

Molded Case Circuit Breakers

Industrial Circuit Breakers

Section 3

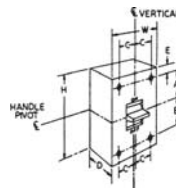
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Quick Reference Guide

10-1200A Circuit Breakers

Thermal Magnetic Trip

Ratings do not apply to molded case switches. The interruption ratings and voltages shown in the table are maximum ratings. A circuit breaker of the type given in the left-hand column may be applied at the given circuit voltage in any electrical distribution system where the available fault current at the load terminals of the breaker does not exceed the value in the table. That circuit breaker type may also be applied at intermediate values of circuit voltage provided the available fault current at the load terminals of the breaker does not exceed the value in the table for the higher value of voltage.



TJJ, TJK, THJK TFJ, TFK, THFK

TEY and TEYF (UL File E-11592; Fixed Thermal Magnetic Trip Unit; CSA LR 57114)

Circuit Breaker Type	Ampere Rating	No. Poles	Maximum Voltage Rating		UL Listed Interrupting Ratings— kA										Dimensions (In.)							Approx. Ship Wt./Std. Pack
					Vac					Vdc												
			ac	dc	120	120/240	240	277	480	600	125	250	500 ¹	H	W	D	A	B	C	E		
TEY ²	15-100	1	277	125	65	—	14	14	—	—	10	—	—	5 1/4	1	3 1/16	—	—	—	—	—	
		2	480/277	250	—		65	14	14 ⁵		—	—	10		—							2
		3	—	—	—		—	—	—		—	—	—		3							
TEYF ²	15-100	1	277	125	65	—	14	14	—	—	10	—	—	5 1/4	1	3 1/16	—	—	—	—	—	
		2	480/277	250	—		65	14	14 ⁵		—	—	10		—							2
		3	—	—	—		—	—	—		—	—	—		3							

E150 (UL File E-11592; Fixed Thermal Magnetic Trip Unit; CSA LR 57114)

TEB ²	10-100 ³	1	120	125	10	—	—	—	—	—	5	—	—	6 5/16	1 3/8	3 3/8	2 41/64	2 15/64	—	23/32	26 lb/24
		2	240	250	10		—				5	—	2 3/4		24 lb/12						
		3	—	—			—				—	4 1/8	28 lb/8								
TED ²	10-100 ³	1	277,347 ⁴	125	—	—	—	14	10	—	10	—	—	6 5/16	1 3/8	3 3/8	2 41/64	2 15/64	—	23/32	26 lb/24
	10-150 ³	2	480	250			18	—	18	—	—	10	—		2 3/4						24 lb/12
		3	480, 600	500						14	—	10	4 1/8		28 lb/8						
THED ²	15-30	1	277,347 ⁴	125	—	—	—	65	—	—	20 ⁶	—	—	6 5/16	1 3/8	3 3/8	2 41/64	2 15/64	—	23/32	26 lb/24
	15-100	2	480	250			65	25	—	—	20 ⁶	—	4 1/8		24 lb/12						
		65	—	18			—		10	28 lb/8											
	15-150	3	600	500			42	—	—	10	28 lb/8										

F225 (UL File E-11592; TFJ, Fixed Thermal Magnetic Trip Unit; TFK, THFK: Interchangeable Thermal Mag. Trip Unit; CSA LR 40350)

TFJ ²	70-225	2	480	250	—	—	25	—	22	—	10	—	10 1/8	4 1/8	3 13/16	3 7/8	3 7/8	11/16	1 3/16	10 lb/1
	70-250	3	600	500	—	—	—	—	—	18	—	10								12 lb/1
TFK ²	70-225	2	480	250	—	—	25	—	22	—	10	—	10 1/8	4 1/8	3 13/16	3 7/8	3 7/8	11/16	1 3/16	10 lb/1
	70-250	3	600	500	—	—	—	—	—	18	—	10								12 lb/1
THFK ²	70-225	2	480	250	—	—	65	—	25	—	10	—	10 1/8	4 1/8	3 13/16	3 7/8	3 7/8	11/16	1 3/16	10 lb/1
	70-250	3	600	500	—	—	—	—	—	18	—	10								12 lb/1
TFL ⁷	70-225	3	600	—	—	100	100	—	65	25	—	—	10 1/8	4 1/8	3 13/16	3 7/8	3 7/8	11/16	1 3/16	—

J600 (UL File E-11592; TJJ, Fixed Thermal Magnetic Trip Unit; TJK, THJK: Interchangeable Thermal Mag. Trip Unit; CSA LR 40350)

TJJ, TJK4	125-400	2	250	—	—	42	—	30	22	—	10	—	10 1/8	8 1/4	3 13/16	3 15/16	3 13/16	1 3/8	1 3/16	16 lb/1
		3	500	—	—	—	—	—	—	—	20	—								17 1/2 lb/1
TJK6	250-600	2	250	—	—	42	—	30	22	—	10	—	10 1/8	8 1/4	3 13/16	3 15/16	3 13/16	1 3/8	1 3/16	18 lb/1
		3	500	—	—	—	—	—	—	—	20	—								20 lb/1
THJK4	125-400	2	250	—	—	65	—	35	25	—	40	—	10 1/8	8 1/4	3 13/16	3 15/16	3 13/16	1 3/8	1 3/16	16 lb/1
		3	—	—	—	—	—	—	—	—	40	20								17 1/2 lb/1
THJK6	250-600	2	250	—	—	65	—	35	25	—	40	—	10 1/8	8 1/4	3 13/16	3 15/16	3 13/16	1 3/8	1 3/16	18 lb/1
		3	—	—	—	—	—	—	—	—	40	20								20 lb/1

K1200 (UL File E-11592; Interchangeable Thermal Magnetic Trip Unit; CSA LR 40350)

TKM8	300-800	2	250	—	—	42	—	30	22	—	10	—	15 1/2	8 1/4	5 1/2	8 9/16	5 11/16	1 3/8	5/8	33 lb/1
		3	500	—	—	—	—	—	—	—	20	22								39 lb/1
TKM12	600-1200	2	—	—	—	42	—	30	22	—	—	—	15 1/2	8 1/4	5 1/2	8 9/16	5 11/16	1 3/8	5/8	38 lb/1
		3	—	—	—	—	—	—	—	—	—	—								41 1/2 lb/1
THKM8	300-800	2	250	—	—	65	—	35	25	—	40	—	15 1/2	8 1/4	5 1/2	8 9/16	5 11/16	1 3/8	5/8	33 lb/1
		3	—	—	—	—	—	—	—	—	40	22								39 lb/1
THKM12	600-1200	2	—	—	—	65	—	35	25	—	—	—	15 1/2	8 1/4	5 1/2	8 9/16	5 11/16	1 3/8	5/8	38 lb/1
		3	—	—	—	—	—	—	—	—	—	—								41 1/2 lb/1

¹ UL listed with poles in series for 500 Vdc ungrounded battery applications.

² UL listed as HACR (heating, air conditioning, and refrigeration).

³ 10 amp not UL listed.

⁴ UL listed/CSA Certified for 10kA @ 347 Vac (TED) and 18kA @ 347V (THED). Also rated 10kA @ 480V but not UL listed.

⁵ 480Y/277 Vac.

⁶ UL listed at 10,000 amps

⁷ No longer available



Molded Case Circuit Breakers

Industrial Circuit Breakers

15-150A Circuit Breakers

Thermal-Magnetic Trip

E150 Line Circuit Breakers

Types TEB, TED, THED

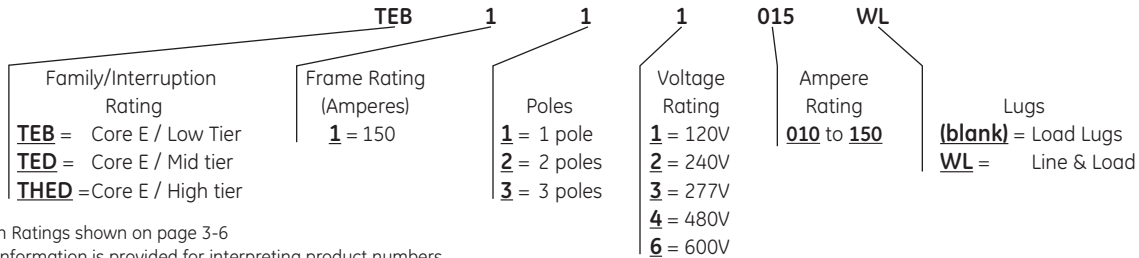
Noninterchangeable Trip

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Section 3



Product Number Structure



Interruption Ratings shown on page 3-6

Note: This information is provided for interpreting product numbers (it should not be used to build product numbers).

Single Pole — Includes Cu/Al load lugs only. If line lugs are required, add suffix "WL" to Product Number.

Ampere Rating	Type TEB			Type TED			Type THED			
	120 Vac 125 Vdc			277 Vac 125 Vdc			277 Vac		347 Vac ¹	
	Product Number	List Price GO-135B		Product Number	List Price GO-135B		Product Number	List Price GO-135B	Product Number	List Price GO-135B
10	TEB111010 ²	\$78.50		TED113010 ²	\$82.50					
15	TEB111015 ³	\$78.50		TED113015 ³	\$82.50		THED113015	\$229.00	THED114015 ³	\$416.00
20	TEB111020 ³	\$78.50		TED113020 ³	\$82.50		THED113020	\$229.00	THED114020 ³	\$416.00
25	TEB111025	\$78.50		TED113025	\$82.50		THED113025	\$229.00	THED114025	\$416.00
30	TEB111030	\$78.50		TED113030	\$82.50		THED113030	\$229.00	THED114030	\$416.00
35	TEB111035	\$78.50		TED113035	\$82.50		—	—	—	—
40	TEB111040	\$78.50		TED113040	\$82.50		—	—	—	—
45	TEB111045	\$78.50		TED113045	\$82.50		—	—	—	—
50	TEB111050	\$78.50		TED113050	\$82.50		—	—	—	—
60	TEB111060	\$78.50		TED113060	\$82.50		—	—	—	—
70	TEB111070	\$134.00		TED113070	\$159.00		—	—	—	—
80	TEB111080	\$134.00		TED113080	\$159.00		—	—	—	—
90	TEB111090	\$134.00		TED113090	\$159.00		—	—	—	—
100	TEB111100	\$134.00		TED113100	\$159.00		—	—	—	—

Two Pole — Includes Cu/Al line and load lugs. For optional lugs, see page 3-105 and 3-106.

Ampere Rating	Type TEB			Type TED			Type THED, Hi-Break ⁴		
	240 Vac, 250 Vdc			480 Vac, 250 Vdc			480 Vac, 250 Vdc		
	Product Number	List Price GO-135B		Product Number	List Price GO-135B		Product Number	List Price GO-135B	
10	TEB122010WL ²	\$159.00		TED124010WL ²	\$290.00		—	—	
15	TEB122015WL	\$159.00		TED124015WL	\$290.00		THED124015WL	\$560.00	
20	TEB122020WL	\$159.00		TED124020WL	\$290.00		THED124020WL	\$560.00	
25	TEB122025WL	\$159.00		TED124025WL	\$290.00		THED124025WL	\$560.00	
30	TEB122030WL	\$159.00		TED124030WL	\$290.00		THED124030WL	\$560.00	
35	TEB122035WL	\$159.00		TED124035WL	\$290.00		THED124035WL	\$560.00	
40	TEB122040WL	\$159.00		TED124040WL	\$290.00		THED124040WL	\$560.00	
45	TEB122045WL	\$159.00		TED124045WL	\$290.00		THED124045WL	\$560.00	
50	TEB122050WL	\$159.00		TED124050WL	\$290.00		THED124050WL	\$560.00	
60	TEB122060WL	\$159.00		TED124060WL	\$290.00		THED124060WL	\$560.00	
70	TEB122070WL	\$261.00		TED124070WL	\$377.00		THED124070WL	\$653.00	
80	TEB122080WL	\$261.00		TED124080WL	\$377.00		THED124080WL	\$653.00	
90	TEB122090WL	\$261.00		TED124090WL	\$377.00		THED124090WL	\$653.00	
100	TEB122100WL	\$261.00		TED124100WL	\$377.00		THED124100WL	\$653.00	
110	—	—		TED124110WL	\$1000.00		—	—	
125	—	—		TED124125WL	\$1000.00		—	—	
150	—	—		TED124150WL	\$1000.00		—	—	

¹Suitable for 10 kAIC at 480 Vac, but not labeled or UL listed.

²Not UL listed

³Single-pole, 15- and 20-ampere breakers are also UL listed as switching duty breakers, suitable for switching 120 Vac (TEB), 277, 347 Vac (TED, THED) fluorescent lighting loads.

⁴Two-pole breaker is furnished in three-pole case.

Notes: All TEB, TED, THED breakers UL listed as HACR type except 10 ampere.

All TEB, TED, THED breakers suitable for reverse feed.

60/75°C rating through 100 amperes, 75°C rating above 100 amperes.



Publications and Reference: See Section 22 for a complete list of additional product-related publications

Molded Case Circuit Breakers

Industrial Circuit Breakers

15-150A Circuit Breakers
Thermal-Magnetic Trip
E150 Line Circuit Breakers
Types TEB, TED, THED
Noninterchangeable Trip

Section 3

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Three Pole — Includes Cu/Al line and load lugs. For optional lugs, see page 3-105 and 3-106.

Ampere Rating	Type TEB		Type TED				Type THED, Hi-Break	
	240 Vac		480 Vac		600 Vac		600 Vac	
	Product Number	List Price GO-135B	Product Number	List Price GO-135B	Product Number	List Price GO-135B	Product Number	List Price GO-135B
10	TEB132010WL ¹	\$240.00	TED134010WL ¹	\$377.00	TED136010WL ¹	\$439.00	—	—
15	TEB132015WL	\$240.00	TED134015WL	\$377.00	TED136015WL	\$439.00	THED136015WL	\$655.00
20	TEB132020WL	\$240.00	TED134020WL	\$377.00	TED136020WL	\$439.00	THED136020WL	\$655.00
25	TEB132025WL	\$240.00	TED134025WL	\$377.00	TED136025WL	\$439.00	THED136025WL	\$655.00
30	TEB132030WL	\$240.00	TED134030WL	\$377.00	TED136030WL	\$439.00	THED136030WL	\$655.00
35	TEB132035WL	\$240.00	TED134035WL	\$377.00	TED136035WL	\$439.00	THED136035WL	\$655.00
40	TEB132040WL	\$240.00	TED134040WL	\$377.00	TED136040WL	\$439.00	THED136040WL	\$655.00
45	TEB132045WL	\$240.00	TED134045WL	\$377.00	TED136045WL	\$439.00	THED136045WL	\$655.00
50	TEB132050WL	\$240.00	TED134050WL	\$377.00	TED136050WL	\$439.00	THED136050WL	\$655.00
60	TEB132060WL	\$240.00	TED134060WL	\$377.00	TED136060WL	\$439.00	—	—
70	TEB132070WL	\$339.00	TED134070WL	\$445.00	TED136070WL	\$534.00	THED136070WL	\$742.00
80	TEB132080WL	\$339.00	TED134080WL	\$445.00	TED136080WL	\$534.00	—	—
90	TEB132090WL	\$339.00	TED134090WL	\$445.00	TED136090WL	\$534.00	THED136090WL	\$742.00
100	TEB132100WL	\$339.00	TED134100WL	\$445.00	TED136100WL	\$534.00	THED136100WL	\$742.00
110	—	—	TED134110WL	\$1198.00	TED136110WL	\$1198.00	THED136110WL	\$1683.00
125	—	—	TED134125WL	\$1198.00	TED136125WL	\$1198.00	THED136125WL	\$1683.00
150	—	—	TED134150WL	\$1198.00	TED136150WL	\$1198.00	THED136150WL	\$1683.00
100NA	—	—	TED134YT100 ²	\$377.00	TED136YT100 ²	\$445.00	—	—
150NA	—	—	TED134YT150 ²	\$967.00	TED136YT150 ²	\$967.00	—	—

¹Not UL listed.

²Includes factory-installed dummy trip.

Notes: All TEB, TED, THED breakers UL listed as HACR type except 10 ampere.
All TEB, TED, THED breakers suitable for reverse feed.
60/75°C rating through 100 amperes, 75°C rating above 100 amperes.

Accessories: See pages 3-39 to 3-45 and 3-96 to 3-108.

Add-on Current Limiter 100 kAIC³

Ampere Rating	Product Number	List Price GO-135B
15	TEDL36015	\$848.00
20	TEDL36020	\$848.00
30	TEDL36030	\$848.00
60	TEDL36060	\$848.00
100	TEDL36100	\$848.00

³For use with 3 Pole TED/THED only

E150 Reference Publications

TDR Operating Mechanism	GEH-2994
Shunt Trip	GEH-3416
Undervoltage Release	GEH-3417
Auxiliary Switch	GEH-3418
Three Coil Shunt Trip	GEH-3434
Mechanical Interlock	GEH-4310
TDM Operating Mechanism	GEH-4335
Bell Alarm	GEH-4576
Plug-in Mounting Base	GEH-4610
STDA Flange Handle	GEH-5314
STDA Operating Mechanism	GEH-5684
Cable Operator Mechanism	GEH-6290
Motor Operator	GEH-6500
Back Connected Studs	GEJ-3609
Padlocking Device - Standard	GEJ-5143
E150 Outline Drawing	139C3643SH1, 2, 4

