

How to Order

Q-Line

- Thermal Magnetic Circuit Breakers
- Molded-Case Switches

The product number as shown in the following pages includes the complete breaker or switch. TQD and TJD breakers are complete with Cu/Al line and load lugs.

E 150 Line

- Thermal Magnetic Circuit Breakers
- Magnetic Circuit Breakers
- Molded Case Switches

The product numbers as shown in the following pages include the complete breaker or switch. All devices listed come with Cu/Al line and load lugs. If line lugs are not required on a breaker, eliminate "WL" from product number; for molded case switches see page 6-3. Unless otherwise noted, all circuit breakers are UL listed in File E-11592. Molded case switches are UL listed in File E-57546.

J 600 Line

- Thermal Magnetic Circuit Breakers
- Magnetic Circuit Breakers
- Molded Case Switches

These breakers are available with either noninterchangeable trip (designated Type TJJ) or interchangeable trip (designated Type TJK and THJK). Type TJJ product numbers include frame, trip, Cu/Al line, and load lugs factory assembled. If line lugs are not required on the breaker, eliminate "WL" from product number, and subtract price of line lugs from price of complete breaker.

TJK breakers are available in two frames, 400 ampere frame (125 to 400 amperes) and 600 ampere frame (250 to 600 amperes). Trip units are not interchangeable between frames.

"Complete Circuit Breaker" price includes frame, trip unit, Cu/Al line, and load lugs. Unit will be shipped unassembled unless order specifies "must be factory assembled." If line lugs are not required, eliminate "WL" from product number and subtract price of line lugs from price of complete breaker.

To order the frame, trip, and lugs separately, select the required components from table. Magnetic breakers must be ordered as components. A complete breaker consists of frame, trip, and one line and one load lug per pole.

Price of ordering "Complete Circuit Breaker" vs. frame, trip, and line and load lugs separately is the same.

Molded case switches can also be ordered as complete units (designated Type TJK---Y) or as separate components. They are UL listed only as complete units. To indicate required lugs, see page 6-3.

Unless otherwise noted, all circuit breakers are UL listed in File E-11592. Molded case switches are UL listed in File E-57546.



Q-Line Thermal Magnetic Circuit Breakers
and Molded-Case Switches

Spectra™ RMS

—Circuit Breakers

Determine the required breaker frame, IC rating, and load requirements. Select frame, trip unit (rating plug), and lug, if required, product numbers from the tables on pages 6-44 to 6-52. For Spectra™ breakers with *microEntelliGuard™* Trip Units refer to pages 6-53 through 6-60. Select field-mounted internal accessory product numbers, if required, on pages 6-66 and 6-67. Select field-mounted external accessory product numbers, if required, on pages 6-94 through 6-105 and pages 6-61 to 6-65 for Spectra™ breakers with *microEntelliGuard™* Trip Units. Order as separate items.

—Mag-Break Motor Circuit Protectors

Determine the required frame and ampere requirements. Select frame, trip unit (rating plug), and lug, if required, product numbers from the table on pages 6-90 through 6-91. Select accessories as noted above for circuit breakers. The same accessories are used with both circuit breakers and motor circuit protectors. Order as separate items.

—Molded Case Switches

Determine the required frame and ampere requirements. Select frame and lug, if required, product numbers from the table on page 6-89. Rating plugs are not used. Select accessories as noted above for circuit breakers. Internal accessories do not require dummy trips. The same accessories are used with both circuit breakers and molded case switches. Order as separate items.

Unless otherwise noted, all circuit breakers are UL listed in File E-11592. Molded case switches are UL listed in File E-57546. Field-Installable Internal Accessories are UL listed in File E-57253. Distribution Cable Accessories for *microEntelliGuard™* Trip Units are UL listed in File E-57253.

Accessories

Order accessories from the appropriate table:

- Thermal Magnetic Circuit Breakers, Magnetic Circuit Breakers, and Molded Case Switches¹—pages 6-38 to 6-43 and 6-93 to 6-105.
- Spectra™ RMS Breakers—pages 6-65 to 6-66 and 6-93 to 6-105.
- Spectra™ RMS Breakers with *microEntelliGuard™* Trip Units—pages 6-61 to 6-67, and 6-93 to 6-105.

¹Installation of accessories in molded case switches requires dummy trip; see page 6-43 for information. Dummy trip not required for Tri-Break™ or Q-Line molded case switches.



Spectra Circuit Breakers
and Molded Case Switches

Molded Case Circuit Breaker and Switch Terminal Configuration Code

Order standard Cu/Al lugs by using suffix codes presented. Order lugs separately if special lugs are required. For optional lugs, see pages 6-102 and 6-103.

Breaker/Switch Type	Suffix				
	Blank	WL	XL	X2	LL
TQD/TJD	Load Lugs Only	Line and Load Lugs	—	Line Lugs Only	No Lugs
Molded Case Breakers, Thermal Magnetic	Load Lugs Only	Line and Load Lugs	—	Load Lugs Only	No Lugs
Molded Case Switch	Line and Load Lugs	—	No Lugs	Line Lugs Only	Load Lugs Only
Spectra RMS™ Breakers	No Lugs			Order Lugs Separately	

Molded Case Circuit Breakers

Industrial Circuit Breakers

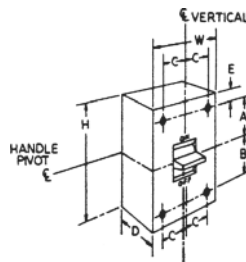
Quick Reference Guide
10-1200A Circuit Breakers
Thermal Magnetic Trip

Section 6

Ratings do not apply to molded case switches.

Maximum interruption ratings and voltages shown. 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.



TEYD, TEYH, TEYL

TEY and TEYF (UL/cUL File E-11592; TEYD/H/L (UL/cUL File E-11592)

Circuit Breaker Type	Ampere Rating	No. Poles	Maximum Voltage Rating		UL Listed Interrupting Rating—kA										Dimensions (in)							Approx. Ship Wt./Std. Pack
					Vac						Vdc											
			ac	dc	120	120/240	240	277	480/277	480	600	125	250	500	H	W	D	A	B	C	E	
TEV ^{2,3}	15-100	1	277	125	65	—	14	14	—	—	—	10	—	—	5 1/4	1	3 1/16	—	—	—	—	—
		2	480/277	250	65		14	14	—	—		10	—	2								
		3	—	—	—		—	—	—	—		—	3									
TEVF ^{2,3}	15-60	1	277	125	65	—	18	18	—	—	—	10	—	—	5 1/4	1	3 1/16	—	—	—	—	—
	2	480/277	250	65	18		18	—	—	10		—	2									
	3	—	—	—	—		—	—	—	—		—	3									
TEYD	15-70	1	277	—	65	65	—	25	—	—	—	—	—	—	5 1/4	1	3 1/16	—	—	—	—	1 lb
	2	480/277	—	—	65	65	—	25	—	—	—	—	—	2		2 lb						
	3	—	—	—	—	—	—	—	—	—	—	—	—	3		2.7 lb						
TEYH	15-70	1	277	—	65	65	—	35	—	—	—	—	—	—	5 1/4	1	3 1/16	—	—	—	—	1 lb
	2	480/277	—	—	65	65	—	35	—	—	—	—	—	2		2 lb						
	3	—	—	—	—	—	—	—	—	—	—	—	—	3		2.7 lb						
TEYL	15-70	1	277	125	100	100	—	65	—	—	—	15	—	—	5 1/4	1	3 1/16	—	—	—	—	1 lb
	2	480/277	250	—	100	100	—	65	—	—	42	20	—	2		2 lb						
	3	—	—	—	—	—	—	—	—	—	42	35	—	3		2.7 lb						

E150 (UL/cUL File E-11592)

TEB ^{2,3}	10-100 ⁴	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		—			10						—	—		—				4 1/8		28 lb/8			
TED ^{2,3}	10-100 ⁴	1	277, 347 ⁵	125	—	—	—	14	—	10	—	10	—	—	6 5/16	1 3/8	3 3/8	2 41/64	2 15/64	—	23/32	26 lb/24			
		2	480	250			18	—	—	18	—	—	10	—		2 3/4						24 lb/12			
	10-150 ⁴	3 ⁷	480, 600	500	14	—	10	10 ¹	4 1/8	28 lb/8															
THED ^{2,3}	15-30	1	277, 347 ⁵	125	—	—	—	65	—	—	—	10 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	—	18	—	10 ⁶	—	4 1/8		24 lb/12									
	20-100	3 ⁷	600	500			65		—		—	—	—	—		—									
	110-150						42		—		—	—	—	10		10 ¹				—					

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

TJJ, TJK4	200-400	2	600	250	—	—	42	—	—	30	22	—	20	—	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	20 ¹								17 1/2 lb/1
TJK6	250-600	2	600	250	—	—	42	—	—	30	22	—	20	—	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 ¹								20 lb/1
THJK4	200-400	2	600	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		500								—	40	20 ¹								17 1/2 lb/1
THJK6	250-600	2	600	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		500								—	40	20 ¹								20 lb/1

Mag-Break (UL Files E-11592, E-66390; Magnetic Trip Unit)⁸

TJC	400-600	3	600	—	—	—	42	—	—	30	22	—	—	—	10 1/8	8 1/4	3 13/16	3 13/16	3 13/16	1 3/8	1 3/16	16 lb/1
																						17 1/2 lb/1

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

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

³15-50A UL listed as HID (high intensity discharge).

⁴10 amp not UL listed, rated 5kA @ 120V, 240V and 480V

⁵UL/cUL listed for 10kA @ 347 Vac (TED) and 18kA @ 347V (THED).

Rated 10kA @ 480V but not UL listed.

⁶UL listed 10kA, GE tested to 20kA.

⁷TED, 3P, 600V, 15A breaker is obsolete. (TED136015WL & THED136015WL)

⁸Per UL 489, interrupting capacities are not shown on product label.

Molded Case Circuit Breakers

Industrial Circuit Breakers

Section 6

15-100A

Thermal Magnetic Trip

Type TEY/TEYF

Noninterchangeable Trip

Bolt-on

480Y/277V Class

TEY and TEYF breakers are one-inch wide per pole, compact, bolt-on circuit breakers for use on grounded 480Y/277 Vac systems. Short circuit ratings at that voltage for TEY and TEYF are 14 and 18kA, respectively. TEYF also offers higher selectivity ratings with upstream devices (See DET-537 for details). The bolt-on mounting base (TEY3B) shown on page 6-101 makes TEY and TEYF suitable for various lug-lug applications.

TEY/TEYF (UL/cUL File E-11592)

Ampere Rating	Wire Range ¹	Product Number	Product Number
		Type TEY ^{3,4}	Type TEYF ^{3,4}
Single Pole - Includes Integral Cu/Al Load Lugs		14kA @ 277 Vac	18kA @ 277 Vac
15	#14-#10	TEY115 ²	TEYF115 ²
20	#14-#10	TEY120 ²	TEYF120 ²
25	#14-#10	TEY125	TEYF125
30	#14-#10	TEY130	TEYF130
35	#10-#4	TEY135	TEYF135
40	#10-#4	TEY140	TEYF140
45	#10-#4	TEY145	TEYF145
50	#10-#4	TEY150	TEYF150
60	#10-#4	TEY160	TEYF160
70	#4-1/0	TEY170	
80	#4-1/0	TEY180	
90	#4-1/0	TEY190	
100	#4-1/0	TEY1100	
Two-Pole - Includes Integral Cu/Al Load Lugs		14kA @ 480 / 277 Vac	18kA @ 480 / 277 Vac
		Type TEY ^{3,4}	Type TEYF ^{3,4}
15	#14-#10	TEY215	TEYF215
20	#14-#10	TEY220	TEYF220
25	#14-#10	TEY225	TEYF225
30	#14-#10	TEY230	TEYF230
35	#10-#4	TEY235	TEYF235
40	#10-#4	TEY240	TEYF240
45	#10-#4	TEY245	TEYF245
50	#10-#4	TEY250	TEYF250
60	#10-#4	TEY260	TEYF260
70	#4-1/0	TEY270	TEYF270
80	#4-1/0	TEY280	TEYF280
90	#4-1/0	TEY290	TEYF290
100	#4-1/0	TEY2100	TEYF2100
110	#4-2/0		TEYF2110B
125	#4-2/0		TEYF2125B
Three-Pole - Includes Integral Cu/Al Load Lugs		14kA @ 480 / 277 Vac	18kA @ 480 / 277 Vac
		Type TEY ^{3,4}	Type TEYF ^{3,4}
15	#14-#10	TEY315	TEYF315
20	#14-#10	TEY320	TEYF320
25	#14-#10	TEY325	TEYF325
30	#14-#10	TEY330	TEYF330
35	#10-#4	TEY335	TEYF335
40	#10-#4	TEY340	TEYF340
45	#10-#4	TEY345	TEYF345
50	#10-#4	TEY350	TEYF350
60	#10-#4	TEY360	TEYF360
70	#4-1/0	TEY370	TEYF370
80	#4-1/0	TEY380	TEYF380
90	#4-1/0	TEY390	TEYF390
100	#4-1/0	TEY3100	TEYF3100
110	#4-2/0		TEYF3110B
125	#4-2/0		TEYF3125B

¹Solid or stranded for 14-10 AWG.

²Single-pole, 15 and 20 ampere breakers are also UL listed as switching duty breakers, suitable for switching 120, 240, or 277 Vac.

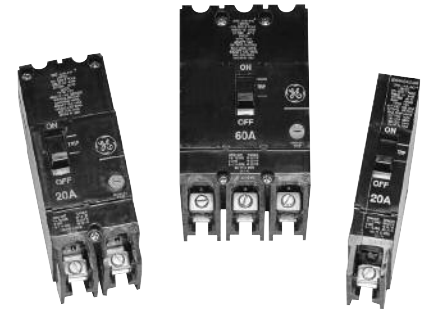
³UL listed HACR (Heating, Air Conditioning, Refrigeration).

⁴UL listed for HID (high intensity discharge), all 50A or less.

Internal Accessories for TEY/TEYF (2- and 3-pole breaker only) Factory Installed Only

Auxiliary Switch, Single-Pole (5A at 120, 240, 277 Vac, 1/4 hp at 120, 240 Vdc)	Add suffix to Breaker Product Number
"A" switch (normally open)	AS1A ⁵
"B" switch (normally closed)	AS1B ⁵
"AB" switch (both)	ASAB ⁵
Shunt Trip 120-277 Vac control voltage	ST12 ⁵

⁵Limited to one accessory per breaker.



1- 2- and 3-pole TEY/TEYF breakers