

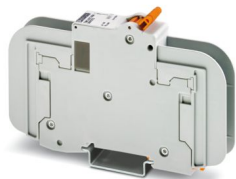
TMC 81C 50A - Miniature Circuit Breaker



2907579

<https://www.phoenixcontact.com/us/products/2907579>

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Thermal-magnetic Miniature Circuit Breaker, 1-position, use: Branch Circuit Protection (UL 489), for protection against overload with a breaking capacity of 10 kA, tripping characteristic: C, mounting type: NS 35/..., rated current: 50 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	2907579
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL08
Product key	CLA125
GTIN	4055626214795
Weight per piece (including packing)	222.222 g
Weight per piece (excluding packing)	222.222 g
Customs tariff number	85362010
Country of origin	CN

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Technical data

Product properties

Product type	Circuit breakers
Product family	TMC 8
Type	DIN rail module, one-piece
Number of positions	1
Mechanical service life	20000
Special properties	Branch Circuit Protection (UL 489), for protection against overload with a breaking capacity of 10 kA Thermal-magnetic

Electrical properties

Service life electrical	6000
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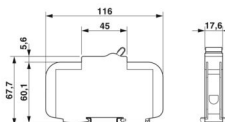
General

Operating voltage	120 V AC 60 V DC
Rated current I_N	50 A
Tripping method	TM (thermal-magnetic)
Rated short-circuit switching capacity I_{cn}	10 kA (IC)
Fuse	C
Contact switching type	none

Connection data

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

Dimensions

Dimensional drawing	
Width	17.6 mm
Height	116 mm
Depth	75.9 mm (incl. DIN rail 7.5 mm)

Material specifications

Color	light gray (RAL 7035)
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	gray (RAL 7042)
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Environmental and real-life conditions

Ambient conditions

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)
Vibration (operation)	±0.38 mm (10 Hz ... 57 Hz), 5g (57 Hz ... 500 Hz) (IEC 60068-2-6, Fc, sine)

Standards and regulations

Standards/specifications	UL 489
	IEC 60947-2

Mounting

Mounting type	NS 35/...
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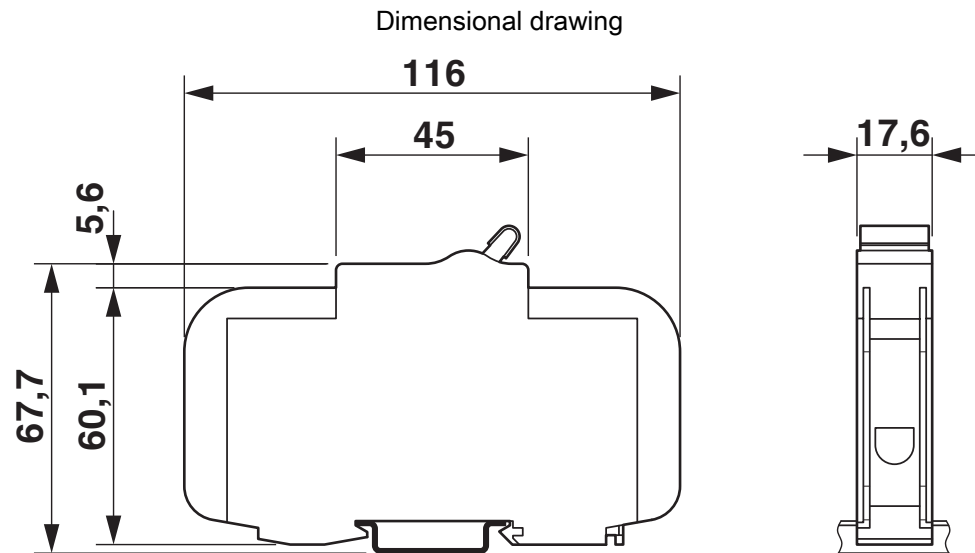
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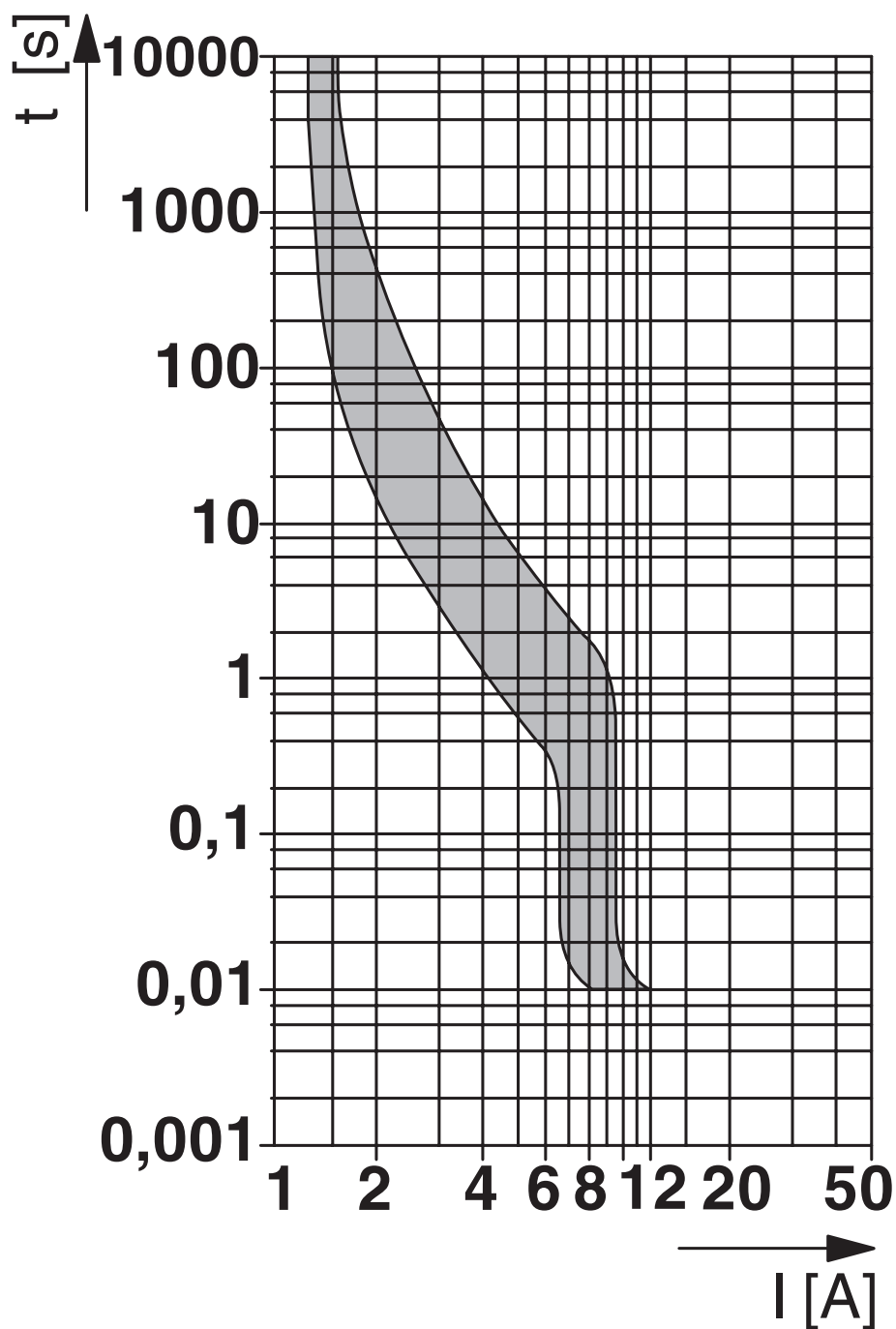
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Drawings



Diagram



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2907579>



UL Listed

Approval ID: FILE E 320373



cUL Listed

Approval ID: FILE E 320373



TÜV Rheinland

Approval ID: R 50531587



CCC

Approval ID: 2024010307673885

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Classifications

ECLASS

ECLASS-13.0	27140401
ECLASS-15.0	27140401

ETIM

ETIM 9.0	EC003538
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UNSPSC

UNSPSC 21.0	39121410
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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%

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