

## Industrial Circuit Breakers

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

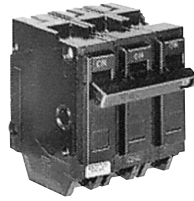
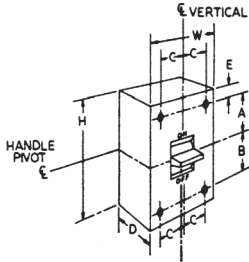


Q-Line Thermal Magnetic Circuit Breakers  
and Molded-Case Switches

Breaker/Switch Type	Suffix				
	Blank	WL	XL	X2	LL
TQD	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

# Molded Case Circuit Breakers

## Quick Reference Guide



THQL 32015

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 lefthand 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.

### 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 <sup>1</sup>	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	-	-	52	-	-	-	-	-	-	-	3 9/32	1	2 3/8	-	-	-	-	50
		2	120/240	-	-	52	-	-	-	-	-	-	-	3 9/32	1	2 3/8	-	-	-	-	25
		3	240	-	-	-	52	-	-	-	-	-	-	3 9/32	2	2 3/8	-	-	-	-	15
THQL <sup>1</sup>	15-70	1	120/240	-	-	10	-	-	-	-	-	-	-	3 9/32	3	2 3/8	-	-	-	-	50
THQB <sup>1</sup>	15-125	2	120/240	-	-	-	10	-	-	-	-	-	-	3 9/32	1	2 3/8	-	-	-	-	25
THQC <sup>1</sup>	15-100	3	240	-	-	-	-	10	-	-	-	-	-	3 9/32	2	2 3/8	-	-	-	-	15
THHQB <sup>1</sup>	15-70	1	120/240	-	-	22	-	-	-	-	-	-	-	3 9/32	3	2 3/8	-	-	-	-	50
THHQB <sup>1</sup>	15-100	2	120/240	-	-	22	-	-	-	-	-	-	-	3 9/32	1	2 3/8	-	-	-	-	25
THHQC <sup>1</sup>	15-100	3	240	-	-	-	22	-	-	-	-	-	-	3 9/32	2	2 3/8	-	-	-	-	15
THHQL <sup>1</sup>	15-70	1	120/240	-	-	22	-	-	-	-	-	-	-	3 9/32	3	2 3/8	-	-	-	-	50
THHQL <sup>1</sup>	15-125	2	120/240	-	-	-	22	-	-	-	-	-	-	3 9/32	1	2 3/8	-	-	-	-	25
THHQL <sup>1</sup>	15-100	3	240	-	-	-	-	22	-	-	-	-	-	3 9/32	2	2 3/8	-	-	-	-	15
TXQL <sup>1</sup>	15-30	1	120/240	-	-	65	-	-	-	-	-	-	-	3 9/32	3	2 3/8	-	-	-	-	50
TXQB <sup>1</sup>	15-30	2	120/240	-	-	65	-	-	-	-	-	-	-	3 9/32	1	2 3/8	-	-	-	-	25
TXQC <sup>1</sup>	15-30	3	240	-	-	-	65	-	-	-	-	-	-	3 9/32	2	2 3/8	-	-	-	-	15

### Ground Fault, Equipment Ground Fault, Arc Fault and Dual Function, Fixed Thermal Trip

THQL	15-30	1	120	-	10	-	-	-	-	-	-	-	-	3 9/32	1	2 3/8	-	-	-	-	10
THQC		2	120/240	-	-	10	-	-	-	-	-	-	-	3 9/32	2	2 3/8	-	-	-	-	10
THHQB	15-20	1	120	-	22	10	-	-	-	-	-	-	-	3 9/32	1	2 3/8	-	-	-	-	10
THHQB		1	120/240	-	-	-	-	-	-	-	-	-	-	3 9/32	1	2 3/8	-	-	-	-	10
THHQB	15-20	1	120/240	-	-	-	-	-	-	-	-	-	-	3 9/32	1	2 3/8	-	-	-	-	10
THHQB		1	120/240	-	-	22	-	-	-	-	-	-	-	3 9/32	1	2 3/8	-	-	-	-	10

<sup>1</sup>UL listed as HACR (heating, air conditioning and refrigeration).

## Q-Line Circuit Breakers

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

### TQC, THQC, THHQC 120/240 Vac

# of Poles	Ampere Rating	Wire Range <sup>1</sup>	120/240 Vac Interrupting Rating	Product Number <sup>2</sup>	120/240 Vac Interrupting Rating	Product Number <sup>2</sup>
1	10	14-4 Cu/12-2 Al	5kA	TQC1110WL	–	–
1	15	14-8 Cu/12-8 Al	10kA	THQC1115WL <sup>3,4</sup>	22kA	THHQC1115WL <sup>3</sup>
1	20	14-8 Cu/12-8 Al	10kA	THQC1120WL <sup>3,4</sup>	22kA	THHQC1120WL <sup>3</sup>
1	25	14-8 Cu/12-8 Al	10kA	THQC1125WL <sup>3</sup>	22kA	THHQC1125WL <sup>3</sup>
1	30	14-8 Cu/12-8 Al	10kA	THQC1130WL <sup>3</sup>	22kA	THHQC1130WL <sup>3</sup>
1	35	8-3 Cu/8-3 Al	10kA	THQC1135WL <sup>3</sup>	22kA	THHQC1135WL <sup>3</sup>
1	40	8-3 Cu/8-3 Al	10kA	THQC1140WL <sup>3</sup>	22kA	THHQC1140WL <sup>3</sup>
1	45	8-3 Cu/8-3 Al	10kA	THQC1145WL <sup>3</sup>	22kA	THHQC1145WL <sup>3</sup>
1	50	8-3 Cu/8-3 Al	10kA	THQC1150WL <sup>3</sup>	22kA	THHQC1150WL <sup>3</sup>
1	60	8-3 Cu/8-3 Al	10kA	THQC1160WL <sup>3</sup>	22kA	THHQC1160WL <sup>3</sup>
1	70	6-1/0 Cu/4-1/0 Al	10kA	THQC1170WL	22kA	THHQC1170WL

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

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

### TQC, THQC, THHQC 240 Vac, Internal Common Trip

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

<sup>1</sup>Solid or stranded for 14-10 AWG.

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

<sup>3</sup>Suitable for mounting on standard 35mm DIN Rail. Refer to table on page 6-38 for termination options.

<sup>4</sup>UL 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 6-40 and 6-41.