

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

Voltage	N	H	L
225AF, 175A-225A			
240 VAC	65	100	150
480 VAC	25	50	65
600 VAC	–	–	–
500 VDC	20	35	50
600 VDC	–	–	–

Voltage	N	H	L
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

① 15-30A are 65kA at 480VAC

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150A 600VAC/225A 480VAC

Thermal Magnetic Trip Units

Breaker	IC at 480VAC kA	Rating	Magnetic trip	2 pole, 600VAC/500VDC catalog number	List price	3 pole, 600VAC/DC catalog number	List price	
Ts3N	25	15A	500A	Ts3N015TW-2	\$ 814	Ts3N015TW	\$ 958	
		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	948	Ts3N070TW	1,115
		80A	800A	Ts3N080TW-2	Ts3N080TW			
		90A	900A	Ts3N090TW-2	Ts3N090TW			
		100A	1000A	Ts3N100TW-2	Ts3N100TW			
		125A	1250A	Ts3N125TW-2	Ts3N125TW	1,471	Ts3N125TW	1,610
		150A	1500A	Ts3N150TW-2	Ts3N150TW			

Breaker	IC at 480VAC kA	Rating	Magnetic trip	2 pole, 600VAC/500VDC catalog number	List price	3 pole, 600VAC/DC catalog number	List price	
Ts3H	50	15A	500A	Ts3H015TW-2	\$ 939	Ts3H015TW	\$ 1,105	
		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	1,071	Ts3H070TW	1,260
		80A	800A	Ts3H080TW-2	Ts3H080TW			
		90A	900A	Ts3H090TW-2	Ts3H090TW			
		100A	1000A	Ts3H100TW-2	Ts3H100TW			
		125A	1250A	Ts3H125TW-2	Ts3H125TW	2,323	Ts3H125TW	2,733
		150A	1500A	Ts3H150TW-2	Ts3H150TW			

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Breaker	IC at 480VAC kA	Rating	Magnetic trip	2 pole, 600VAC/500VDC catalog number	List price	3 pole, 600VAC/DC catalog number	List price
Ts3L	65	15A	500A	Ts3L015TW-2	\$ 1,518	Ts3L015TW	\$ 1,786
		20A	500A	Ts3L020TW-2		Ts3L020TW	
		25A	500A	Ts3L025TW-2		Ts3L025TW	
		30A	500A	Ts3L030TW-2		Ts3L030TW	
		35A	500A	Ts3L035TW-2		Ts3L035TW	
	85	40A	500A	Ts3L040TW-2	1,518	Ts3L040TW	1,786
		50A	500A	Ts3L050TW-2		Ts3L050TW	
		60A	600A	Ts3L060TW-2		Ts3L060TW	
		70A	700A	Ts3L070TW-2		Ts3L070TW	
		80A	800A	Ts3L080TW-2	1,692	Ts3L080TW	1,990
		90A	900A	Ts3L090TW-2		Ts3L090TW	
		100A	1000A	Ts3L100TW-2		Ts3L100TW	
		125A	1250A	Ts3L125TW-2	3,636	Ts3L125TW	4,278
		150A	1500A	Ts3L150TW-2		Ts3L150TW	

NOTE: See pages 16.57 - 16.70 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	List price
Ts3NQ	25	15A	500A	Ts3NQ015TW	\$ 1,054
		20A	500A	Ts3NQ020TW	
		25A	500A	Ts3NQ025TW	
		30A	500A	Ts3NQ030TW	
		35A	500A	Ts3NQ035TW	
		40A	500A	Ts3NQ040TW	
		50A	500A	Ts3NQ050TW	1,227
		60A	600A	Ts3NQ060TW	
		70A	700A	Ts3NQ070TW	
		80A	800A	Ts3NQ080TW	1,771
		90A	900A	Ts3NQ090TW	
		100A	1000A	Ts3NQ100TW	
		125A	1250A	Ts3NQ125TW	1,771
150A	1500A	Ts3NQ150TW			

Breaker	IC at 480VAC	Rating	Magnetic trip	3 pole catalog number	List price
Ts3HQ	50kA	15A	500A	Ts3HQ015TW	\$ 1,216
		20A	500A	Ts3HQ020TW	
		25A	500A	Ts3HQ025TW	
		30A	500A	Ts3HQ030TW	
		35A	500A	Ts3HQ035TW	
		40A	500A	Ts3HQ040TW	
		50A	500A	Ts3HQ050TW	1,386
		60A	600A	Ts3HQ060TW	
		70A	700A	Ts3HQ070TW	
		80A	800A	Ts3HQ080TW	3,006
		90A	900A	Ts3HQ090TW	
		100A	1000A	Ts3HQ100TW	
		125A	1250A	Ts3HQ125TW	3,006
150A	1500A	Ts3HQ150TW			

Breaker	IC at 480VAC	Rating	Magnetic trip	3 pole catalog number	List price
Ts3LQ	65kA	15A	500A	Ts3LQ015TW	\$ 1,965
		20A	500A	Ts3LQ020TW	
		25A	500A	Ts3LQ025TW	
		30A	500A	Ts3LQ030TW	
		35A	500A	Ts3LQ035TW	
		40A	500A	Ts3LQ040TW	
	85kA	50A	500A	Ts3LQ050TW	2,189
		60A	600A	Ts3LQ060TW	
		70A	700A	Ts3LQ070TW	
		80A	800A	Ts3LQ080TW	4,706
		90A	900A	Ts3LQ090TW	
		100A	1000A	Ts3LQ100TW	
		125A	1250A	Ts3LQ125TW	4,706
150A	1500A	Ts3LQ150TW			

NOTE: See pages 16.57 - 16.70 for electrical/mechanical accessories.

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	List Price
Ts3L	25	Magnetic only	3	12-36	Ts3L003MW	\$ 726
	25	Magnetic only	5	20-60	Ts3L005MW	726
	25	Magnetic only	10	40-120	Ts3L010MW	726
	25	Magnetic only	25	100-300	Ts3L025MW	726
	85	Magnetic only	50	200-600	Ts3L050MW	920
Ts3L	85	Magnetic only	100	400-1200	Ts3L100MW	1,095
	85	Magnetic only	125	500-1500	Ts3L125MW	1,448
	85	Magnetic only	150	600-1500	Ts3L150MW	1,448
	65	Magnetic only	175 ①	700-2100	Ts3L175MW	1,448
	65	Magnetic only	200 ①	800-2400	Ts3L200MW	1,517

Molded Case Switch ②

Type	IC at 480V (2)	Magnetic trip	Amps	3 pole 600V catalog number	List price
Ts3H	50	1500	150	Ts3H150DW	\$ 1,060
	50	2250	225 ①	Ts3H225DW	1,188

NOTE: See pages 16.57 - 16.70 for electrical/mechanical accessories.