

Tri-Break® Line

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

These breakers are available in three types. Type TB1 (15-100 amperes) product numbers include frame, trip, line and load lugs, and current limiters all factory assembled. TB6 (300 to 600 amperes) and TB8 (600 to 800 amperes) include frame, trip and limiters, factory assembled, but do not include line or load lugs. If line and load lugs are required, order separately. Unless otherwise noted, TB1, TB6, and TB8 breaker components are UL listed in File E-42263. Fused molded case switches are UL listed in File E-57546.

Mag-Break Line

- Magnetic only circuit breakers (motor circuit protectors)

These breakers are available only with noninterchangeable adjustable magnetic trip, in frame Types E, F, J, K, and Tri-Break®. All breakers are shipped factory assembled, complete with Cu/Al line and load lugs.

All magnetic only circuit breakers and limiters are UL Component Recognized in Files E-11592 and E-66390, respectively, unless otherwise noted.

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 3-46 to 3-54. For Spectra® breakers with MicroVersaTrip® Plus or MicroVersaTrip® PM Trip Units refer to pages 3-57 through 3-65. Select field-mounted internal accessory product numbers, if required, on pages 3-70 and 3-71. Select field-mounted external accessory product numbers, if required, on pages 3-97 through 3-107 and pages 3-66 to 3-69 for Spectra® breakers with MicroVersaTrip® Plus or MicroVersaTrip® PM 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 3-73 through 3-75. 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 3-72. 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 MicroVersaTrip® Plus Trip Units and MicroVersaTrip® PM 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 3-39 to 3-45 and 3-97 to 3-107.
- Spectra® RMS Breakers—pages 3-70 to 3-71 and 3-97 to 3-107.
- Spectra® RMS Breakers with MicroVersaTrip® Plus Trip Units or MicroVersaTrip® PM Trip Units—pages 3-66 to 3-71, and 3-96 to 3-107.

¹Installation of accessories in molded case switches requires dummy trip; see page 3-45 for information. Dummy trip not required for Tri-Break® or Q-Line 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 3-101 and 3-102.

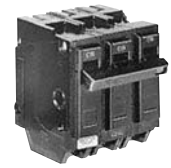
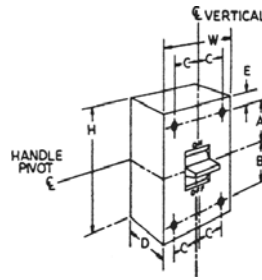
Breaker/Switch Type	Suffix				
	Blank	WL	XL	X2	LL
TQD/TJD	Load Lugs Only	Line and Load Lugs	—	Line Lugs Only	No Lugs
Molded Case Breakers, Thermal Magnetic	Load Lugs Only	Line and Load Lugs	—	Load Lugs Only	No Lugs
Molded Case Switch	Line and Load Lugs	—	No Lugs	Line Lugs Only	Load Lugs Only
Spectra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



Quick Reference Guide

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.



THQL 32015

Q-Line (UL file E-11592; Fixed Thermal Magnetic Trip Unit)

Circuit Breaker Type	Ampere Rating	No. Poles	Maximum Voltage Rating		UL Listed Interrupting Ratings—rms Symmetrical kA								Dimensions (in.)							Std. Pack	
					Vac						Vdc		H	W	D	A	B	C	E		
					120	120/240	240	277	480	600	125	250									
TQ	15-50	1	120/240	—	—	10	—	—	—	—	—	—	—	3	3/4	2 3/8	—	—	—	—	10
	15-60	2	120/240	—	—	10	—	—	—	—	—	—	—	3	1 1/2	2 3/8	—	—	—	—	5
THQP ¹	15-50	1	120/240	—	—	10	—	—	—	—	—	—	—	3 9/32	1/2	2 3/8	—	—	—	—	100
		2	120/240	—	—	10	—	—	—	—	—	—	—	3 9/32	1	2 3/8	—	—	—	—	50
TQL/TQB/ TQC	10	1	120/240	—	—	5 ²	—	—	—	—	—	—	—	3 9/32	1	2 3/8	—	—	—	—	50
		2	120/240	—	—	—	5 ²	—	—	—	—	—	—	3 9/32	2	2 3/8	—	—	—	—	25
		3	240	—	—	—	—	—	—	—	—	—	—	3	2 3/8	—	—	—	—	—	15
THQL ¹ THQB ¹ THQC ¹	15-70	1	120/240	—	—	10	—	—	—	—	—	—	—	3 9/32	1	2 3/8	—	—	—	—	50
	15-125	2	120/240	—	—	—	—	—	—	—	—	—	—	3 9/32	2	2 3/8	—	—	—	—	25
	15-100	3	240	—	—	—	10	—	—	—	—	—	—	3	2 3/8	—	—	—	—	—	15
THHQB ¹ THHQ ¹	15-70	1	120/240	—	—	22	—	—	—	—	—	—	—	3 9/32	1	2 3/8	—	—	—	—	50
	15-100	2	120/240	—	—	—	22	—	—	—	—	—	—	3 9/32	2	2 3/8	—	—	—	—	25
		3	240	—	—	—	—	22	—	—	—	—	—	3	2 3/8	—	—	—	—	—	15
THHQL ¹	15-70	1	120/240	—	—	22	—	—	—	—	—	—	—	3 9/32	1	2 3/8	—	—	—	—	50
	15-125	2	120/240	—	—	—	22	—	—	—	—	—	—	3 9/32	2	2 3/8	—	—	—	—	25
	15-100	3	240	—	—	—	—	22	—	—	—	—	—	3	2 3/8	—	—	—	—	—	15
TXQL ¹ TXQB ¹ TXQC ¹	15-30	1	120/240	—	—	65	—	—	—	—	—	—	—	3 9/32	1	2 3/8	—	—	—	—	50
		2	120/240	—	—	—	65	—	—	—	—	—	—	3 9/32	2	2 3/8	—	—	—	—	25
		3	240	—	—	—	—	65	—	—	—	—	—	3	2 3/8	—	—	—	—	—	15
TQDL	125-200	2	120/240	—	—	10	—	—	—	—	—	—	—	6 1/16	2	2 3/8	—	—	—	—	12
THQDL	125-200	2	120/240	—	—	22	—	—	—	—	—	—	—	6 1/16	2	2 3/8	—	—	—	—	12
TQD ¹	100-225	2	240	—	—	10	10	—	—	—	—	—	—	6 9/16	2 3/4	2 5/8	2 7/16	2 7/16	—	27/32	1
	100-225	3	240	—	—	—	10	—	—	—	—	—	—	6 9/16	4 1/8	2 5/8	2 7/16	2 7/16	11/16	27/32	1
THQD ¹	100-225	2	240	—	—	22	22	—	—	—	—	—	—	6 9/16	2 3/4	2 5/8	2 7/16	2 7/16	—	27/32	1
	100-225	3	240	—	—	—	22	—	—	—	—	—	—	6 9/16	4 1/8	2 5/8	2 7/16	2 7/16	11/16	27/32	1
TJD	250-400	2	240	—	—	22	22	—	—	—	—	10	—	10 1/8	8 1/4	3 13/16	3 15/16	3 13/16	1 3/8	1 3/16	1
		3	240	—	—	—	22	—	—	—	—	—	—	10 1/8	8 1/4	3 13/16	3 15/16	3 13/16	1 3/8	1 3/16	1

CB3 Ground Fault, Equipment Ground Fault and Arc Fault (UL File E-51075; Fixed Thermal Magnetic Trip Unit)

THQB THQC THQL ...GF, GFEP, AF	15-30	1	120	—	10	—	—	—	—	—	—	—	—	3 9/32	1	2 3/8	—	—	—	—	10
		2	120/240	—	—	1	—	—	—	—	—	—	—	3 9/32	2	2 3/8	—	—	—	—	10
THHQL ...GF THHQB ...GF AF	15-30	1	120	—	22	—	—	—	—	—	—	—	—	3 9/32	1	2 3/8	—	—	—	—	10

¹ UL listed as HACR (heating, air conditioning and refrigeration).

² Not UL listed.



Molded Case Circuit Breakers Q-Line Circuit Breakers

Cable-in Cable-out (lug-lug)
240V Class

TQC, THQC, THHQC 120/240 Vac

# of Poles	Ampere Rating	Wire Range ¹	120/240 Vac Interrupting Rating	Product Number ²	List Price GO-135B	120/240 Vac Interrupting Rating	Product Number ²	List Price GO-135B
1	10	14-4 Cu/12-2 Al	5kA	TQC1110WL	\$20.25			
1	15	14-8 Cu/12-8 Al	10kA	THQC1115WL ^{3,4}	\$20.25	22kA	THHQC1115WL ³	\$35.50
1	20	14-8 Cu/12-8 Al	10kA	THQC1120WL ^{3,4}	\$20.25	22kA	THHQC1120WL ³	\$35.50
1	25	14-8 Cu/12-8 Al	10kA	THQC1125WL ³	\$20.25	22kA	THHQC1125WL ³	\$40.50
1	30	14-8 Cu/12-8 Al	10kA	THQC1130WL ³	\$20.25	22kA	THHQC1130WL ³	\$40.50
1	35	8-3 Cu/8-3 Al	10kA	THQC1135WL ³	\$20.25	22kA	THHQC1135WL ³	\$40.50
1	40	8-3 Cu/8-3 Al	10kA	THQC1140WL ³	\$20.25	22kA	THHQC1140WL ³	\$40.50
1	45	8-3 Cu/8-3 Al	10kA	THQC1145WL ³	\$20.25	22kA	THHQC1145WL ³	\$40.50
1	50	8-3 Cu/8-3 Al	10kA	THQC1150WL ³	\$20.25	22kA	THHQC1150WL ³	\$40.50
1	60	8-3 Cu/8-3 Al	10kA	THQC1160WL ³	\$20.25	22kA	THHQC1160WL ³	\$40.50
1	70	6-1/0 Cu/4-1/0 Al	10kA	THQC1170WL	\$39.00	22kA	THHQC1170WL	\$52.00

TQC, THQC, THHQC 120/240 Vac, Internal Common Trip

# of Poles	Ampere Rating	Wire Range ¹	120/240 Vac Interrupting Rating	Product Number ²	List Price GO-135B	120/240 Vac Interrupting Rating	Product Number ²	List Price GO-135B
2	10	14-4 Cu/12-2 Al	5kA	TQC2110WL	\$46.50			
2	15	14-8 Cu/12-8 Al	10kA	THQC2115WL ³	\$43.50	22kA	THHQC2115WL ³	\$83.50
2	20	14-8 Cu/12-8 Al	10kA	THQC2120WL ³	\$43.50	22kA	THHQC2120WL ³	\$83.50
2	25	14-8 Cu/12-8 Al	10kA	THQC2125WL ³	\$43.50			
2	30	14-8 Cu/12-8 Al	10kA	THQC2130WL ³	\$43.50	22kA	THHQC2130WL ³	\$83.50
2	35	8-3 Cu/8-3 Al	10kA	THQC2135WL ³	\$43.50	22kA	THHQC2135WL ³	\$83.50
2	40	8-3 Cu/8-3 Al	10kA	THQC2140WL ³	\$43.50	22kA	THHQC2140WL ³	\$83.50
2	45	8-3 Cu/8-3 Al	10kA	THQC2145WL ³	\$43.50	22kA	THHQC2145WL ³	\$83.50
2	50	8-3 Cu/8-3 Al	10kA	THQC2150WL ³	\$43.50	22kA	THHQC2150WL ³	\$83.50
2	60	8-3 Cu/8-3 Al	10kA	THQC2160WL ³	\$43.50	22kA	THHQC2160WL ³	\$83.50
2	70	6-1/0 Cu/4-1/0 Al	10kA	THQC2170WL	\$83.50	22kA	THHQC2170WL	\$129.00
2	80	6-1/0 Cu/4-1/0 Al	10kA	THQC2180WL	\$116.00	22kA	THHQC2180WL	\$188.00
2	90	6-1/0 Cu/4-1/0 Al	10kA	THQC2190WL	\$116.00	22kA	THHQC2190WL	\$188.00
2	100	6-1/0 Cu/4-1/0 Al	10kA	THQC21100WL	\$116.00	22kA	THHQC21100WL	\$188.00

TQC, THQC, THHQC 240 Vac, Internal Common Trip

# of Poles	Ampere Rating	Wire Range ¹	240 Vac Interrupting Rating	Product Number ²	List Price GO-135B	240 Vac Interrupting Rating	Product Number	List Price GO-135B
2	10	14-4 Cu/12-2 Al	5kA	TQC22010WL	\$116.00			
2	15	14-8 Cu/12-8 Al	10kA	THQC22015WL	\$116.00	22kA	THHQC22015WL	\$159.00
2	20	14-8 Cu/12-8 Al	10kA	THQC22020WL	\$116.00	22kA	THHQC22020WL	\$159.00
2	25	14-8 Cu/12-8 Al	10kA	THQC22025WL	\$116.00	22kA	THHQC22025WL	\$159.00
2	30	14-8 Cu/12-8 Al	10kA	THQC22030WL	\$116.00	22kA	THHQC22030WL	\$159.00
2	35	8-3 Cu/8-3 Al	10kA	THQC22035WL	\$116.00	22kA	THHQC22035WL	\$159.00
2	40	8-3 Cu/8-3 Al	10kA	THQC22040WL	\$116.00	22kA	THHQC22040WL	\$159.00
2	45	8-3 Cu/8-3 Al	10kA	THQC22045WL	\$116.00	22kA	THHQC22045WL	\$159.00
2	50	8-3 Cu/8-3 Al	10kA	THQC22050WL	\$116.00	22kA	THHQC22050WL	\$159.00
2	60	8-3 Cu/8-3 Al	10kA	THQC22060WL	\$116.00	22kA	THHQC22060WL	\$159.00
2	70	6-1/0 Cu/4-1/0 Al	10kA	THQC22070WL	\$152.00	22kA	THHQC22070WL	\$200.00
2	80	6-1/0 Cu/4-1/0 Al	10kA	THQC22080WL	\$173.00	22kA	THHQC22080WL	\$240.00
2	90	6-1/0 Cu/4-1/0 Al	10kA	THQC22090WL	\$173.00	22kA	THHQC22090WL	\$240.00
2	100	6-1/0 Cu/4-1/0 Al	10kA	THQC22100WL	\$173.00	22kA	THHQC22100WL	\$240.00
3	10	14-4 Cu/12-2 Al	5kA	TQC32010WL	\$141.00			
3	15	14-8 Cu/12-8 Al	10kA	THQC32015WL	\$141.00	22kA	THHQC32015WL	\$216.00
3	20	14-8 Cu/12-8 Al	10kA	THQC32020WL	\$141.00	22kA	THHQC32020WL	\$216.00
3	25	14-8 Cu/12-8 Al	10kA	THQC32025WL	\$141.00	22kA	THHQC32025WL	\$216.00
3	30	14-8 Cu/12-8 Al	10kA	THQC32030WL	\$141.00	22kA	THHQC32030WL	\$216.00
3	35	8-3 Cu/8-3 Al	10kA	THQC32035WL	\$141.00	22kA	THHQC32035WL	\$216.00
3	40	8-3 Cu/8-3 Al	10kA	THQC32040WL	\$141.00	22kA	THHQC32040WL	\$216.00
3	45	8-3 Cu/8-3 Al	10kA	THQC32045WL	\$141.00	22kA	THHQC32045WL	\$216.00
3	50	8-3 Cu/8-3 Al	10kA	THQC32050WL	\$141.00	22kA	THHQC32050WL	\$216.00
3	60	8-3 Cu/8-3 Al	10kA	THQC32060WL	\$141.00	22kA	THHQC32060WL	\$216.00
3	70	6-1/0 Cu/4-1/0 Al	10kA	THQC32070WL	\$178.00	22kA	THHQC32070WL	\$267.00
3	80	6-1/0 Cu/4-1/0 Al	10kA	THQC32080WL	\$202.00	22kA	THHQC32080WL	\$314.00
3	90	6-1/0 Cu/4-1/0 Al	10kA	THQC32090WL	\$202.00	22kA	THHQC32090WL	\$314.00
3	100	6-1/0 Cu/4-1/0 Al	10kA	THQC32100WL	\$202.00	22kA	THHQC32100WL	\$314.00

¹Solid or stranded for 14-10 AWG.

²Use additional suffix "BP" (THQC32020WLBP) for bulk pack of 48 poles. Carton weight 20 lbs. 15-60 ampere breakers only.

³Suitable for mounting on standard 35mm DIN Rail. Refer to table on page 3-23 for termination options.

⁴UL listed as SWD (switching duty) rated. Suitable for switching 120 Vac fluorescent lighting loads.

UL listed HACR (heating, air conditioning and refrigeration). Refer to Q-Line accessories listed on pages 3-26 to 3-27.



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