



FA/FH, 1-pole
1.5 in (38 mm)
Mounting Height



FA/FH, 2-pole
3 in (76 mm)
Mounting Height



FA/FH, 3-pole
4.5 in (114 mm)
Mounting Height

Table 9.114: Example: BD, 20 A 1-Pole, 277 Vac and 90 A 2- and 3-Pole BD 240 Vac. Use phase option number for BD, BG, BJ, HD, HG, HJ, HL, HR, JD, JG, JJ, JL, JR, MG, and MJ.

| Phase Option Number | Phase Connection | 1-pole | 2-pole | 3-pole |
|---------------------|------------------|-----------|-----------|-----------|
| 1 | A | FJA140201 | — | — |
| 3 | B | FJA140203 | — | — |
| 5 | C | FJA140205 | — | — |
| 1 | AB | — | QBA220701 | — |
| 2 | AC | — | QBA220702 | — |
| 3 | BA | — | QBA220703 | — |
| 4 | BC | — | QBA220704 | — |
| 5 | CA | — | QBA220705 | — |
| 6 | CB | — | QBA220706 | — |
| Standard [1] | ABC | — | — | QBA32070 |
| 6 | CBA | — | — | QBA320706 |

Table 9.116: Interrupt Ratings (kA)

| | FA (240 V) | FA (480 V) | FJ |
|-------|------------|---------------------|----|
| 240 V | 10 | 18 (1P), 25 (2, 3P) | 65 |
| 277 V | — | 18 | 65 |
| 480 V | — | 18 | — |
| 600 V | — | — | — |

F-frame accessories starting on Supplemental Digest Section 3.

Table 9.115: Example: FA, 30 A, 480 Vac. Use phase option letters for FA, FH, LA, and LH.

| Phase Option Letter | 1-pole | 2-pole | 3-pole |
|---------------------|----------|-----------|------------|
| A | FA14035A | — | — |
| B | FA14035B | — | — |
| C | FA14035C | — | — |
| AB | — | FA24030AB | — |
| AC | — | FA24030AC | — |
| BC | — | FA24030BC | — |
| ABC | — | — | FA34030 |
| CBA | — | — | FA34030CBA |

Table 9.117: F-frame—100 A, Thermal-magnetic (240 Vac)

| Ampere Rating | AC Magnetic Trip Settings | | FA22040() | Terminal Wire Range |
|----------------------------|---------------------------|------|------------|--|
| | Hold | Trip | | |
| 2-pole, 240 Vac [2] | | | | |
| 40 A | | | FA22040() | AL50FA #14–#4 AWG Cu or #12–#4 AWG Al |
| 20 A | 275 | 600 | FA22020() | |
| 25 A | | | FA22025() | |
| 30 A | | | FA22030() | |
| 35 A | 400 | 850 | FA22035() | AL100FA #14–#1/0 AWG Cu or #12–#1/0 AWG Al |
| 45 A | | | FA22045() | AL100FA #14–#1/0 AWG Cu or #12–#1/0 AWG Al |
| 50 A | 800 | 1450 | FA22050() | |
| 60 A | | | FA22060() | |
| 70 A | | | FA22070() | |
| 80 A | | | FA22080() | |
| 90 A | 900 | 1700 | FA22090() | AL100FA #14–#1/0 AWG Cu or #12–#1/0 AWG Al |
| 100 A | | | FA22100() | |
| 3-pole, 240 Vac | | | | |
| 15 A | 275 | 600 | FA32015 | AL50FA #14–#4 AWG Cu or #12–#4 AWG Al |
| 20 A | | | FA32020 | |
| 25 A | | | FA32025 | |
| 30 A | | | FA32030 | |
| 35 A | 400 | 850 | FA32035 | AL100FA #14–#1/0 AWG Cu or #12–#1/0 AWG Al |
| 40 A | | | FA32040 | |
| 45 A | | | FA32045 | |
| 50 A | | | FA32050 | |
| 60 A | 800 | 1450 | FA32060 | AL100FA #14–#1/0 AWG Cu or #12–#1/0 AWG Al |
| 70 A | | | FA32070 | |
| 80 A | | | FA32080 | |
| 90 A | | | FA32090 | |
| 100 A | 900 | 1700 | FA32100 | AL100FA #14–#1/0 AWG Cu or #12–#1/0 AWG Al |

Table 9.118: F-frame—100 A, Thermal-magnetic (480 Vac)

| Ampere Rating | AC Magnetic Trip Settings | | Standard Interrupting Catalog Number | Extra High Interrupting Catalog Number | Terminal Wire Range | |
|-------------------------------------|---------------------------|------|--------------------------------------|--|--|--|
| | Hold | Trip | | | FY/FA Lugs | FJ/FC Lugs |
| 1-pole, 277 Vac, 125 Vdc [3] | | | | | | |
| 15 A | 275 | 600 | FY14015() [4] | FJA14015() | AL50FA #14–#6 AWG Cu, or #12–#4 AWG Al | AL30FD #12–#6 AWG Al, or #14–#6 AWG Cu |
| 20 A | | | FY14020() [4] | FJA14020() | | |
| 25 A | | | FY14025() [4] | FJA14025() | | |
| 30 A | | | FY14030() [4] | FJA14030() | | |
| 35 A | 400 | 850 | FA14035() | FJA14035() | AL100FA #14–#1/0 AWG Cu or #12–#1/0 AWG Al | AL100FD #12–#2/0 AWG Al or |
| 40 A | | | FA14040() | FJA14040() | | |

[1] The absence of a phase option number after a 3-pole catalog number will result in an ABC phase connection.
 [2] 1- and 2-pole circuit breaker catalog numbers are completed by adding the required phase connection letters as a suffix.
 [3] 1- and 2-pole circuit breaker catalog numbers are completed by adding the required phase connection letters as a suffix.
 [4] Rated 277 Vac 15 and 20 A FY circuit breakers are rated for switching duty (SWD). 15, 20, 25, and 30 A FA I-Line circuit breakers are also available (no SWD rating).

Table 9.120 PowerPact™ Q-frame— 225 A, Thermal-magnetic (240 Vac)(PowerPact Q-frame 2-pole branch circuit breakers utilize 3" of I-Line mounting space and 3-pole Q-frame circuit breakers utilize 4.5" of I-Line mounting space.) (cont'd.)

| Ampere Rating | AC Magnetic Trip Settings | | "B" Interrupting | "D" Interrupting | "G" Interrupting | "J" Interrupting |
|---------------|---------------------------|------|------------------|------------------|------------------|------------------|
| | Hold | Trip | Catalog Number | Catalog Number | Catalog Number | Catalog Number |
| 80 A | 1200 | 2400 | QBA32080() | QDA32080() | QGA32080() | QJA32080() |
| 90 A | | | QBA32090() | QDA32090() | QGA32090() | QJA32090() |
| 100 A | | | QBA32100() | QDA32100() | QGA32100() | QJA32100() |
| 110 A | | | QBA32110() | QDA32110() | QGA32110() | QJA32110() |
| 125 A | | | QBA32125() | QDA32125() | QGA32125() | QJA32125() |
| 150 A | | | QBA32150() | QDA32150() | QGA32150() | QJA32150() |
| 175 A | | | QBA32175() | QDA32175() | QGA32175() | QJA32175() |
| 200 A | | | QBA32200() | QDA32200() | QGA32200() | QJA32200() |
| 225 A | | | QBA32225() | QDA32225() | QGA32225() | QJA32225() |

See [4] below.

Table 9.121: Interrupt Ratings (kA)

| | FA | FH | FI | QB | QD | QG | QJ [5] | HD/JD | HG/JG | HI/JI | HL/JL |
|-------|----|--|-----|----|----|----|--------|-------|-------|-------|-------|
| 240 V | 25 | 25 (1P 35–100 A), 65 (1P 15–30 A, 2P, 3P) | 200 | 10 | 25 | 65 | 100 | 25 | 65 | 100 | 125 |
| 480 V | 18 | 25 (2, 3P) | | — | — | — | — | 18 | 35 | 65 | 100 |
| 600 V | 14 | 18 (2, 3P) | 100 | — | — | — | — | 14 | 18 | 25 | 50 |

F-frame, see Supplemental Digest Section 3
Q-frame accessories Digest Section 7

Q-frame dimensions Digest Section 7
Q-frame optional lugs Supplemental Digest Section 3

H- and J-frame for I-Line™ Panelboards and Switchboards

Table 9.122: H-frame 150 A Thermal-Magnetic UL Current-Limiting [6] Circuit Breakers (600 Vac, 250 Vdc) With Factory Sealed Trip Unit [7] Suitable for Reverse Connection [7]

(PowerPact HD and HG 2-pole circuit breakers utilize 3" of I-Line mounting space, HJ and HL 2-pole circuit breakers utilize 4.5" of I-Line mounting space, all 3-pole H and J-frame circuit breakers utilize 4.5" of I-Line mounting space.)

| Current Rating @ 40° C | Fixed AC Magnetic Trip | | Cat. No. [8] | Terminal Wire Range |
|--|------------------------|--------|---------------|-----------------------------------|
| | Hold | Trip | | |
| H-frame, 150A 2P, 600 Vac 50/60 Hz, 250 Vdc [9] | | | | |
| 15 A | 350 A | 750 A | H()A26015() | AL150HD 14–3/0 AWG Al or Cu |
| 20 A | 350 A | 750 A | H()A26020() | |
| 25 A | 350 A | 750 A | H()A26025() | |
| 30 A | 350 A | 750 A | H()A26030() | |
| 35 A | 400 A | 850 A | H()A26035() | |
| 40 A | 400 A | 850 A | H()A26040() | |
| 45 A | 400 A | 850 A | H()A26045() | |
| 50 A | 400 A | 850 A | H()A26050() | |
| 60 A | 800 A | 1450 A | H()A26060() | |
| 70 A | 800 A | 1450 A | H()A26070() | |
| 80 A | 800 A | 1450 A | H()A26080() | |
| 90 A | 800 A | 1450 A | H()A26090() | |
| 100 A | 800 A | 1700 A | H()A26100() | |
| 110 A | 900 A | 1700 A | H()A26110() | |
| 125 A | 900 A | 1700 A | H()A26125() | |
| 150 A | 900 A | 1700 A | H()A26150() | |
| H-frame 150A 3P, 600 Vac 50/60 Hz, 250 Vdc | | | | |
| 15 A | 350 A | 750 A | H()A36015 | AL150HD 14–3/0 AWG Al or Cu |
| 20 A | 350 A | 750 A | H()A36020 | |
| 25 A | 350 A | 750 A | H()A36025 | |
| 30 A | 350 A | 750 A | H()A36030 | |
| 35 A | 400 A | 850 A | H()A36035 | |
| 40 A | 400 A | 850 A | H()A36040 | |
| 45 A | 400 A | 850 A | H()A36045 | |
| 50 A | 400 A | 850 A | H()A36050 | |
| 60 A | 800 A | 1450 A | H()A36060 | |
| 70 A | 800 A | 1450 A | H()A36070 | |
| 80 A | 800 A | 1450 A | H()A36080 | |
| 90 A | 800 A | 1450 A | H()A36090 | |
| 100 A | 800 A | 1700 A | H()A36100 | |
| 110 A | 900 A | 1700 A | H()A36110 | |
| 125 A | 900 A | 1700 A | H()A36125 | |
| 150 A | 900 A | 1700 A | H()A36150 | |

[4] Replacement lugs are not available on QB, QD, QG, or QJ circuit breakers. Lugs for QB, QD, QG, or QJ circuit breakers accept one #4 AWG–300 kcmil. No accessories are available for PowerPact Q Frame breakers.

[5] 3-pole QJ circuit breakers are rated at 208Y/120 Vac only.

[6] Circuit breakers with J, L, and R interrupting ratings are UL certified as current limiting.

[7] See Supplemental Digest Section 3 for circuit breakers with field-interchangeable trip units.

[8] To complete catalog number, replace the blank with the appropriate rating (D, G, J, L).

[9] 2 pole circuit breaker catalog numbers are completed by adding the required phase connection number as a suffix see Table 9.128, page 9-48.