## The PowerPact Advantage

- Proven Performance: Industry-leading circuit breaker innovation and protection for heavy-duty commercial and industrial applications.
- Smart: Integrated metering options provide a cost-effective solution to reduce energy consumption, optimize energy costs, and improve energy availablility for your facilities.
- Flexible: Full range of thermal-magnetic and electronic trip molded case circuit breakers from 15 A to 3000 A , delivering the ratings, configurations, and operators for your unique applications.
- Simple: Common catalog numbers, standardized ratings, and a full range of fieldinstallable accessories make product selection, installation and maintenance easier than ever.
- Common Design Features: Mounting holes, door trim, and handle accessories

| $\begin{gathered} \text { B-Frame } \\ 125 \mathrm{~A} \end{gathered}$ | $\begin{gathered} \text { H-Frame } \\ 150 \mathrm{~A} \end{gathered}$ | J-Frame $250 \mathrm{~A}$ | $\begin{aligned} & \text { Q-Frame } \\ & 250 \mathrm{~A} \end{aligned}$ | $\begin{gathered} \text { L-Frame } \\ 600 \mathrm{~A} \end{gathered}$ | $\underset{800 \mathrm{~A}}{\substack{\text { M-Frame }}}$ | $\begin{aligned} & \text { P-Frame } \\ & 1200 \mathrm{~A} \\ & \hline \end{aligned}$ | $\begin{gathered} \text { R-Frame } \\ 3000 \mathrm{~A} \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Electronic Trip Version | Electronic Trip Version |  |  |  |  |  |

Table 7.45: PowerPact Interrupting Ratings

| Voltage | Interrupting Rating |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | B | D | G | J | L | R |  |
| 240 Vac | 10 kA | 25 kA | 65 kA | 100 kA | $65 \mathrm{kA}[1]$ | 125 kA | 200 kA |
| 480 Vac |  | 18 kA | 35 kA | 65 kA | $65 \mathrm{kA}[2]$ | 100 kA | 200 kA |
| 600 Vac |  | 14 kA | 18 kA | 25 kA | $65 \mathrm{kA}[2]$ | $50 \mathrm{kA}[3]$ | 100 kA |

Table 7.46: Common Catalog Numbering System


## Description

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L-Frame Circuit Breakers, page 7-37
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Motor Circuit Protectors and Motor Protector Circuit Breakers, page 7-45
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Motor Operators and Rotary Handles, page 7-55
Locks, Installation Accessories, and Rear Connections, page 7-57
Mechanical Lugs, page 7-57
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Micrologic ${ }^{\text {TM }}$ Electronic Trip Units, page 7-64
Micrologic ${ }^{\text {TM }}$ Trip Unit Accessories, page 7-68
[1] B-Frame K interrupting rating is 100 kA at 240 Vac
[2] P-frame K interrupting is 50 kA at 480 and 600 Vac .
[3] P-frame L interrupting is 25 kA at 600 Vac .
[4] For amperage of M,-, P- or R-frame circuit breakers, add a zero to the three amperage digits; for example, $120=1200 \mathrm{~A}$.


Q-Frame Molded Case Circuit Breakers
Table 7.60: PowerPact Q-Frame 250 A Thermal-Magnetic Circuit Breaker (240 Vac)
[21]

| Ampere Rating | Fixed AC Magnetic Trip |  | Interrupting Rating |  |  |  | Terminal Wire Range |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Hold | Trip | B | D | G | J |  |
| 2P, 240 Vac |  |  |  |  |  |  |  |
| 70 A | 1000 A | 1800 A | QBL22070 | QDL22070 | QGL22070 | QJL22070 | \#4 AWG - 300 kcmil Al/Cu |
| 80 A | 1000 A | 1800 A | QBL22080 | QDL22080 | QGL22080 | QJL22080 |  |
| 90 A | 1000 A | 1800 A | QBL22090 | QDL22090 | QGL22090 | QJL22090 |  |
| 100 A | 1200 A | 2400 A | QBL22100 | QDL22100 | QGL22100 | QJL22100 |  |
| 110 A | 1200 A | 2400 A | QBL22110 | QDL22110 | QGL22110 | QJL22110 |  |
| 125 A | 1200 A | 2400 A | QBL22125 | QDL22125 | QGL22125 | QJL22125 |  |
| 150 A | 1200 A | 2400 A | QBL22150 | QDL22150 | QGL22150 | QJL22150 |  |
| 175 A | 1200 A | 2400 A | QBL22175 | QDL22175 | QGL22175 | QJL22175 |  |
| 200 A | 1200 A | 2400 A | QBL22200 | QDL22200 | QGL22200 | QJL22200 |  |
| 225 A | 1200 A | 2400 A | QBL22225 | QDL22225 | QGL22225 | QJL22225 |  |
| 250 A [22] | 1200 A | 2400 A | QBL22250 | QDL22250 | QGL22250 | QJL22250 |  |
| 3P, 240 Vac |  |  |  |  |  |  |  |
| 70 A | 1000 A | 1800 A | QBL32070 | QDL32070 | QGL32070 | QJL32070 | \#4 AWG - 300 kcmil Al/Cu |
| 80 A | 1000 A | 1800 A | QBL32080 | QDL32080 | QGL32080 | QJL32080 |  |
| 90 A | 1000 A | 1800 A | QBL32090 | QDL32090 | QGL32090 | QJL32090 |  |
| 100 A | 1200 A | 2400 A | QBL32100 | QDL32100 | QGL32100 | QJL32100 |  |
| 110 A | 1200 A | 2400 A | QBL32110 | QDL32110 | QGL32110 | QJL32110 |  |
| 125 A | 1200 A | 2400 A | QBL32125 | QDL32125 | QGL32125 | QJL32125 |  |
| 150 A | 1200 A | 2400 A | QBL32150 | QDL32150 | QGL32150 | QJL32150 |  |
| 175 A | 1200 A | 2400 A | QBL32175 | QDL32175 | QGL32175 | QJL32175 |  |
| 200 A | 1200 A | 2400 A | QBL32200 | QDL32200 | QGL32200 | QJL32200 |  |
| 225 A | 1200 A | 2400 A | QBL32225 | QDL32225 | QGL32225 | QJL32225 |  |
| 250 A [22] | 1200 A | 2400 A | QBL32250 | QDL32250 | QGL32250 | QJL32250 |  |

Table 7.61: Q-Frame Termination Options

| Termination Letter |  |
| :--- | :--- |
| A = I-Line (See Section 9) | Q G L 32200 |
| For factory-installed termination, place |  |
| termination letter in the third block of the circuit |  |
| breaker catalog number. |  |

Table 7.62: Q-Frame Interrupting Ratings

| Voltage | Interrupting Rating |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | B | D | G | J |
| $240 \mathrm{Vac}[23]$ | 10 kA | 25 kA | $100 \mathrm{kA}[24]$ |  |

Dimension see page 7-75
Enclosures see page 7-76
[21] Replacement lugs and electrical accessories are not available for PowerPact Q-frame circuit breakers.
[22] 250 A lugs are suitable for copper conductors only.
[23] Q-frame circuit breakers are 240 Vac only.
[24] 3P QJ circuit breakers are rated at 208Y/120 Vac only.

