

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.

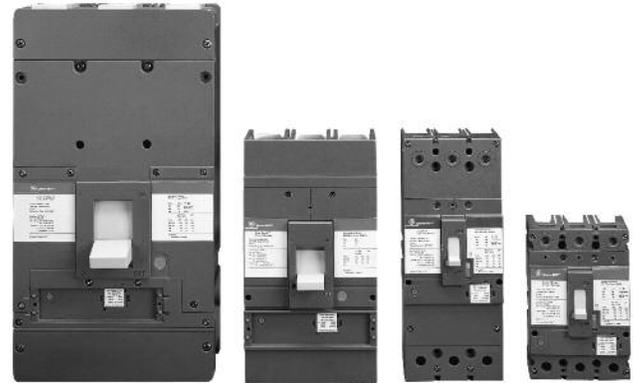
Unless otherwise noted, all circuit breakers are UL listed in File E-11592. Molded case switches are UL listed in File E-57546. Field-Installable Internal Accessories are UL listed in File E-57253. Distribution Cable Accessories for *microEntelliGuard™* Trip Units are UL listed in File E-57253.

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

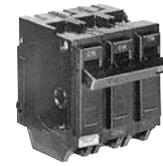
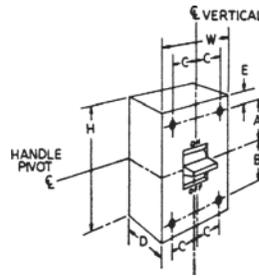
Order standard Cu/Al lugs by using suffix codes presented. Order lugs separately if special lugs are required. For optional lugs, see pages 6-102 and 6-103.

| 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 | |

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 | — | — | — | — | — | — | — | 1 1/2 | 5 | | | | | | | | |
| THQP ¹ | 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 ² | — | — | — | — | — | — | 3 | 9/32 | 1 | 2 3/8 | — | — | — | — | — | — | 50 |
| | | 2 | | | | | | | | | | | | 2 | 25 | | | | | | | | |
| | | 3 | | | | | | | | | | | | 3 | 240 | | | | | | | | — |
| THQL ¹ THQB ¹ THQC ¹ | 15-70 | 1 | 120/240 | — | — | 10 | — | — | — | — | — | — | 3 | 9/32 | 1 | 2 3/8 | — | — | — | — | — | — | 50 |
| | 15-125 | 2 | | | | | | | | | | | | 2 | 25 | | | | | | | | |
| | 15-100 | 3 | | | | | | | | | | | | 240 | — | | | | | | | | — |
| THHQB ¹ THHQC ¹ | 15-70 | 1 | 120/240 | — | — | 22 | — | — | — | — | — | — | 3 | 9/32 | 1 | 2 3/8 | — | — | — | — | — | — | 50 |
| | 15-100 | 2 | | | | | | | | | | | | 2 | 25 | | | | | | | | |
| | 15-100 | 3 | | | | | | | | | | | | 240 | — | | | | | | | | — |
| THHQL ¹ | 15-70 | 1 | 120/240 | — | — | 22 | — | — | — | — | — | — | 3 | 9/32 | 1 | 2 3/8 | — | — | — | — | — | — | 50 |
| | 15-125 | 2 | | | | | | | | | | | | 2 | 25 | | | | | | | | |
| | 15-100 | 3 | | | | | | | | | | | | 240 | — | | | | | | | | — |
| TXQL ¹ TXQB ¹ TXQC ¹ | 15-30 | 1 | 120/240 | — | — | 65 | — | — | — | — | — | — | 3 | 9/32 | 1 | 2 3/8 | — | — | — | — | — | — | 50 |
| | | 2 | | | | | | | | | | | | 2 | 25 | | | | | | | | |
| | | 3 | | | | | | | | | | | | 3 | 240 | | | | | | | | — |
| 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 | | | | | | | | — | — | | | | | | — | — |
| 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 | | | | | | | | — | — | | | | | | — | — |
| 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 | | | | | | | | — | — | | | | | | — | — |

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 |

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

² Not UL listed.

Panelboards

A-Series™ II Panelboards

Pro-Stock, Unassembled Lighting Panels

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).

| Poles | Breaker | | Rating Plug ¹ | | Terminal Lugs for Front Connection ² | | | | | | | |
|--------------|----------------|----------------|---|---|---|--------------------------|--|---|---|--------------|--|----------------------------|
| | 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 | | | | | | | | | | |
| | 150 | SEPA36AT0100 | | | | | | | | | | |
| | | SEDA36AT0150 | | | | | | | | | | |
| | | SELA36AT0150 | | | | | | | | | | |
| 3 | 250 | SFHA36AT0250 | 70 90 100 110 125 150 175 200 225 | SRPF250A70 SRPF250A90 SRPF250A100 SRPF250A110 SRPF250A125 SRPF250A150 SRPF250A175 SRPF250A200 SRPF250A225 | TCAL29 | #8-350 MCM | | | | | | |
| | | SFLA36AT0250 | | | | | | | | | | |
| | | SFPA36AT0250 | | | | | | | | | | |
| | | 400 | | | | | SGHA36AT0400 | 125 150 175 200 225 250 300 350 400 | SRPG400A125 SRPG400A150 SRPG400A175 SRPG400A200 SRPG400A225 SRPG400A250 SRPG400A300 SRPG400A350 SRPG400A400 | TCLK365 | Al: (2) 2/0-500 MCM or (1) #6-600 MCM Cu: (2) 2/0-400 MCM or (1) #8-600 MCM | |
| | | | | | | | SGLA36AT0400 | | | | | |
| | | | | | | | SGPA36AT0400 | | | | | |
| | 2 | | | | SGHA26AT0400 | 250 300 350 400 | SRPG400A250 SRPG400A300 SRPG400A350 SRPG400A400 | | | | | TCLK265 |
| | | | | | SGLA26AT0400 | | | | | | | |
| | | | | | SGPA26AT0400 | | | | | | | |
| | 3 | 600 | | | SGLA36AT0600 | 250 300 350 400 | SRPG600A250 SRPG600A300 SRPG600A350 SRPG600A400 | TCLK365 | | | | |
| | | | | | SGPA36AT0600 | | | | | | | |
| | | | | | 2 | | | | 600 | SGLA26AT0600 | 500 600 | SRPG600A500 SRPG600A600 |
| SGPA26AT0600 | | | | | | | | | | | | |
| | | | | | | | | | | | | |

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

²Except 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 ³ Number | | Product Number | | Product ³ 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 | | |
| 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 |

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