

### 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 Switches<sup>1</sup>—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.

<sup>1</sup>Installation 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.

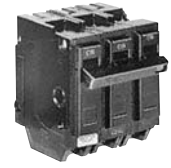
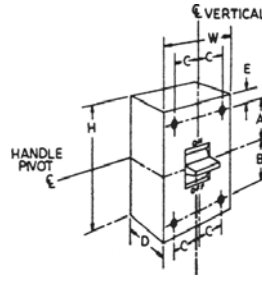
Breaker/Switch Type	Suffix				
	Blank	WL	XL	X2	LL
TQD/TJD	Load Lugs Only	Line and Load Lugs	—	Line Lugs Only	No Lugs
Molded Case Breakers, Thermal Magnetic	Load Lugs Only	Line and Load Lugs	—	Load Lugs Only	No Lugs
Molded Case Switch	Line and Load Lugs	—	No Lugs	Line Lugs Only	Load Lugs Only
Spectra 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		
			ac	dc	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												1							50
TQL/TQB/ TQC	10	1	120/240	—	—	5 <sup>2</sup>	—	—	—	—	—	—	3 9/32	1	2 3/8	—	—	—	—	50	
		2												2							25
		3												3							15
THQL <sup>1</sup> THQB <sup>1</sup> THQC <sup>1</sup>	15-70	1	120/240	—	—	10	—	—	—	—	—	3 9/32	1	2 3/8	—	—	—	—	50		
	15-125	2											2							25	
	15-100	3											3							15	
THHQB <sup>1</sup> THHQC <sup>1</sup>	15-70	1	120/240	—	—	22	—	—	—	—	—	3 9/32	1	2 3/8	—	—	—	—	50		
	15-100	2											2							25	
		3											3							15	
THHQL <sup>1</sup>	15-70	1	120/240	—	—	22	—	—	—	—	—	3 9/32	1	2 3/8	—	—	—	—	50		
	15-125	2											2							25	
	15-100	3											3							15	
TXQL <sup>1</sup> TXQB <sup>1</sup> TXQC <sup>1</sup>	15-30	1	120/240	—	—	65	—	—	—	—	—	3 9/32	1	2 3/8	—	—	—	—	50		
		2											2							25	
		3											3							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 <sup>1</sup>	100-225	2	240	—	—	10	10	—	—	—	—	—	6 9/16	2 3/4	2 5/8	2 7/16	2 7/16	11/16	27/32	1	
	100-225	3				—	10	—	—	—	—	—	6 9/16	4 1/8							1
THQD <sup>1</sup>	100-225	2	240	—	—	22	22	—	—	—	—	—	6 9/16	2 3/4	2 5/8	2 7/16	2 7/16	11/16	27/32	1	
	100-225	3				—	22	—	—	—	—	—	6 9/16	4 1/8							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	
	250-400	3				—	22	—	—	—	—	—	10 1/8	8 1/4							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	—	—	—	—
THHQL ...GF THHQB ...GF AF	15-30	1	120	—	22	—	—	—	—	—	—	—	3 9/32	1	2 3/8	—	—	—	—	10

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

<sup>2</sup> Not UL listed.



# Molded Case Circuit Breakers

## Q-Line Circuit Breakers

Bolt-on Circuit Breakers  
240V Class



THQB2115

### TQB, THQB 120/240 Vac

# of Poles	Ampere Rating	Wire Range <sup>1</sup>	120/240 Vac Interrupting Rating	Product Number	List Price GO-135B
1	10	14-8 Cu/12-8 Al	5kA	TQB1110 <sup>3</sup>	\$19.75
1	15	14-8 Cu/12-8 Al	10kA	THQB1115 <sup>2</sup>	\$19.75
1	20	14-8 Cu/12-8 Al	10kA	THQB1120 <sup>2</sup>	\$19.75
1	25	14-8 Cu/12-8 Al	10kA	THQB1125	\$19.75
1	30	14-8 Cu/12-8 Al	10kA	THQB1130	\$19.75
1	35	8-3 Cu/8-3 Al	10kA	THQB1135	\$19.75
1	40	8-3 Cu/8-3 Al	10kA	THQB1140	\$19.75
1	45	8-3 Cu/8-3 Al	10kA	THQB1145	\$19.75
1	50	8-3 Cu/8-3 Al	10kA	THQB1150	\$19.75
1	60	8-3 Cu/8-3 Al	10kA	THQB1160	\$19.75
1	70	6-1/0 Cu/4-1/0 Al	10kA	THQB1170	\$38.00

### TQB, THQB 120/240 Vac, Internal Common Trip

# of Poles	Ampere Rating	Wire Range <sup>1</sup>	120/240 Vac Interrupting Rating	Product Number	List Price GO-135B
2	10	14-8 Cu/12-8 Al	5kA	TQB2110 <sup>3</sup>	\$43.50
2	15	14-8 Cu/12-8 Al	10kA	THQB2115	\$43.50
2	20	14-8 Cu/12-8 Al	10kA	THQB2120	\$43.50
2	25	14-8 Cu/12-8 Al	10kA	THQB2125	\$43.50
2	30	14-8 Cu/12-8 Al	10kA	THQB2130	\$43.50
2	35	8-3 Cu/8-3 Al	10kA	THQB2135	\$43.50
2	40	8-3 Cu/8-3 Al	10kA	THQB2140	\$43.50
2	45	8-3 Cu/8-3 Al	10kA	THQB2145	\$43.50
2	50	8-3 Cu/8-3 Al	10kA	THQB2150	\$43.50
2	60	8-3 Cu/8-3 Al	10kA	THQB2160	\$43.50
2	70	8-3 Cu/8-3 Al	10kA	THQB2170	\$82.50
2	80	6-1/0 Cu/4-1/0 Al	10kA	THQB2180	\$113.00
2	90	6-1/0 Cu/4-1/0 Al	10kA	THQB2190	\$113.00
2	100	6-1/0 Cu/4-1/0 Al	10kA	THQB21100	\$113.00

### TQB, THQB 240 Vac, Internal Common Trip

# of Poles	Ampere Rating	Wire Range <sup>1</sup>	240 Vac Interrupting Rating	Product Number	List Price GO-135B
2	10	14-8 Cu/12-8 Al	5kA	TQB22010 <sup>3</sup>	\$113.00
2	15	14-8 Cu/12-8 Al	10kA	THQB22015	\$113.00
2	20	14-8 Cu/12-8 Al	10kA	THQB22020	\$113.00
2	25	14-8 Cu/12-8 Al	10kA	THQB22025	\$113.00
2	30	14-8 Cu/12-8 Al	10kA	THQB22030	\$113.00
2	35	8-3 Cu/8-3 Al	10kA	THQB22035	\$113.00
2	40	8-3 Cu/8-3 Al	10kA	THQB22040	\$113.00
2	45	8-3 Cu/8-3 Al	10kA	THQB22045	\$113.00
2	50	8-3 Cu/8-3 Al	10kA	THQB22050	\$113.00
2	60	8-3 Cu/8-3 Al	10kA	THQB22060	\$113.00
2	70	6-1/0 Cu/4-1/0 Al	10kA	THQB22070	\$148.00
2	80	6-1/0 Cu/4-1/0 Al	10kA	THQB22080	\$170.00
2	90	6-1/0 Cu/4-1/0 Al	10kA	THQB22090	\$170.00
2	100	6-1/0 Cu/4-1/0 Al	10kA	THQB22100	\$170.00
3	10	14-8 Cu/12-8 Al	5kA	TQB32010 <sup>3</sup>	\$139.00
3	15	14-8 Cu/12-8 Al	10kA	THQB32015	\$139.00
3	20	14-8 Cu/12-8 Al	10kA	THQB32020	\$139.00
3	25	14-8 Cu/12-8 Al	10kA	THQB32025	\$139.00
3	30	14-8 Cu/12-8 Al	10kA	THQB32030	\$139.00
3	35	8-3 Cu/8-3 Al	10kA	THQB32035	\$139.00
3	40	8-3 Cu/8-3 Al	10kA	THQB32040	\$139.00
3	45	8-3 Cu/8-3 Al	10kA	THQB32045	\$139.00
3	50	8-3 Cu/8-3 Al	10kA	THQB32050	\$139.00
3	60	8-3 Cu/8-3 Al	10kA	THQB32060	\$139.00
3	70	6-1/0 Cu/4-1/0 Al	10kA	THQB32070	\$175.00
3	80	6-1/0 Cu/4-1/0 Al	10kA	THQB32080	\$199.00
3	90	6-1/0 Cu/4-1/0 Al	10kA	THQB32090	\$199.00
3	100	6-1/0 Cu/4-1/0 Al	10kA	THQB32100	\$199.00

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

<sup>2</sup>UL listed as SWD (Switching Duty) rated. Suitable for switching 120 Vac fluorescent lighting loads.

<sup>3</sup>Not UL listed.

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



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

# Panelboards

## A-Series® Panelboards

### Pro-Stock, Unassembled Lighting Panels

#### 6 Select Main Lug Kit and Accessories

Select lug kit(s) for main lug and/or feed-thru applications, if required. (All lugs are suitable for interiors with either copper or aluminum bus.) Also select any accessories required.



#### Main Lug Kits

Lug Type	Amp Rating	Standard			Oversized			200% Neutral	
		Product Number	List Price GO-101P	Wire Range	Product Number	List Price GO-101P	Wire Range	Product Number	List Price GO-101P
Pressure	225	MLA1	\$30.00	6-350 MCM	MLA2	\$52.00	1-600 MCM or (2) 1/0-250 MCM	NKA	\$25.00
	400	MLA41	\$60.00	2-600 MCM or (2) 1/0-250 MCM	MLA62	\$100.00	3/0-800 MCM	NKA4 <sup>2</sup>	\$50.00
	600	MLA61	\$90.00	(2) 2/0-500 MCM	MLA62	\$100.00	3/0-800 MCM	-	-
Copper	225	MLR1	\$65.00	4-350 MCM	MLR2	\$105.00	1-600 MCM	NKR	\$43.00
	400	MLR41	\$120.00	1-600 MCM	MLR61	\$175.00	(2) 2/0-500 MCM	NKR4	\$80.00
	600	MLR61	\$175.00	(2) 2/0-500 MCM	-	-	-	-	-
Compression	225	MLT1	\$65.00	2/0-300 MCM	MLT2	\$105.00	4/0-500 MCM	NKT	\$43.00
	400	MLT42	\$120.00	250-600 MCM	MLT41	\$120.00	500-750 MCM <sup>1</sup>	NKT4	\$80.00
Dual	225	MLA2	\$52.00	1-600 MCM or (2) 1/0-250 MCM	-	-	-	-	-
Main	400	MLA61	\$90.00	(2) 2/0-500 MCM	-	-	-	-	-

<sup>1</sup>500 MCM Cu, 750 MCM Al.

<sup>2</sup>For 200% neutral feed-thru, order NKA4FT, List Price \$85.00 (GO-101P). Wire range (2) 2/0 - 600 MCM or (4) 4-250 MCM.

#### Accessories

Service Entrance <sup>3</sup>			ProCare Kit <sup>4</sup>		
Amp Rating	Product Number	List Price, GO-101P	Description	Product Number	List Price, GO-101P
225A	BNDKT	\$15.00	ProCare Kit for Pro-Stock panelboard installation and maintenance	PROCARE	\$100.00
400A	BNDKT6	\$30.00			
600A	BNDKT6	\$30.00			

<sup>3</sup>Service entrance kit includes a bonding strap with hardware and a service entrance label.

<sup>4</sup>ProCare Kit includes: (5) filler plate hardware kits, (9) bus stud nuts, (5) MLA1 filler plates, (2) 225A phase barriers, (2) feed-thru barriers, (1) 400/600A phase barrier, (50) directory cards/rating books, (50) circuit number strips (1-48), (50) circuit number strips (43-84), (5) standard locks and keys, (50) deadfront screws, (10) AQ/AE front hardware kits, (10) AD front hardware kits, (50) service disconnect labels, (50) main labels.

#### 7 Typical Bolt-On Branch Breakers

These tables show typical branch breakers, but do not include all branch breakers that can be used with Pro-Stock panelboards.

#### Branch circuit breakers for use with AQ panels (208/120 Vac 3-phase or 240 Vac single phase)

Amp Rating	10kAIC						22kAIC					
	1-pole		2-pole		3-pole		1-pole		2-pole		3-pole	
	Product Number	List Price GO-135B	Product Number	List Price GO-135B	Product Number	List Price GO-135B	Product Number	List Price GO-135B	Product Number	List Price GO-135B	Product Number	List Price GO-135B
15	THQB1115	\$19.75	THQB2115	\$43.50	THQB32015	\$139.00	THHQB1115	\$35.00	THHQB2115	\$82.50	THHQB32015	\$212.00
20	THQB1120	\$19.75	THQB2120	\$43.50	THQB32020	\$139.00	THHQB1120	\$35.00	THHQB2120	\$82.50	THHQB32020	\$212.00
25	THQB1125	\$19.75	THQB2125	\$43.50	THQB32025	\$139.00	THHQB1125	\$39.00	THHQB2125	\$82.50	THHQB32025	\$212.00
30	THQB1130	\$19.75	THQB2130	\$43.50	THQB32030	\$139.00	THHQB1130	\$39.00	THHQB2130	\$82.50	THHQB32030	\$212.00
35	THQB1135	\$19.75	THQB2135	\$43.50	THQB32035	\$139.00	THHQB1135	\$39.00	THHQB2135	\$82.50	THHQB32035	\$212.00
40	THQB1140	\$19.75	THQB2140	\$43.50	THQB32040	\$139.00	THHQB1140	\$39.00	THHQB2140	\$82.50	THHQB32040	\$212.00
45	THQB1145	\$19.75	THQB2145	\$43.50	THQB32045	\$139.00	THHQB1145	\$39.00	THHQB2145	\$82.50	THHQB32045	\$212.00
50	THQB1150	\$19.75	THQB2150	\$43.50	THQB32050	\$139.00	THHQB1150	\$39.00	THHQB2150	\$82.50	THHQB32050	\$212.00
60	THQB1160	\$19.75	THQB2160	\$43.50	THQB32060	\$139.00	THHQB1160	\$39.00	THHQB2160	\$82.50	THHQB32060	\$212.00
70	THQB1170	\$38.00	THQB2170	\$82.50	THQB32070	\$175.00	THHQB1170	\$51.00	THHQB2170	\$126.00	THHQB32070	\$263.00
80	-	-	THQB2180	\$113.00	THQB32080	\$199.00	-	-	THHQB2180	\$183.00	THHQB32080	\$307.00
90	-	-	THQB2190	\$113.00	THQB32090	\$199.00	-	-	THHQB2190	\$183.00	THHQB32090	\$307.00
100	-	-	THQB21100	\$113.00	THQB32100	\$199.00	-	-	THHQB21100	\$183.00	THHQB32100	\$307.00

#### Branch circuit breakers for use with AE panels (480/277 Vac 3-phase)

Amp Rating	14kAIC					
	1-pole		2-pole		3-pole	
	Product Number	List Price GO-135B	Product Number	List Price GO-135B	Product Number	List Price GO-135B
15	TEY115	\$72.00	TEY215	\$216.00	TEY315	\$316.00
20	TEY120	\$72.00	TEY220	\$216.00	TEY320	\$316.00
30	TEY130	\$72.00	TEY230	\$216.00	TEY330	\$316.00
40	TEY140	\$72.00	TEY240	\$216.00	TEY340	\$316.00
50	TEY150	\$72.00	TEY250	\$216.00	TEY350	\$316.00
60	TEY160	\$72.00	TEY260	\$216.00	TEY360	\$316.00
70	TEY170	\$142.00	TEY270	\$352.00	TEY370	\$424.00
80	TEY180	\$142.00	TEY280	\$352.00	TEY380	\$424.00
90	TEY190	\$142.00	TEY290	\$352.00	TEY390	\$424.00
100	TEY1100	\$142.00	TEY2100	\$352.00	TEY3100	\$424.00

