

Selection Guide

Circuit breakers for power distribution

T4 – T8



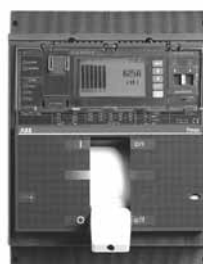
T4



T5



T6



T7



T8

Type		Tmax T4	Tmax T5	Tmax T6	Tmax T7/T7M	Tmax T8	
Frame size	[A]	250	400-600 ③	800	1000-1200	1600, 2000, 2500 & 3000	
Number of poles	[Nr]	2-3-4 ④	2-3-4 ④	3-4	3-4	3-4	
Rated voltage	AC (50-60Hz)	[V]	600	600	600	600	
	DC	[V]	600	600	600	600	
Interrupting ratings		N S H L V	N S H L V	N S H L	S H L	V	
	240V AC	[kA rms]	65 100 150 200 200	65 100 150 200 200	65 100 200 200	65 100 150	125
	277V AC	[kA rms]					
	347V AC	[kA rms]					
	480V AC	[kA rms]	25 35 65 100 150	25 35 65 100 150	35 50 65 100	50 65 100	125
	600Y/347V AC	[kA rms]					
	600V AC	[kA rms]	18 25 35 65 100	18 25 35 65 100	20 25 35 42	25 50 65	100
	250V DC (2 poles in series)	[kA rms]					
500V DC (3 poles in series)	[kA rms]						
500V DC (2 poles in series)	[kA rms]	25 35 50 65 100	25 35 50 65 100	35 35 50 65			
600V DC (3 poles in series)	[kA rms]	16 25 35 50 65	16 25 35 50 65	20 20 35 50			
Trip units	TMF		■				
	TMD/TMA		■	■			
	ELT						
	MA						
	Electronic		■	■	■	■	
Dimensions	H	[in/mm]	8.07/205	8.07/205	10.55/268	10.55/268	15 / 382
	W 3p	[in/mm]	4.13/105	5.51/140	8.26/210	8.26/210	16.8 / 427
	D	[in/mm]	4.07/103.5	4.07/103.5	4.07/103.5	6.06/154 (toggle) 7/178 (motor)	11.2 / 282
Mechanical life	[No. operations]	20,000	20,000	20,000	10,000	15,000	

① In15A = 10kA@277 VAC 10kA@347 VAC
 ② In15A = 35kA@240 VAC 14kA@480Y/277 VAC
 ③ T5 600 with electronic trip units only and in three pole version-
 ④ 2p T4N250 and T5N400 available only in N interrupting capacity.
 ⑤ In from 15A up to 30A=65kA@480 VAC
 ⑥ Applies to MCS only.

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	10	—
	20 – 100A	14	—
480VAC Δ	15A ②	—	14
	20 – 100A	—	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 3 pole series	15 – 100A	—	36

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

T1

100A, 600Y/347V, 480V Δ

Thermal-magnetic/Molded Case Switch

T1B TMF – Single pole thermal magnetic fixed 1

Breaker	IC at 277VAC	Rating (A)	Magnetic trip (A)	1 pole, 277VAC catalog number
T1B	10kA	15	1000	T1B015TL-1
		20	1000	T1B020TL-1
	18kA	25	1000	T1B025TL-1
		30	1000	T1B030TL-1
		40	1000	T1B040TL-1
		50	1500	T1B050TL-1
		60	1500	T1B060TL-1
		70	1500	T1B070TL-1
		80	1500	T1B080TL-1
		90	1500	T1B090TL-1
		100	1500	T1B100TL-1

T1N TMF – 3 pole thermal magnetic fixed

Breaker	IC at 480VAC	Rating (A)	Magnetic trip (A)	3 pole, 600Y/347VAC/500VDC catalog number
T1N	14kA	15	1000	T1N015TL ②
		20	1000	T1N020TL
	22kA	25	1000	T1N025TL
		30	1000	T1N030TL
		40	1000	T1N040TL
		50	1500	T1N050TL
		60	1500	T1N060TL
		70	1500	T1N070TL
		80	1500	T1N080TL
		90	1500	T1N090TL
		100	1500	T1N100TL

T1N TMF – 100% Rated thermal-magnetic

Breaker	IC at 480VAC	Rating (A)	Magnetic trip (A)	3 pole, 600Y/347VAC/500VDC catalog number
T1N	14kA	15 ①	100	T1NQ015TL
		20	1000	T1NQ020TL
	22kA	25	1000	T1NQ025TL
		30	1000	T1NQ030TL
		40	1000	T1NQ040TL
		50	1500	T1NQ050TL
		60	1500	T1NQ060TL
		70	1500	T1NQ070TL
		80	1500	T1NQ080TL
		90	1500	T1NQ090TL
		100	1500	T1NQ100TL

T1N-D – Molded case switch

Breaker	Interrupting capacity ③	Rating (A)	Magnetic trip (A)	480VAC/500VDC catalog number
T1-D	240V, 50kA	100	1000	T1N100DL

① Electrical/mechanical accessories cannot be installed on single pole breakers.

② Rated 480Y/277 VAC for 15A.

③ When protected by a OCPD with appropriate ratings.

T2

100A, 480V Δ

Thermal-magnetic/electronic/current limiting

Dimensions 3P Fixed Version 5.12H x 3.54W x 2.76D

Weight 2.84 (lbs)



T2

General

The T2 breaker family ranges from 15 through 100 amperes. The T2 trip units are non-interchangeable and use the very latest technology in electromagnetic relays for overcurrent trip protection as well as a version with microprocessor-based electronic trip unit. Thermal overload protection is provided by heat sensitive bimetals. 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 T2 also carries an IEC-60947-2 rating.

Versions

The T2 frame is available in four versions:

- T = Thermal-magnetic, fixed
- B = Adjustable LS/I electronic
- M = Magnetic only (MCP)
- E5 = Electronic instantaneous only (MCP)

Trip functions

These tripping functions are available:

- L = Long time
- S = Short time
- I = Instantaneous

Performance levels

The T2 breaker has two performance levels available:

- S = Standard
- H = High - UL Current Limiting

Number of poles

The T2 is available in 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.

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

Voltage	Continuous rating	S	H
240VAC	15 – 100A	65	150
480VAC Δ	15 – 100A	35	65

IEC 60947-2 Interrupting capacity (kA RMS)

Voltage	Continuous rating	S	H
230VAC	15 – 100A	85	100
415VAC	15 – 100A	50	70
690VAC	15 – 100A	7	8
500VDC 3 pole series	15 – 100A	50	70

T2

100A, 480V Δ

Thermal-magnetic/current limiting

T2 – 100A TMF thermal magnetic fixed

Breaker	IC at 480VAC	Rating (A)	Magnetic trip (A)	3 pole, 480VAC Catalog number
T2S	35kA	15	500	T2S015TW
		20	500	T2S020TW
		25	500	T2S025TW
		30	500	T2S030TW
		40	500	T2S040TW
		50	500	T2S050TW
		60	600	T2S060TW
		70	700	T2S070TW
		80	800	T2S080TW
		90	900	T2S090TW
		100	1000	T2S100TW
T2H UL current limiting	65kA	15	500	T2H015TW
		20	500	T2H020TW
		25	500	T2H025TW
		30	500	T2H030TW
		40	500	T2H040TW
		50	500	T2H050TW
		60	600	T2H060TW
		70	700	T2H070TW
		80	800	T2H080TW
		90	900	T2H090TW
		100	1000	T2H100TW

T2 – 100A TMF, 100% rated thermal magnetic fixed

Breaker	IC at 480VAC	Rating (A)	Magnetic trip (A)	3 pole, 480VAC Catalog number
T2S	35kA	15	500	T2SQ015TW
		20	500	T2SQ020TW
		25	500	T2SQ025TW
		30	500	T2SQ030TW
		40	500	T2SQ040TW
		50	500	T2SQ050TW
		60	600	T2SQ060TW
		70	700	T2SQ070TW
		80	800	T2SQ080TW
		90	900	T2SQ090TW
		100	1000	T2SQ100TW
T2H UL current limiting	65kA	15	500	T2HQ015TW
		20	500	T2HQ020TW
		25	500	T2HQ025TW
		30	500	T2HQ030TW
		40	500	T2HQ040TW
		50	500	T2HQ050TW
		60	600	T2HQ060TW
		70	700	T2HQ070TW
		80	800	T2HQ080TW
		90	900	T2HQ090TW
		100	1000	T2HQ100TW

T2

100A, 480V Δ, 100% rated

Electronic/Current limiting/MCP

T2 – 100A Frame, electronic trip unit (AC only)

Breaker	IC at 480VAC	Trip unit type	CT rating	3 pole, 480VAC catalog number
T2S	35kA	PR221DS-LS/I	25A	T2S025BW
			60A	T2S060BW
			100A	T2S100BW
T2H UL Current Limiting	65kA	PR221DS-LS/I	25A	T2H025BW
			60A	T2H060BW
			100A	T2H100BW

T2 – 100A Frame 100% rated, electronic trip unit (AC only)

Breaker	IC at 480VAC	Trip unit type	CT rating	3 pole, 480VAC catalog number
T2S	35kA	PR221DS-LS/I	25A	T2SQ025BW
			60A	T2SQ060BW
			100A	T2SQ100BW
T2H UL Current Limiting	65kA	PR221DS-LS/I	25A	T2HQ025BW
			60A	T2HQ060BW
			100A	T2HQ100BW

T2 – 100A Frame, instantaneous only (MCP)

Breaker	IC at 480VAC	Trip unit type	Rating	Adjustment range	3 pole, 480VAC Catalog number
T2S	35kA	Mag only	20A	120 - 240	T2S020MW
			50A	300 - 600	T2S050MW
			100A	600 - 1200	T2S100MW
T2H	65kA	Mag only	20A	120 - 240	T2H020MW
			50A	300 - 600	T2H050MW
			100A	600 - 1200	T2H100MW

T2 – 100A Frame, instantaneous only, electronic (MCP - AC only)

Breaker	IC at 480VAC	Trip unit type	Rating	Adjustment range	3 pole, 480VAC Catalog number
T2S	35kA	Instantaneous only	25A	25 - 250	T2S025E5W
			60A	60 - 600	T2S060E5W
			100A	100 - 1000	T2S100E5W
T2H	65kA	Instantaneous only	25A	25 - 250	T2H025E5W
			60A	60 - 600	T2H060E5W
			100A	100 - 1000	T2H100E5W

T3

225A, 600Y/347V, 480V Δ

Thermal-magnetic

Dimensions 3P Fixed Version 5.9H x 4.13W x 2.76D

Weight 5.45 (lbs)



T3

General

The T3 breaker family ranges from 60 through 225 amperes. The T3 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 begins at 10 times the thermal rating of the breaker 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 T3 also carries an IEC-60947-2 rating.

Versions

The T3 frame is available in three versions:

- T = Thermal-magnetic, fixed
- M = Magnetic only (MCP)
- D = Molded case switch

Performance levels

The T3 breaker has two performance levels available:

- N = Normal
- S = Standard

Number of poles

The T3 molded case circuit breaker is available in 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	N	S
240VAC	60 – 225A	50	65
480VAC Δ	60 – 225A	25	35
600Y/347VAC	60 – 225A	10	10
250VDC 2 pole series	60 – 225A	25	35
500VDC 3 pole series	60 – 225A	25	35

IEC 60947-2 Interrupting capacity (kA RMS)

Voltage	Continuous rating	N	S
230VAC	60 – 225A	50	85
415VAC	60 – 225A	36	50
690VAC	60 – 225A	5	8
750VDC 3 pole series	60 – 225A	36	50

T3

225A, 600Y/347V, 480V Δ

Thermal-magnetic

T3 – 225A Frame TMF, thermal magnetic fixed

Breaker	IC at 480VAC	Rating (A)	Magnetic trip (A)	3 pole, 480VAC/500VDC Catalog number
T3N	25kA	60	600	T3N060TW
		70	700	T3N070TW
		80	800	T3N080TW
		90	900	T3N090TW
		100	1000	T3N100TW
		125	1250	T3N125TW
		150	1500	T3N150TW
		175	1750	T3N175TW
		200	2000	T3N200TW
		225	2250	T3N225TW
T3S	35kA	60	600	T3S060TW
		70	700	T3S070TW
		80	800	T3S080TW
		90	900	T3S090TW
		100	1000	T3S100TW
		125	1250	T3S125TW
		150	1500	T3S150TW
		175	1750	T3S175TW
		200	2000	T3S200TW
		225	2250	T3S225TW

T3 – 225A Frame TMF, 100% rated thermal magnetic fixed

Breaker	IC at 480VAC	Rating (A)	Magnetic trip (A)	3 pole, 600/347V VAC/500VDC Catalog number
T3N	25kA	60	600	T3NQ060TW
		70	700	T3NQ070TW
		80	800	T3NQ080TW
		90	900	T3NQ090TW
		100	1000	T3NQ100TW
		125	1250	T3NQ125TW
		150	1500	T3NQ150TW
		175	1750	T3NQ175TW
		200	2000	T3NQ200TW
		225	2250	T3NQ225TW
T3S	35kA	60	600	T3SQ060TW
		70	700	T3SQ070TW
		80	800	T3SQ080TW
		90	900	T3SQ090TW
		100	1000	T3SQ100TW
		125	1250	T3SQ125TW
		150	1500	T3SQ150TW
		175	1750	T3SQ175TW
		200	2000	T3SQ200TW
		225	2250	T3SQ225TW

T3

225A, 600Y/347V, 480V Δ
MCP/Molded case switch

T3 — 225A Frame instantaneous only, (MCP)

Breaker	IC at 488-VAC	Trip unit type	Rating	Adjustment range	3 pole, 480VAC Catalog number
T3S	35kA	Mag only	100A	600 - 1200	T3S100MW
			125A	750 - 1500	T3S125MW
			150A	900 - 1800	T3S150MW
			200A	1200 - 2400	T3S200MW

T3S-D — Molded case switch

Breaker	Interrupting capacity ①	Rating (A)	Magnetic trip (A)	3 pole, 480VAC/500VDC Catalog number
T3S-D	240V, 65kA	150	1500	T3S150DW
	480V, 35kA	225	2250	T3S225DW

① When protected by a OCPD with appropriate ratings.

Ts3

150A, 600V Δ, 225A, 480V Δ

Thermal magnetic



Ts3

Dimensions 3P Fixed Version 6.7H x 4.13W x 4.07D
Weight 6.75 (lbs)

General

The Ts3 breaker family ranges from 15 through 225 amperes. The Ts3 trip mechanisms are non-interchangeable and use sensitive electromagnetic relays for overcurrent trip protection. Heat sensitive bimetals are used for thermal overcurrent protection. Short circuit current protection begins at 10 times the thermal rating of the breaker and uses a magnetic coil principle.

Standards

The UL489/CSA 22.2 version of Ts3 also carries an IEC-60947-2 rating.

Versions

To meet all application needs, the Ts3 is available in various versions:

- T = Thermal-magnetic
- D = Molded case switch
- M = Magnetic only (MCP)

Performance level

Each version is also available in different maximum fault interrupting levels

- N = Normal
- H = High
- L = Extra high

Number of poles

The Ts3 is available in two, 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.

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

Voltage	N	H	L
150AF, 15A-150A			
240 VAC	65	100	150
480 VAC	25	50	85 ^①
600 VAC	14	14	25
500 VDC	35	50	65
600 VDC	20	35	50
225AF, 175A-225A			
240 VAC	65	100	150
480 VAC	25	50	65
600 VAC	–	–	–
500 VDC	20	35	50
600 VDC	–	–	–
IEC-60947-2 Interrupting capacity (kA RMS)			
230 VAC	65	100	170
415 VAC	35	65	85
690 VAC	14	18	20
750 VDC ^②	20	35	50

Ts3

150A, 600V Δ, 225A, 480V Δ
Thermal magnetic

Ts3

150A 600VAC/225A 480VAC
Thermal Magnetic Trip Units

Breaker	IC at 480VAC kA	Rating	Magnetic trip	2 pole, 600VAC/500VDC catalog number	3 pole, 600VAC/DC catalog number
Ts3N	25	15A	500A	Ts3N015TW-2	Ts3N015TW
		20A	500A	Ts3N020TW-2	Ts3N020TW
		25A	500A	Ts3N025TW-2	Ts3N025TW
		30A	500A	Ts3N030TW-2	Ts3N030TW
		35A	500A	Ts3N035TW-2	Ts3N035TW
		40A	500A	Ts3N040TW-2	Ts3N040TW
		50A	500A	Ts3N050TW-2	Ts3N050TW
		60A	600A	Ts3N060TW-2	Ts3N060TW
		70A	700A	Ts3N070TW-2	Ts3N070TW
		80A	800A	Ts3N080TW-2	Ts3N080TW
		90A	900A	Ts3N090TW-2	Ts3N090TW
		100A	1000A	Ts3N100TW-2	Ts3N100TW
		125A	1250A	Ts3N125TW-2	Ts3N125TW
		150A	1500A	Ts3N150TW-2	Ts3N150TW

Breaker	IC at 480VAC kA	Rating	Magnetic trip	2 pole, 600VAC/500VDC catalog number	3 pole, 600VAC/DC catalog number
Ts3H	50	15A	500A	Ts3H015TW-2	Ts3H015TW
		20A	500A	Ts3H020TW-2	Ts3H020TW
		25A	500A	Ts3H025TW-2	Ts3H025TW
		30A	500A	Ts3H030TW-2	Ts3H030TW
		35A	500A	Ts3H035TW-2	Ts3H035TW
		40A	500A	Ts3H040TW-2	Ts3H040TW
		50A	500A	Ts3H050TW-2	Ts3H050TW
		60A	600A	Ts3H060TW-2	Ts3H060TW
		70A	700A	Ts3H070TW-2	Ts3H070TW
		80A	800A	Ts3H080TW-2	Ts3H080TW
		90A	900A	Ts3H090TW-2	Ts3H090TW
		100A	1000A	Ts3H100TW-2	Ts3H100TW
		125A	1250A	Ts3H125TW-2	Ts3H125TW
		150A	1500A	Ts3H150TW-2	Ts3H150TW

Breaker	IC at 480VAC kA	Rating	Magnetic trip	2 pole, 600VAC/500VDC catalog number	3 pole, 600VAC/DC catalog number
Ts3L	65	15A	500A	Ts3L015TW-2	Ts3L015TW
		20A	500A	Ts3L020TW-2	Ts3L020TW
		25A	500A	Ts3L025TW-2	Ts3L025TW
		30A	500A	Ts3L030TW-2	Ts3L030TW
	85	35A	500A	Ts3L035TW-2	Ts3L035TW
		40A	500A	Ts3L040TW-2	Ts3L040TW
		50A	500A	Ts3L050TW-2	Ts3L050TW
		60A	600A	Ts3L060TW-2	Ts3L060TW
		70A	700A	Ts3L070TW-2	Ts3L070TW
		80A	800A	Ts3L080TW-2	Ts3L080TW
		90A	900A	Ts3L090TW-2	Ts3L090TW
		100A	1000A	Ts3L100TW-2	Ts3L100TW
		125A	1250A	Ts3L125TW-2	Ts3L125TW
		150A	1500A	Ts3L150TW-2	Ts3L150TW

NOTE: See pages 17.71 - 17.83 for electrical/mechanical accessories.

Ts3

150A, 600V Δ, 225A, 480V Δ, 100% rated
Thermal magnetic

Ts3

150A 600VAC/225A 480VAC
Thermal Magnetic Trip Units 100% Rated

Breaker	IC at 480VAC	Rating	Magnetic trip	3 pole 600VAC/DC catalog number
Ts3NQ	25	15A	500A	Ts3NQ015TW
		20A	500A	Ts3NQ020TW
		25A	500A	Ts3NQ025TW
		30A	500A	Ts3NQ030TW
		35A	500A	Ts3NQ035TW
		40A	500A	Ts3NQ040TW
		50A	500A	Ts3NQ050TW
		60A	600A	Ts3NQ060TW
		70A	700A	Ts3NQ070TW
		80A	800A	Ts3NQ080TW
		90A	900A	Ts3NQ090TW
		100A	1000A	Ts3NQ100TW
		125A	1250A	Ts3NQ125TW
		150A	1500A	Ts3NQ150TW

Breaker	IC at 480VAC	Rating	Magnetic trip	3 pole catalog number
Ts3LQ	65kA	15A	500A	Ts3LQ015TW
		20A	500A	Ts3LQ020TW
		25A	500A	Ts3LQ025TW
		30A	500A	Ts3LQ030TW
	85kA	35A	500A	Ts3LQ035TW
		40A	500A	Ts3LQ040TW
		50A	500A	Ts3LQ050TW
		60A	600A	Ts3LQ060TW
		70A	700A	Ts3LQ070TW
		80A	800A	Ts3LQ080TW
		90A	900A	Ts3LQ090TW
		100A	1000A	Ts3LQ100TW
		125A	1250A	Ts3LQ125TW
		150A	1500A	Ts3LQ150TW

NOTE: See pages 17.71-17.83 for electrical/mechanical accessories.

Breaker	IC at 480VAC	Rating	Magnetic trip	3 pole catalog number
Ts3HQ	50kA	15A	500A	Ts3HQ015TW
		20A	500A	Ts3HQ020TW
		25A	500A	Ts3HQ025TW
		30A	500A	Ts3HQ030TW
		35A	500A	Ts3HQ035TW
		40A	500A	Ts3HQ040TW
		50A	500A	Ts3HQ050TW
		60A	600A	Ts3HQ060TW
		70A	700A	Ts3HQ070TW
		80A	800A	Ts3HQ080TW
		90A	900A	Ts3HQ090TW
		100A	1000A	Ts3HQ100TW
		125A	1250A	Ts3HQ125TW
		150A	1500A	Ts3HQ150TW

Ts3

150/225A 600VAC

MCP/Molded case switch

Magnetic only (MCP)

Breaker	IC at 480VAC	Trip unit type	Rating	Adjustment range	3 pole 600VAC Catalog number
Ts3L	25	Magnetic only	3	12-36	Ts3L003MW
	25	Magnetic only	5	20-60	Ts3L005MW
	25	Magnetic only	10	40-120	Ts3L010MW
	25	Magnetic only	25	100-300	Ts3L025MW
	85	Magnetic only	50	200-600	Ts3L050MW
Ts3L	85	Magnetic only	100	400-1200	Ts3L100MW
	85	Magnetic only	125	500-1500	Ts3L125MW
	85	Magnetic only	150	600-1500	Ts3L150MW
	65	Magnetic only	175 ①	700-2100	Ts3L175MW
	65	Magnetic only	200 ①	800-2400	Ts3L200MW

Molded case switch ②

Type	IC at 480V (2)	Magnetic trip	Amps	3 pole 600V catalog number
Ts3H	50	1500	150	Ts3H150DW
	50	2250	225 ①	Ts3H225DW

NOTE: See pages 17.71-17.83 for electrical/mechanical accessories.

T4

250A, 600V Δ

Electronic and thermal magnetic

Dimensions 3P Fixed Version 8.07H x 4.13W x 4.07D
Weight 6.18 (lbs)



T4

General

The T4 breaker is a 250 amp frame with either a microprocessor based over current protective trip system or a thermal magnetic trip unit.

Standards

The UL489/CSA 22.2 version of T4 also carries an IEC-60947-2 rating.

Versions

To meet all application requirements, the T4 is available in the following versions:

- T = Thermal-magnetic
- B = Selectable & adjustable LI or LS
- C = Adjustable LSI
- E = Adjustable LSIG
- D = Molded Case Switch
- E5 = Electronic instantaneous only (MCP)

Trip functions

These trip functions are available:

- L = Long time
- S = Short time
- I = Instantaneous
- G = Ground fault

Performance levels

Each version is also available in different maximum fault interrupting levels:

- N = Normal
- S = Standard
- H = High - UL Current Limiting
- L = Extra high
- V = Very high - UL Current Limiting

Number of poles ^③

The T4 is available in two, 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.

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

Voltage	N	S	H	L	V
240VAC	65	100	150	200	200
480VAC	25	35	65	100	150
600VAC	18	25	35	65	100
500VDC ^①	25	35	50	65	100
600VDC ^②	16	25	35	50	65

IEC 60947-2 Interrupting capacity (kA RMS)

Voltage	N	S	H	L	V
230VAC	70	85	100	200	200
415VAC	36	50	70	120	200
690VAC	20	25	40	70	80
750VDC ^②	16	25	36	50	70

^① 2 poles in series.

^② 3 poles in series.

^③ 2 pole breakers available in N version only. 4 pole breakers available in N and H version only.

T4

250A, 600V Δ

Adjustable thermal magnetic

20A - 250A Frame

Breaker	IC at 480VAC	Rating	Magnetic trip	2 pole, 600VAC/600VDC catalog number	3 pole, 600VAC/600VDC catalog number
T4N	25	125A	625-1250	T4N125TW-2	T4N125TW
		150A	750-1500	T4N150TW-2	T4N150TW
		200A	1000-2000	T4N200TW-2	T4N200TW
		250A	1250-2500	T4N250TW-2	T4N250TW
T4S	35	125A	625-1250	-	T4S125TW
		150A	750-1500	-	T4S150TW
		200A	1000-2000	-	T4S200TW
		250A	1250-2500	-	T4S250TW
T4H UL Current Limiting	65	125A	625-1250	-	T4H125TW
		150A	750-1500	-	T4H150TW
		200A	1000-2000	-	T4H200TW
		250A	1250-2500	-	T4H250TW
T4L	100	125A	625-1250	-	T4L125TW
		150A	750-1500	-	T4L150TW
		200A	1000-2000	-	T4L200TW
		250A	1250-2500	-	T4L250TW
T4V UL Current Limiting	150	125A	625-1250	-	T4V125TW
		150A	750-1500	-	T4V150TW
		200A	1000-2000	-	T4V200TW
		250A	1250-2500	-	T4V250TW

NOTE: See pages 17.71-17.83 for electrical/mechanical accessories.

T4

250A, 600V Δ 100% rated

Adjustable thermal magnetic

30A - 250A Frame 100% rated

Breaker	IC at 480 VAC kA	Rating	Magnetic trip	3 pole, 600VAC/600VDC Catalog number
T4N	25	125A	625-1250	T4NQ125TW
		150A	750-1500	T4NQ150TW
		200A	1000-2000	T4NQ200TW
		250A	1250-2500	T4NQ250TW
T4S	35	125A	625-1250	T4SQ125TW
		150A	750-1500	T4SQ150TW
		200A	1000-2000	T4SQ200TW
		250A	1250-2500	T4SQ250TW
T4H UL Current Limiting	65	125A	625-1250	T4HQ125TW
		150A	750-1500	T4HQ150TW
		200A	1000-2000	T4HQ200TW
		250A	1250-2500	T4HQ250TW
T4L	100	125A	625-1250	T4LQ125TW
		150A	750-1500	T4LQ150TW
		200A	1000-2000	T4LQ200TW
		250A	1250-2500	T4LQ250TW
T4V UL Current Limiting	150	125A	625-1250	T4VQ125TW
		150A	750-1500	T4VQ150TW
		200A	1000-2000	T4VQ200TW
		250A	1250-2500	T4VQ250TW

NOTE: See pages 17.71-17.83 for electrical/mechanical accessories.

T4

250A, 600V Δ

Electronic (AC only)

100A Frame, electronic trip unit (AC only)

Breaker	IC at 480VAC kA	Trip Unit	2 pole, 600V catalog number	3 pole, 600V catalog number
T4N	25	PR221 LS/I	T4N100BW-2	T4N100BW
		PR222 LSI	T4N100CW-2	T4N100CW
		PR222 LSIG	T4N100EW-2	T4N100EW
T4S	35	PR221 LS/I	-	T4S100BW
		PR222 LSI	-	T4S100CW
		PR222 LSIG	-	T4S100EW
T4H UL Current Limiting	65	PR221 LS/I	-	T4H100BW
		PR222 LSI	-	T4H100CW
		PR222 LSIG	-	T4H100EW
T4L	100	PR221 LS/I	-	T4L100BW
		PR222 LSI	-	T4L100CW
		PR222 LSIG	-	T4L100EW
T4V UL Current Limiting	150	PR221 LS/I	-	T4V100BW
		PR222 LSI	-	T4V100CW
		PR222 LSIG	-	T4V100EW

150A Frame, electronic trip unit (AC only)

Breaker	IC at 480VAC kA	Trip Unit	2 pole, 600V catalog number	3 pole, 600V catalog number
T4N	25	PR221 LS/I	T4N150BW-2	T4N150BW
		PR222 LSI	T4N150CW-2	T4N150CW
		PR222 LSIG	T4N150EW-2	T4N150EW
T4S	35	PR221 LS/I	-	T4S150BW
		PR222 LSI	-	T4S150CW
		PR222 LSIG	-	T4S150EW
T4H UL Current Limiting	65	PR221 LS/I	-	T4H150BW
		PR222 LSI	-	T4H150CW
		PR222 LSIG	-	T4H150EW
T4L	100	PR221 LS/I	-	T4L150BW
		PR222 LSI	-	T4L150CW
		PR222 LSIG	-	T4L150EW
T4V UL Current Limiting	150	PR221 LS/I	-	T4V150BW
		PR222 LSI	-	T4V150CW
		PR222 LSIG	-	T4V150EW

250A Frame, electronic trip unit (AC only)

Breaker	IC at 480VAC kA	Trip Unit	2 pole, 600V catalog number	3 pole, 600V catalog number
T4N	25	PR221 LS/I	T4N250BW-2	T4N250BW
		PR222 LSI	T4N250CW-2	T4N250CW
		PR222 LSIG	T4N250EW-2	T4N250EW
T4S	35	PR221 LS/I	-	T4S250BW
		PR222 LSI	-	T4S250CW
		PR222 LSIG	-	T4S250EW
T4H UL Current Limiting	65	PR221 LS/I	-	T4H250BW
		PR222 LSI	-	T4H250CW
		PR222 LSIG	-	T4H250EW
T4L	100	PR221 LS/I	-	T4L250BW
		PR222 LSI	-	T4L250CW
		PR222 LSIG	-	T4L250EW
T4V UL Current Limiting	150	PR221 LS/I	-	T4V250BW
		PR222 LSI	-	T4V250CW
		PR222 LSIG	-	T4V250EW

NOTE: See pages 17.71-17.83 for electrical/mechanical accessories.

T4

250A, 600V Δ, 100% Rated Electronic (AC only)

100A Frame - 100% rated, electronic trip unit (AC only)

Breaker	IC at 480VAC kA	Trip Unit	3 pole, 600V catalog number
T4N	25	PR221 LS/I	T4NQ100BW
		PR222 LSI	T4NQ100CW
		PR222 LSIG	T4NQ100EW
T4S	35	PR221 LS/I	T4SQ100BW
		PR222 LSI	T4SQ100CW
		PR222 LSIG	T4SQ100EW
T4H UL Current Limiting	65	PR221 LS/I	T4HQ100BW
		PR222 LSI	T4HQ100CW
		PR222 LSIG	T4HQ100EW
T4L	100	PR221 LS/I	T4LQ100BW
		PR222 LSI	T4LQ100CW
		PR222 LSIG	T4LQ100EW
T4V UL Current Limiting	150	PR221 LS/I	T4VQ100BW
		PR222 LSI	T4VQ100CW
		PR222 LSIG	T4VQ100EW

250A Frame - 100% rated, electronic trip unit (AC only)

Breaker	IC at 480VAC kA	Trip Unit	3 pole, 600V catalog number
T4N	25	PR221 LS/I	T4NQ250BW
		PR222 LSI	T4NQ250CW
		PR222 LSIG	T4NQ250EW
T4S	35	PR221 LS/I	T4SQ250BW
		PR222 LSI	T4SQ250CW
		PR222 LSIG	T4SQ250EW
T4H UL Current Limiting	65	PR221 LS/I	T4HQ250BW
		PR222 LSI	T4HQ250CW
		PR222 LSIG	T4HQ250EW
T4L	100	PR221 LS/I	T4LQ250BW
		PR222 LSI	T4LQ250CW
		PR222 LSIG	T4LQ250EW
T4V UL Current Limiting	150	PR221 LS/I	T4VQ250BW
		PR222 LSI	T4VQ250CW
		PR222 LSIG	T4VQ250EW

NOTE: See pages 17.71-17.83 for electrical/mechanical accessories.

150A Frame - 100% rated, electronic trip unit (AC only)

Breaker	IC at 480VAC kA	Trip Unit	3 pole, 600V catalog number
T4N	25	PR221 LS/I	T4NQ150BW
		PR222 LSI	T4NQ150CW
		PR222 LSIG	T4NQ150EW
T4S	35	PR221 LS/I	T4SQ150BW
		PR222 LSI	T4SQ150CW
		PR222 LSIG	T4SQ150EW
T4H UL Current Limiting	65	PR221 LS/I	T4HQ150BW
		PR222 LSI	T4HQ150CW
		PR222 LSIG	T4HQ150EW
T4L	100	PR221 LS/I	T4LQ150BW
		PR222 LSI	T4LQ150CW
		PR222 LSIG	T4LQ150EW
T4V UL Current Limiting	150	PR221 LS/I	T4VQ150BW
		PR222 LSI	T4VQ150CW
		PR222 LSIG	T4VQ150EW

T4

250A, 600V Δ

Instantaneous only, MCP/Molded case switch

Instantaneous only MCPs

T4 - 250A Frame magnetic only (MCP - AC only)

Breaker	IC at 480VAC	Trip unit type	Rating	Adjustment range	3 pole, 600VAC Catalog number
T4N	25kA	Instantaneous only	100A	100-1000	T4N100E5W
			150A	150-1500	T4N150E5W
			250A	250-2500	T4N250E5W
T4S	35kA	Instantaneous only	100A	100-1000	T4S100E5W
			150A	150-1500	T4S150E5W
			250A	250-2500	T4S250E5W
T4H	65kA	Instantaneous only	100A	100-1000	T4H100E5W
			150A	150-1500	T4H150E5W
			250A	250-2500	T4H250E5W
T4L	100kA	Instantaneous only	100A	100-1000	T4L100E5W
			150A	150-1500	T4L150E5W
			250A	250-2500	T4L250E5W

Molded case switch ①

Type	IC at 480VAC	Amps	Magnetic trip	3 pole 600V catalog number
T4N-D	25kA	250	3000	T4N250DW
T4S-D	35kA	250	3000	T4S250DW
T4H-D	65kA	250	3000	T4H250DW
T4L-D	100kA	250	3000	T4L250DW
T4V-D	150kA	250	3000	T4V250DW

NOTE: See pages 17.71-17.83 for electrical/mechanical accessories.

T5

400/600A, 600V Δ

Electronic and thermal magnetic



T5

Dimensions 3P Fixed Version 8.07H x 5.51W x 4.07D
Weight 8.55 (lbs)

General

The T5 breaker is a 400/600 amp frame with either a microprocessor based over current protective trip system or a thermal magnetic trip unit. ③

Standards

The UL489/CSA 22.2 version of T5 also carries an IEC-60947-2 rating.

Versions

To meet all application requirements, the T5 is available in the following versions:

- T = Thermal-magnetic
- B = Selectable & adjustable LI or LS
- C = Adjustable LSI
- E = Adjustable LSIG
- D = Molded Case Switch
- E5 = Electronic instantaneous only (MCP)

Trip functions

These trip functions are available:

- L = Long time
- S = Short time
- I = Instantaneous
- G = Ground fault

Performance levels

Each version is also available in different maximum fault interrupting levels:

- N = Normal
- S = Standard
- H = High - UL Current Limiting
- L = Extra high
- V = Very high - UL Current Limiting

Number of poles ④

The T5 is available in two, 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.

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

Voltage	N	S	H	L	V
240VAC	65	100	150	200	200
480VAC	25	35	65	100	150
600VAC	18	25	35	65	100
500VDC ①	25	35	50	65	100
600VDC ②	16	25	35	50	65

IEC 60947-2 Interrupting capacity (kA RMS)

Voltage	N	S	H	L	V
230VAC	70	85	100	200	200
415VAC	36	50	70	120	200
690VAC	20	25	40	70	80
750VDC ②	16	25	36	50	70

① 2 poles in series.

② 3 poles in series.

③ T5 600A not available with thermal magnetic trip unit.

④ 2 pole available in N version only. 4 pole available in N and H version only.

T5

400/600A, 600V Δ

Thermal magnetic ①

300A - 400A Frames - thermal-magnetic trip units

Breaker	IC at 480VAC kA	Rating	Magnetic trip	2 pole, 600VAC/500VDC catalog number	3 pole, 600VAC/600VDC catalog number
T5N	25	300A	1500-3000	T5N300TW-2	T5N300TW
		400A	2000-4000	T5N400TW-2	T5N400TW
T5S	35	300A	1500-3000	-	T5S300TW
		400A	2000-4000		T5S400TW
T5H UL Current Limiting	65	300A	1500-3000	-	T5H300TW
		400A	2000-4000		T5H400TW
T5L	100	300A	1500-3000	-	T5L300TW
		400A	2000-4000		T5L400TW
T5V UL Current Limiting	150	300A	1500-3000	-	T5V300TW
		400A	2000-4000		T5V400TW

300A - 400A Frames - 100% rated, thermal-magnetic

Breaker	IC at 480VAC	Rating	Magnetic trip	3 pole, 600VAC/600VDC Catalog number
T5N	25	300A	1500-3000	T5NQ300TW
		400A	2000-4000	T5NQ400TW
T5S	35	300A	1500-3000	T5SQ300TW
		400A	2000-4000	T5SQ400TW
T5H UL Current Limiting	65	300A	1500-3000	T5HQ300TW
		400A	2000-4000	T5HQ400TW
T5L	100	300A	1500-3000	T5LQ300TW
		400A	2000-4000	T5LQ400TW
T5V UL Current Limiting	150	300A	1500-3000	T5VQ300TW
		400A	2000-4000	T5VQ400TW

NOTE: See pages 17.71-17.83 for electrical/mechanical accessories.

T5

400/600A, 600V Δ

Electronic (AC only)

300A Frame, electronic trip unit (AC only)

Breaker	IC at 480VAC kA	Trip Unit	2 pole, 600V catalog number	3 pole, 600V catalog number
T5N	25	PR221 LS/I	T5N300BW-2	T5N300BW
		PR222 LSI	T5N300CW-2	T5N300CW
		PR222 LSIG	T5N300EW-2	T5N300EW
T5S	35	PR221 LS/I	-	T5S300BW
		PR222 LSI	-	T5S300CW
		PR222 LSIG	-	T5S300EW
T5H UL Current Limiting	65	PR221 LS/I	-	T5H300BW
		PR222 LSI	-	T5H300CW
		PR222 LSIG	-	T5H300EW
T5L	100	PR221 LS/I	-	T5L300BW
		PR222 LSI	-	T5L300CW
		PR222 LSIG	-	T5L300EW
T5V UL Current Limiting	150	PR221 LS/I	-	T5V300BW
		PR222 LSI	-	T5V300CW
		PR222 LSIG	-	T5V300EW

400A Frame, electronic trip unit (AC only)

Breaker	IC at 480VAC kA	Trip Unit	2 pole, 600V catalog number	3 pole, 600V catalog number
T5N	25	PR221 LS/I	T5N400BW-2	T5N400BW
		PR222 LSI	T5N400CW-2	T5N400CW
		PR222 LSIG	T5N400EW-2	T5N400EW
T5S	35	PR221 LS/I	-	T5S400BW
		PR222 LSI	-	T5S400CW
		PR222 LSIG	-	T5S400EW
T5H UL Current Limiting	65	PR221 LS/I	-	T5H400BW
		PR222 LSI	-	T5H400CW
		PR222 LSIG	-	T5H400EW
T5L	100	PR221 LS/I	-	T5L400BW
		PR222 LSI	-	T5L400CW
		PR222 LSIG	-	T5L400EW
T5V UL Current Limiting	150	PR221 LS/I	-	T5V400BW
		PR222 LSI	-	T5V400CW
		PR222 LSIG	-	T5V400EW

600A Frame, electronic trip unit (AC only) ①

Breaker	IC at 480VAC kA	Trip Unit	3 pole, 600V catalog number
T5N	25	PR221 LS/I	T5N600BW
		PR222 LSI	T5N600CW
		PR222 LSIG	T5N600EW
T5S	35	PR221 LS/I	T5S600BW
		PR222 LSI	T5S600CW
		PR222 LSIG	T5S600EW
T5H	65	PR221 LS/I	T5H600BW
		PR222 LSI	T5H600CW
		PR222 LSIG	T5H600EW
T5L	100	PR221 LS/I	T5L600BW
		PR222 LSI	T5L600CW
		PR222 LSIG	T5L600EW
T5V	150	PR221 LS/I	T5V600BW
		PR222 LSI	T5V600CW
		PR222 LSIG	T5V600EW

NOTE: See pages 17.71-17.83 for electrical/mechanical accessories.

① T5 600A not available in 2 pole version.

T5

400/600A, 600V Δ, 100% Rated ①

Electronic (AC only)

300A Frame – 100% rated, electronic trip units (AC only)

Breaker	IC at 480VAC kA	Trip Unit	3 pole, 600V catalog number
T5N	25	PR221 LS/I	T5NQ300BW
		PR222 LSI	T5NQ300CW
		PR222 LSIG	T5NQ300EW
T5S	35	PR221 LS/I	T5SQ300BW
		PR222 LSI	T5SQ300CW
		PR222 LSIG	T5SQ300EW
T5H UL Current limiting	65	PR221 LS/I	T5HQ300BW
		PR222 LSI	T5HQ300CW
		PR222 LSIG	T5HQ300EW
T5L	100	PR221 LS/I	T5LQ300BW
		PR222 LSI	T5LQ300CW
		PR222 LSIG	T5LQ300EW
T5V UL Current limiting	150	PR221 LS/I	T5VQ300BW
		PR222 LSI	T5VQ300CW
		PR222 LSIG	T5VQ300EW

400A Frame – 100% rated, electronic trip units (AC only)

Breaker	IC at 480VAC kA	Trip Unit	3 pole, 600V catalog number
T5N	25	PR221 LS/I	T5NQ400BW
		PR222 LSI	T5NQ400CW
		PR222 LSIG	T5NQ400EW
T5S	35	PR221 LS/I	T5SQ400BW
		PR222 LSI	T5SQ400CW
		PR222 LSIG	T5SQ400EW
T5H UL Current limiting	65	PR221 LS/I	T5HQ400BW
		PR222 LSI	T5HQ400CW
		PR222 LSIG	T5HQ400EW
T5L	100	PR221 LS/I	T5LQ400BW
		PR222 LSI	T5LQ400CW
		PR222 LSIG	T5LQ400EW
T5V UL Current limiting	150	PR221 LS/I	T5VQ400BW
		PR222 LSI	T5VQ400CW
		PR222 LSIG	T5VQ400EW

NOTE: See pages 17.71-17.83 for electrical/mechanical accessories.

T5

400/600A, 600V Δ

Instantaneous only, MCP/Molded case switch

T5 - 400A Frame, magnetic only (MCP - AC only)

Breaker	IC at 480VAC	Trip unit type	Rating	Adjustment range	3 pole, 600VAC Catalog number
T5N	25kA	Instantaneous only	300A	300-3000	T5N300E5W
			400A	400-4000	T5N400E5W
T5S	35kA	Instantaneous only	300A	300-3000	T5S300E5W
			400A	400-4000	T5S400E5W
T5H	65kA	Instantaneous only	300A	300-3000	T5H300E5W
			400A	400-4000	T5H400E5W
T5L	100kA	Instantaneous only	300A	300-3000	T5L300E5W
			400A	400-4000	T5L400E5W

T5 - 600A Frame, magnetic only (MCP - AC only)

Breaker	IC at 480VAC	Trip unit type	Rating	Adjustment range	3 pole, 600VAC Catalog number
T5N	25kA	Instantaneous only	600A	600-6000	T5N600E5W
T5S	35kA	Instantaneous only	600A	600-6000	T5S600E5W
T5H	65kA	Instantaneous only	600A	600-6000	T5H600E5W
T5L	100kA	Instantaneous only	600A	600-6000	T5L600E5W

Molded case switch ①

Type	IC at 480VAC	Amps	Magnetic trip	3 pole 600V catalog number
T5N-D	25kA	400	5000	T5N400DW
T5S-D	35kA	400	5000	T5S400DW
T5H-D	65kA	400	5000	T5H400DW
T5L-D	100kA	400	5000	T5L400DW
T5V-D	150kA	400	5000	T5V400DW
T5N-D	25kA	600	6000	T5N600DW
T5S-D	35kA	600	6000	T5S600DW
T5H-D	65kA	600	6000	T5H600DW
T5L-D	100kA	600	6000	T5L600DW
T5V-D	150kA	600	6000	T5V600DW

NOTE: See pages 17.71-17.83 for electrical/mechanical accessories.

① When protected by a OCPD with appropriate ratings.

T6

600A, 800A, 600V Δ

Thermal magnetic and electronic

Dimensions 3P Fixed Version 10.55H x 8.26W x 4.07D
Weight 20.9 (lbs)



T6

General

The T6 breaker is an 800 amp frame with either a microprocessor based over current protective trip system or a thermal magnetic trip unit. The T6 is available as a 600 or 800A frame.

Standards

The UL489/CSA 22.2 version of T6 also carries an IEC-60947-2 rating.

Versions

To meet all application requirements, the T6 is available in the following versions:

- T = Thermal-magnetic, fixed
- B = Selectable & adjustable LI or LS
- C = Adjustable LSI
- E = Adjustable LSIG
- D = Molded Case Switch
- E5 = Electronic instantaneous only (MCP)

Trip functions

These trip functions are available:

- L = Long time
- S = Short time
- I = Instantaneous
- G = Ground fault

Performance levels

Each version is also available in different maximum fault interrupting levels:

- N = Normal
- S = Standard
- H = High
- L = Extra high

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

Voltage	N	S	H	L
240VAC	65	100	200	200
480VAC	35	50	65	100
600VAC	20	25	35	42
500VDC ①	35	35	50	65
600VDC ②	20	20	35	50

IEC 60947-2 Interrupting capacity (kA RMS)

Voltage	N	S	H	L
230VAC	70	85	100	200
415VAC	36	50	70	100
690VAC	20	22	25	30
750VDC ②	16	20	36	50

17 Number of poles ③

The T6 is available as a three and four pole breaker. Estimate 4 pole pricing by adding 35% to the 3 pole price and contact your ABB sales person for details.

① 2 poles in series.
 ② 3 poles in series.
 ③ 4 pole available N and H version only.

T6

600A, 800A, 600V Δ

Thermal magnetic and electronic

T6

600A, 800A, 600V

Thermal Magnetic Trip Units

Breaker	IC at 480 VAC kA	Rating	Magnetic trip	3 pole, 600VAC/600VDC catalog number
T6N	35	600A	3000 - 6000A	T6N600TW
		800A	4000 - 8000A	T6N800TW
T6S	50	600A	3000 - 6000A	T6S600TW
		800A	4000 - 8000A	T6S800TW
T6H	65	600A	3000 - 6000A	T6H600TW
		800A	4000 - 8000A	T6H800TW
T6L	100	600A	3000 - 6000A	T6L600TW
		800A	4000 - 8000A	T6L800TW

T6

600A, 800A, 600V

Thermal Magnetic Trip Units 100% rated

Breaker	IC at 480 VAC kA	Rating	Magnetic trip	3 pole, 600VAC/600VDC catalog number
T6N	35	600A	3000 - 6000A	T6NQ600TW
		800A	4000 - 8000A	T6NQ800TW
T6S	50	600A	3000 - 6000A	T6SQ600TW
		800A	4000 - 8000A	T6SQ800TW
T6H	65	600A	3000 - 6000A	T6HQ600TW
		800A	4000 - 8000A	T6HQ800TW
T6L	100	600A	3000 - 6000A	T6LQ600TW
		800A	4000 - 8000A	T6LQ800TW

T6

600A, 600V

Electronic Trip Units

Breaker	IC at 480VAC	Trip type	Adjustment	3 pole, 600VAC catalog number
T6N	35	PR221	LS/I	T6N600BW
		PR222	LSI	T6N600CW
		PR222	LSIG	T6N600EW
T6S	50	PR221	LS/I	T6S600BW
		PR222	LSI	T6S600CW
		PR222	LSIG	T6S600EW
T6H	65	PR221	LS/I	T6H600BW
		PR222	LSI	T6H600CW
		PR222	LSIG	T6H600EW
T6L	100	PR221	LS/I	T6L600BW
		PR222	LSI	T6L600CW
		PR222	LSIG	T6L600EW

T6

800A, 600V

Electronic Trip Units

Breaker	IC at 480VAC	Trip type	Adjustment	3 pole, 600VAC catalog number
T6N	35	PR221	LS/I	T6N800BW
		PR222	LSI	T6N800CW
		PR222	LSIG	T6N800EW
T6S	50	PR221	LS/I	T6S800BW
		PR222	LSI	T6S800CW
		PR222	LSIG	T6S800EW
T6H	65	PR221	LS/I	T6H800BW
		PR222	LSI	T6H800CW
		PR222	LSIG	T6H800EW
T6L	100	PR221	LS/I	T6L800BW
		PR222	LSI	T6L800CW
		PR222	LSIG	T6L800EW

NOTE: See pages 17.71-17.83 for electrical/mechanical accessories.

T6

600A, 800A, 600V Δ

Thermal magnetic and electronic

T6 600A, 600V Δ Electronic Trip Units 100% Rated

Breaker	IC at 480VAC	Trip type	Adjustment	3 pole, 600VAC catalog number
T6N	35	PR221	LS/I	T6NQ600BW
		PR222	LSI	T6NQ600CW
		PR222	LSIG	T6NQ600EW
T6S	50	PR221	LS/I	T6SQ600BW
		PR222	LSI	T6SQ600CW
		PR222	LSIG	T6SQ600EW
T6H	65	PR221	LS/I	T6HQ600BW
		PR222	LSI	T6HQ600CW
		PR222	LSIG	T6HQ600EW
T6L	100	PR221	LS/I	T6LQ600BW
		PR222	LSI	T6LQ600CW
		PR222	LSIG	T6LQ600EW

T6 800A, 600V Electronic Trip Units 100% Rated

Breaker	IC at 480VAC	Trip type	Adjustment	3 pole, 600VAC catalog number
T6N	35	PR221	LS/I	T6NQ800BW
		PR222	LSI	T6NQ800CW
		PR222	LSIG	T6NQ800EW
T6S	50	PR221	LS/I	T6SQ800BW
		PR222	LSI	T6SQ800CW
		PR222	LSIG	T6SQ800EW
T6H	65	PR221	LS/I	T6HQ800BW
		PR222	LSI	T6HQ800CW
		PR222	LSIG	T6HQ800EW
T6L	100	PR221	LS/I	T6LQ800BW
		PR222	LSI	T6LQ800CW
		PR222	LSIG	T6LQ800EW

T6 600A, 600V Δ Electronic Trip Units Instantaneous Only

Breaker	IC at 480VAC	kA	Trip type	Adjustment Range	3 pole, 600VAC catalog number
T6N	35		PR221	600-6000	T6N600E5W
T6S	50		PR221	600-6000	T6S600E5W
T6H	65		PR221	600-6000	T6H600E5W
T6L	100		PR221	600-6000	T6L600E5W

T6 800A, 600V Electronic Trip Units Instantaneous Only

Breaker	IC at 480VAC	kA	Trip type	Adjustment Range	3 pole, 600VAC catalog number
T6N	35		PR221	800-8000	T6N800E5W
T6S	50		PR221	800-8000	T6S800E5W
T6H	65		PR221	800-8000	T6H800E5W
T6L	100		PR221	800-8000	T6L800E5W

T6 800A, 600V Molded Case Switch

Breaker	IC at 480VAC ①	Amp	Magnetic Trip	3 pole, 600VAC catalog number
T6H	65	800	10,000	T6H800DW

① When protected by a OCPD with appropriate ratings.

T7 (Toggle)

1000A, 1200A, 600V Δ

Electronic

Dimensions 3P Fixed Version 10.55H x 8.26W x 6.06D
Weight 21.4 (lbs)



T7

General

The T7 breaker is a 1200 amp frame with a microprocessor based over current protective trip system.

Standards

The UL489/CSA 22.2 version of T7 also carries an IEC-60947-2 rating.

Versions

To meet all application requirements, the T7 is available in the following versions:

- B = Selectable & adjustable LI or LS — Dip switch settings
- C = Adjustable LSI — Dip switch settings
- E = Adjustable LSI — Dip switch settings
- D = Molded Case Switch
- P = LI — LCD display
- R = LSI — LCD display
- S = LSI — LCD display

Trip functions

These trip functions are available:

- L = Long time
- S = Short time
- I = Instantaneous
- G = Ground fault

Performance levels

Each version is also available in different maximum fault interrupting levels:

- S = Standard
- H = High
- L = Extra high

Number of poles ^①

The T7 is available as a 3 and 4 pole breaker. Estimate 4 pole pricing by adding 35% to the 3 pole price and contact your ABB sales person for details.

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

Voltage	S	H	L
240VAC	65	100	150
480VAC	50	65	100
600VAC	25	50	65

IEC 60947-2 Interrupting capacity (kA RMS)

Voltage	S	H	L
230VAC	85	100	200
415VAC	50	70	120
690VAC	30	42	50

^① 4 Pole available S, H and L version.

T7

1000A, 1200A, 600V Δ

Electronic

T7S, 1000A, 600V

Electronic

Breaker	IC at 480VAC kA	Trip type	Adjustment	3 pole, 600VAC catalog number
T7S	50	PR231/P	LS/I	T7S1000BW
		PR232/P	LSI	T7S1000CW
		PR331/P	LSIG	T7S1000EW
		PR332/P	LI	T7S1000PW
		PR332/P	LSI	T7S1000RW
		PR332/P	LSIG	T7S1000SW

T7L, 1000A, 600V

Electronic

Breaker	IC at 480VAC kA	Trip type	Adjustment	3 pole, 600VAC catalog number
T7L	100	PR231/P	LS/I	T7L1000BW
		PR232/P	LSI	T7L1000CW
		PR331/P	LSIG	T7L1000EW
		PR332/P	LI	T7L1000PW
		PR332/P	LSI	T7L1000RW
		PR332/P	LSIG	T7L1000SW

T7S, 1200A, 600V

Electronic

Breaker	IC at 480VAC kA	Trip type	Adjustment	3 pole, 600VAC catalog number
T7S	50	PR231/P	LS/I	T7S1200BW
		PR232/P	LSI	T7S1200CW
		PR331/P	LSIG	T7S1200EW
		PR332/P	LI	T7S1200PW
		PR332/P	LSI	T7S1200RW
		PR332/P	LSIG	T7S1200SW

T7L, 1200A, 600V

Electronic

Breaker	IC at 480VAC kA	Trip type	Adjustment	3 pole, 600VAC catalog number
T7L	100	PR231/P	LS/I	T7L1200BW
		PR232/P	LSI	T7L1200CW
		PR331/P	LSIG	T7L1200EW
		PR332/P	LI	T7L1200PW
		PR332/P	LSI	T7L1200RW
		PR332/P	LSIG	T7L1200SW

NOTE: See pages 17.71-17.83 for electrical/mechanical accessories.

T7H, 1000A, 600V

Electronic

Breaker	IC at 480VAC kA	Trip type	Adjustment	3 pole, 600VAC catalog number
T7H	65	PR231/P	LS/I	T7H1000BW
		PR232/P	LSI	T7H1000CW
		PR331/P	LSIG	T7H1000EW
		PR332/P	LI	T7H1000PW
		PR332/P	LSI	T7H1000RW
		PR332/P	LSIG	T7H1000SW

T7H, 1200A, 600V

Electronic

Breaker	IC at 480VAC kA	Trip type	Adjustment	3 pole, 600VAC catalog number
T7H	65	PR231/P	LS/I	T7H1200BW
		PR232/P	LSI	T7H1200CW
		PR331/P	LSIG	T7H1200EW
		PR332/P	LI	T7H1200PW
		PR332/P	LSI	T7H1200RW
		PR332/P	LSIG	T7H1200SW

T7

1000A, 1200A, 600V Δ
Electronic, 100% rated

T7S, 1000A, 600V

Electronic, 100% rated

Breaker	IC at 480VAC kA	Trip type	Adjustment	3 pole, 600VAC Catalog number
T7S	50	PR231/P	LS/I	T7SQ1000BW
		PR232/P	LSI	T7SQ1000CW
		PR331/P	LSIG	T7SQ1000EW
		PR332/P	LI	T7SQ1000PW
		PR332/P	LSI	T7SQ1000RW
		PR332/P	LSIG	T7SQ1000SW

T7L, 1000A, 600V

Electronic, 100% rated

Breaker	IC at 480VAC kA	Trip type	Adjustment	3 pole, 600VAC Catalog number
T7L	100	PR231/P	LS/I	T7LQ1000BW
		PR232/P	LSI	T7LQ1000CW
		PR331/P	LSIG	T7LQ1000EW
		PR332/P	LI	T7LQ1000PW
		PR332/P	LSI	T7LQ1000RW
		PR332/P	LSIG	T7LQ1000SW

T7S, 1200A, 600V

Electronic, 100% rated

Breaker	IC at 480VAC kA	Trip type	Adjustment	3 pole, 600VAC Catalog number
T7S	50	PR231/P	LS/I	T7SQ1200BW
		PR232/P	LSI	T7SQ1200CW
		PR331/P	LSIG	T7SQ1200EW
		PR332/P	LI	T7SQ1200PW
		PR332/P	LSI	T7SQ1200RW
		PR332/P	LSIG	T7SQ1200SW

T7L, 1200A, 600V

Electronic, 100% rated

Breaker	IC at 480VAC kA	Trip type	Adjustment	3 pole, 600VAC Catalog number
T7L	100	PR231/P	LS/I	T7LQ1200BW
		PR232/P	LSI	T7LQ1200CW
		PR331/P	LSIG	T7LQ1200EW
		PR332/P	LI	T7LQ1200PW
		PR332/P	LSI	T7LQ1200RW
		PR332/P	LSIG	T7LQ1200SW

NOTE: See pages 17.71 - 17.83 for electrical/mechanical accessories.

T7H, 1000A, 600V

Electronic, 100% rated

Breaker	IC at 480VAC kA	Trip type	Adjustment	3 pole, 600VAC Catalog number
T7H	65	PR231/P	LS/I	T7HQ1000BW
		PR232/P	LSI	T7HQ1000CW
		PR331/P	LSIG	T7HQ1000EW
		PR332/P	LI	T7HQ1000PW
		PR332/P	LSI	T7HQ1000RW
		PR332/P	LSIG	T7HQ1000SW

T7H, 1200A, 600V

Electronic, 100% rated

Breaker	IC at 480VAC kA	Trip type	Adjustment	3 pole, 600VAC Catalog number
T7H	65	PR231/P	LS/I	T7HQ1200BW
		PR232/P	LSI	T7HQ1200CW
		PR331/P	LSIG	T7HQ1200EW
		PR332/P	LI	T7HQ1200PW
		PR332/P	LSI	T7HQ1200RW
		PR332/P	LSIG	T7HQ1200SW

T7

1200A, 600V Δ

Electronic/Molded case switch

T7

1200A, 600V

Molded case switch

Breaker	IC at 480VAC kA ①	Amp	Magnetic trip	3 pole, 600VAC Catalog number
T7H	-	1200	20,000	T7H1200DW

NOTE: See pages 17.67 - 17.79 for electrical/mechanical accessories.

T7

1000 - 1200A, 600V

Motor circuit protection

Electronic trip, instantaneous only

Breaker	IC at 480VAC kA ①	Amp	Catalog number
T7S	50	1000	T7S1000E5W
T7H	65	1000	T7H1000E5W
T7L	100	1000	T7L1000E5W
T7S	50	1200	T7S1200E5W
T7H	65	1200	T7H1200E5W
T7L	100	1200	T7L1200E5W

NOTE: See pages 17.71 - 17.83 for electrical/mechanical accessories.

Technical data T7/T7M

Shunt tips, closing coil,
Undervoltage & spring charging motor

Standard shunt trip

Inrush Power Consumption	T7/T7M	
	AC (VA)	DC (W)
Voltage		
24 VAC/DC	300	300
30 VAC/DC	300	300
48 VAC/DC	300	300
60 VAC/DC	300	300
110...120 VAC/DC	300	300
120...127 VAC/DC	300	300
220...240 VAC/DC	300	300
240...240 VAC/DC	300	300
380...400 VAC	300	—
415...440 VAC	300	—
Opening time (ms)	20	20

Undervoltage

Inrush Power Consumption	T7/T7M	
	AC (VA)	DC (W)
Voltage		
24 VAC/DC	3.5	3.5
30 VAC/DC	3.5	3.5
110...120 VAC/DC	3.5	3.5
120...127 VAC/DC	3.5	3.5
220...240 VAC	3.5	3.5
240...250 VAC/DC	3.5	3.5
380...400 VAC	3.5	—
415...440 VAC	3.5	—
Opening time (ms)	≤ 25	≤ 25

Closing coil

Inrush Power Consumption	T7M	
	AC (VA)	DC (W)
Voltage		
24 VAC/DC	300	300
30 VAC/DC	300	300
48 VAC/DC	300	300
60 VAC/DC	300	300
110...120 VAC/DC	300	300
120...127 VAC/DC	300	300
220...240 VAC/DC	300	300
240...240 VAC/DC	300	300
380...400 VAC	300	—
415...440 VAC	300	—
Opening time (ms)	20	20

Spring charging motor

Power Consumption	T7M	
	AC (VA)	DC (W)
Voltage		
24...30 VAC/DC	≤ 100	≤ 100
48...60 VAC/DC	≤ 100	≤ 100
100...130 VAC/DC	≤ 100	≤ 100
220...250 VAC/DC	≤ 100	≤ 100
380...415 VAC	≤ 100	—
Opening voltage (% Un)	85-110	85-110
Charging time (s)	8-10	8-10