

T1

100A, 600Y/347V, 480V Δ

Thermal-magnetic



T1

Dimensions 3P Fixed Version 5.12H x 3.00W x 2.76D
Weight 2.34 (lbs)

General

The T1 breaker family ranges from 15 through 100 amperes. The T1 trip units are non-interchangeable and use the very latest technology in electromagnetic relays for overcurrent trip protection. Thermal overload protection is provided by heat sensitive bimetals. Short circuit protection for the breaker is accomplished using a precise magnetic coil. State of the art construction in contacts and arcing chambers aid in limiting damaging fault currents through the protected circuits.

Standards

The UL489/CSA 22.2 version of T1 also carries an IEC-60947-2 rating.

Versions

The T1 frame is available in two versions:

- T = Thermal-magnetic, fixed
- D = Molded case switch

Performance levels

The T1 breaker has two performance levels available:

- B = Basic single pole
- N = Normal three pole

Number of poles

The T1 molded case circuit breaker is available in single, three and four pole versions. Estimate 4 pole pricing by adding 35% to the 3 pole price and contact your ABB sales person for details.

Molded case switches

UL489 switches include no overcurrent protection except for a high instantaneous trip mechanism for self protection.

UL489 / CSA C22.2 Interrupting capacity (kA RMS)

Voltage	Continuous rating	B (1 pole)	N
240VAC	15 – 100A	—	50 ①
347VAC	15A 20 – 100A	10 14	— —
480VAC Δ	15A ② 20 – 100A	— —	14 22
600Y/347VAC	15 – 100A	—	10
250VDC 2 pole series	15 – 100A	—	25
500VDC 3 pole series	15 – 100A	—	25

IEC 60947-2 Interrupting capacity (kA RMS)

Voltage	Continuous rating	B (1 pole)	N
230VAC	15 – 100A	25 ③	50
415VAC	15 – 100A	—	36
690VAC	15 – 100A	—	6
500VDC 2 pole series	15 – 100A	—	36

① In 15A 35kA @ 240VAC.
 ② 15A available in 480/277 VAC only.
 ③ Interrupting capacity for 16-20A is 16kA



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Thermal-magnetic/Molded Case Switch

T1B TMF — Single pole thermal magnetic fixed

Breaker	IC at 277VAC	Rating	Magnetic trip	1 pole, 277VAC catalog number	List price
T1B	10kA	15A	1000A	T1B015TL-1	\$ 230
		18kA	20A	1000A	
	25A		1000A	T1B025TL-1	
	30A		1000A	T1B030TL-1	
	40A		1000A	T1B040TL-1	
	50A		1500A	T1B050TL-1	
	60A		1500A	T1B060TL-1	
	70A	1500A	T1B070TL-1	262	
		80A	1500A		
		90A	1500A		
100A		1500A			

T1N TMF — 3 pole thermal magnetic fixed

Breaker	IC at 480VAC	Rating	Magnetic trip	3 pole, 600Y/347VAC/500VDC catalog number	List price
T1N	14kA	15A	1000A	T1N015TL①	\$ 402
		22kA	20A	1000A	
	25A		1000A	T1N025TL	
	30A		1000A	T1N030TL	
	40A		1000A	T1N040TL	
	50A		1500A	T1N050TL	
	60A		1500A	T1N060TL	
	70A	1500A	T1N070TL	479	
		80A	1500A		
		90A	1500A		
100A		1500A			

T1N TMF — 100% Rated thermal-magnetic

Breaker	IC at 480VAC	Rating	Magnetic trip	3 pole 600Y/347 500VDC catalog number	List price
T1N	14kA	15 ①	1000A	T1NQ015TL	\$ 442
		22kA	20	1000A	
	25		1000A	T1NQ025TL	
	30		1000A	T1NQ030TL	
	40		1000A	T1NQ040TL	
	50		1500A	T1NQ050TL	
	60		1500A	T1NQ060TL	
	70	1500A	T1NQ070TL	527	
		80	1500A		
		90	1500A		
100		1500A			

T1N-D — Molded case switch

Breaker	Interrupting capacity ②	Rating	Magnetic trip	480VAC/500VDC catalog number	List price
T1-D	240V, 50kA	100A	1000A	T1N100DL	\$ 431

① Rated 480V/277 VAC for 15A.

② When protected by a OCPD with appropriate ratings.