

TMC 81D 50A - Miniature Circuit Breaker



2907646
<https://www.phoenixcontact.com/au/products/2907646>

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Miniature Circuit Breaker, number of positions: 1, cross section: 1 mm²- 35 mm², AWG: 18 - 2, mounting type: DIN rail: 35 mm



Commercial data

Item number	2907646
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CLA125
Product key	CLA125
GTIN	4055626215013
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	Thermomagnetic device circuit breakers
Product family	TMC 8
Type	DIN rail module, one-piece
Number of positions	1
Mechanical service life	20000

Electrical properties

Service life electrical	6000
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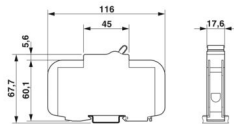
General

Operating voltage	120 V AC
	60 V DC
Rated current I_N	50 A
Tripping method	TM (thermomagnetic)
Rated short-circuit switching capacity I_{cn}	10 kA (IC)
Fuse	D

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
Tightening torque, min	2 Nm
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 grey (RAL 7035)
	gray (RAL 7042)

Environmental and real-life conditions

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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 (10-57 Hz), 5g (57...500 Hz) (IEC 60068-2-6, Fc, sine)

Standards and regulations

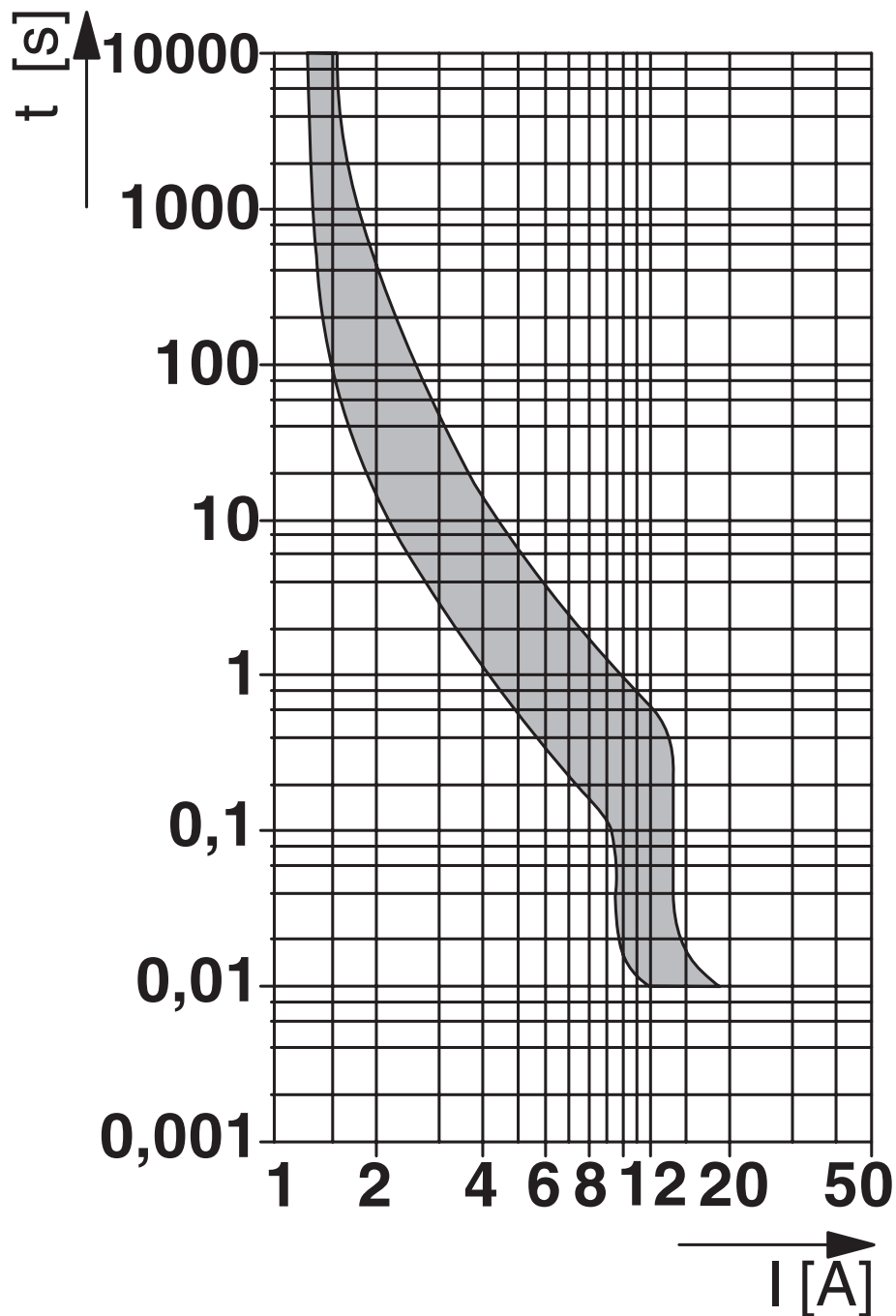
Standards/specifications	UL 489
	IEC 60947-2

Mounting

Mounting type	DIN rail: 35 mm
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Drawings

Diagram



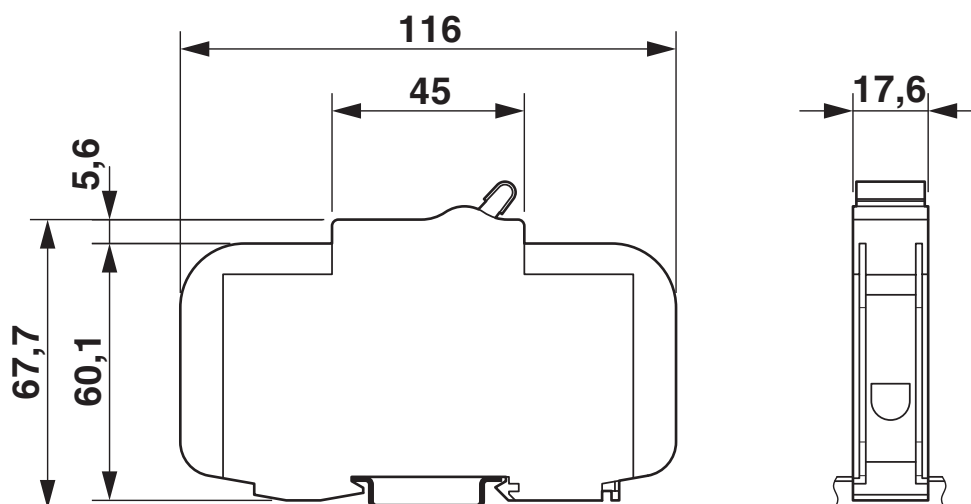
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Dimensional drawing



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Approvals

🔗 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/au/products/2907646>



UL Listed

Approval ID: FILE E 320373



cUL Listed

Approval ID: FILE E 320373



TÜV Rheinland

Approval ID: R 50531587

cULus Listed

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Classifications

ECLASS

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

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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