

### 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 Switches<sup>1</sup>—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.

<sup>1</sup>Installation 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

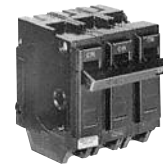
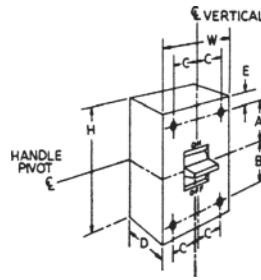
Order standard Cu/Al lugs by using suffix codes presented. Order lugs separately if special lugs are required. For optional lugs, see pages 6-102 and 6-103.

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	

### 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										
			ac	dc	120	120/240	240	277	480	600	125	250	H	W	D	A	B	C	E		
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	240			—	5 <sup>2</sup>							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					—							10						2	25
	15-100	3				240	—							—						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					—							22						2	25
	15-100	3				240	—							—						3	15
THHQL <sup>1</sup>	15-70	1	120/240	—	—	22	—	—	—	—	—	—	3 9/32	1	2 3/8	—	—	—	—	50	
	15-125	2					—							22						2	25
	15-100	3				240	—							—						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					—							65						2	25
		3				240	—							—						3	15
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	—	27/32	1	
	100-225	3	240			—	10							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	—	27/32	1	
	100-225	3	240			—	22							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	
		3	240			—	22													1	

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

THQL THQB THQC GFT, GFEP	15-30	1	120	—	10	—	—	—	—	—	—	—	3 9/32	1	2 3/8	—	—	—	—	10
		2	120/240			10								2						10
THHQL THHQB GFT	15-30	1	120	—	22	—	—	—	—	—	—	—	3 9/32	1	2 3/8	—	—	—	—	10
THQL THQB THQC ...AF2, DF	15-20	1	120/240	—	—	10	—	—	—	—	—	—	3 9/32	1	2 3/8	—	—	—	—	10
THHQL THHQB ...AF2, DF	15-20	1	120/240	—	—	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.

# Panelboards

## A-Series™ II Panelboards

### Pro-Stock, Unassembled Lighting Panels

## Section 11

#### 5 Typical Main Breakers

- Skip Step 5 if you selected a main breaker kit ending in “WB” — no breaker is required.
- To correlate breaker types with the kAIC rating in specific panelboards, see the table for Step 4. For more rating details, see A-Series™ II Lighting Panels Rating Series Labels (DEH-40007).

- All TQD and Spectra™ main breakers require line-side lugs.
- For TEY and THQB main breakers, see branch breakers tables in Step 7.

#### Digital, Solid State Spectra™ RMS Breakers (3-pole) For use with appropriate main breaker kit (see Step 4).

Breaker			Rating Plug <sup>1</sup>		Terminal Lugs for Front Connection <sup>2</sup>	
Poles	Current Sensor	Product Number	Amp Rating	Product Number	Product Number	Wire Range (Cu/Al)
3	100	SEDA36AT0100	100	SRPE100A100	TCAL18	#12-3/0
		SEHA36AT0100				
		SELA36AT0100				
		SEPA36AT0100				
	150	SEDA36AT0150	110	SRPE150A110	TCAL29	#8-350 MCM
		SELA36AT0150	125	SRPE150A125		
		SEPA36AT0150	150	SRPE150A150		
		250	SFHA36AT0250 SFLA36AT0250 SFPA36AT0250	70		
	90			SRPF250A90		
	100			SRPF250A100		
	110			SRPF250A110		
	125			SRPF250A125		
	150			SRPF250A150		
	175			SRPF250A175		
	200			SRPF250A200		
	3	400	SGHA36AT0400 SGLA36AT0400 SGPA36AT0400	125	SRPG400A125	TCLK365
150				SRPG400A150		
175				SRPG400A175		
200				SRPG400A200		
2	400	SGHA26AT0400 SGLA26AT0400 SGPA26AT0400	225	SRPG400A225	TCLK265	
			250	SRPG400A250		
			300	SRPG400A300		
			350	SRPG400A350		
3	600	SGLA36AT0600 SGPA36AT0600	400	SRPG400A400	TCLK365	
			250	SRPG600A250		
			300	SRPG600A300		
			350	SRPG600A350		
2	600	SGLA26AT0600 SGPA26AT0600	400	SRPG600A400	TCLK265	
			500	SRPG600A500		
			600	SRPG600A600		

<sup>1</sup>Any rating plug within a given current sensor group may be paired with any breaker in that group.

<sup>2</sup>Except for “WB” kits, lugs must be ordered separately for Spectra™ breakers. All Spectra™ breakers also require an appropriate rating plug.

#### Main or subfeed breakers for use with AQ panels (208/120 Vac 3-phase or 240 Vac single phase). See Step 4.

Amp Rating	2-pole		3-pole	
	10kAIC	22kAIC	10kAIC	22kAIC
	Product <sup>3</sup> Number	Product Number	Product <sup>3</sup> Number	Product Number
100	TQD22100X2	THQD22100X2	TQD32100X2	THQD32100X2
125	TQD22125X2	THQD22125X2	TQD32125X2	THQD32125X2
150	TQD22150X2	THQD22150X2	TQD32150X2	THQD32150X2
175	TQD22175X2	THQD22175X2	TQD32175X2	THQD32175X2
200	TQD22200X2	THQD22200X2	TQD32200X2	THQD32200X2
225	TQD22225X2	THQD22225X2	TQD32225X2	THQD32225X2
250	—	TJD422250L2	—	TJD432250L3
300	—	TJD422300L2	—	TJD432300L3
350	—	TJD422350L2	—	TJD432350L3
400	—	TJD422400L2	—	TJD432400L3

#### Main or subfeed breakers for use with AE panels (480/277 Vac 3-phase). See Step 4.

Amp Rating	3-pole		
	18kAIC	22kAIC	30kAIC
	Product Number	Product Number	Product Number
100	TED134110WL	THED134110WL	MB233WB
125	TED134125WL	THED134125WL	MB233WB
150	TED134150WL	THED134150WL	MB233WB
175	—	—	MB233WB
200	—	—	MB233WB
225	—	—	MB233WB
250	—	—	TJJ436250L3
300	—	—	TJJ436300L3
350	—	—	TJJ436350L3
400	—	—	TJJ436400L3

<sup>3</sup>Any load-side lugs on TQD breakers must be removed before assembly. TQD breakers with X2 product number suffix feature line-side lugs only.