG	8

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	8 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
Stripping length	12 mm
Conductor cross section flexible	0.2 mm² ... 10 mm²