

# TMC 81D 20A - Thermomagnetic device circuit breaker

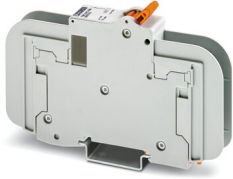


2907640

<https://www.phoenixcontact.com/in/products/2907640>

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Thermomagnetic device circuit breaker, number of positions: 1, cross section: 1 mm<sup>2</sup>- 35 mm<sup>2</sup>, AWG: 18 - 2, mounting type: DIN rail: 35 mm



## Commercial data

Item number	2907640
Packing unit	1 pc
Minimum order quantity	12 pc
Sales key	*****
Product key	CLA125
GTIN	4055626215075
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

Type	DIN rail module, one-piece
Product type	Thermomagnetic device circuit breakers
Product family	TMC 8
Number of positions	1
Mechanical service life	20000

### Electrical properties

Service life electrical	6000
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### General

Operating voltage	120 V AC (277 V AC)
	60 V DC
Rated current $I_N$	20 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 <sup>2</sup> ... 35 mm <sup>2</sup>
Cross section AWG	18 ... 2 (converted acc. to IEC)
Conductor cross section flexible	1 mm <sup>2</sup> ... 35 mm <sup>2</sup>
Connection method	Screw
Tightening torque, min	2 Nm
Conductor cross section flexible max.	35 mm <sup>2</sup>
Conductor cross section, rigid max.	35 mm <sup>2</sup>

### Dimensions

Dimensional drawing	
Width	17.6 mm
Height	116 mm
Depth	65.7 mm

### 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)

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

Standards/specifications	UL 489
	IEC 60947-2

## Mounting

Mounting type	DIN rail: 35 mm
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