

PowerPact L-Frame Molded Case Circuit Breakers (600 A)

A flexible, high performance offer certified to global standards.

- Basic Electronic and MicroLogic trip protection from 250–600 Vac
- 2-, 3- and 4-pole design; wide range of trip units to protect most applications
- High performance UL listed interrupting ratings from 35 kA to 200 kA at 480 Vac
- Standard (80%) or 100% rating
- UL, CSA, NOM, IEC, CCC certified and CE marked for global acceptance



PowerPact L-Frame with MicroLogic™ Trip Unit

Table 7.66: PowerPact L-Frame 600 A, (80% Rated) UL Current-Limiting [26] Circuit Breakers (600 Vac) with Lugs and Factory-Sealed Electronic Trip Units Suitable for Reverse Connection [27]

| Electronic Trip Unit | | Ampere Rating | Instantaneous Adjustment | | Interrupting Cat. No. | J Interrupting Cat. No. |
|----------------------|--|---------------|--------------------------|------|--------------------------|----------------------------|
| Type | Protection | | Low | High | | |
| 2P, 600 Vac 50/60 Hz | | | | | | |
| Basic | Electronic with Fixed Long-time, Adjustable Instantaneous Trip | 250 | 1.5x | 12x | LGL26250 | LJL26250 |
| | | 300 | 1.5x | 12x | LGL26300 | LJL26300 |
| | | 350 | 1.5x | 12x | LGL26350 | LJL26350 |
| | | 400 | 1.5x | 12x | LGL26400 | LJL26400 |
| | | 500 | 1.5x | 11x | LGL26500 | LJL26500 |
| | | 600 | 1.5x | 11x | LGL26600 | LJL26600 |
| 3P, 600 Vac 50/60 Hz | | | | | | |
| Basic | Electronic with Fixed Long-time, Adjustable Instantaneous Trip | 250 | 1.5x | 12x | LGL36250 | LJL36250 |
| | | 300 | 1.5x | 12x | LGL36300 | LJL36300 |
| | | 350 | 1.5x | 12x | LGL36350 | LJL36350 |
| | | 400 | 1.5x | 12x | LGL36400 | LJL36400 |
| | | 500 | 1.5x | 11x | LGL36500 | LJL36500 |
| | | 600 | 1.5x | 11x | LGL36600 | LJL36600 |

Table 7.67: L-Frame 600 A Standard (80% Rated) UL Current-Limiting [26] Circuit Breakers (600 Vac) with Lugs and Factory-Sealed Electronic Trip Units Suitable for Reverse Connection [28][27]

| Electronic Trip Unit | | | Sensor Rating | Interrupting Rating (80% Rated) | | | | |
|-----------------------|----------|----------------|---------------|---------------------------------|--------------|--------------|--------------|-----------------|
| Type | Function | Trip Unit | | G | J [26] | L [26] | R [26] | Terminal |
| 600 Vac, 50/60 Hz, 3P | | | | | | | | |
| MicroLogic Standard | LI | 3.3 [29] | 250 A | LGL36250U31X | LJL36250U31X | LLL36250U31X | LRL36250U31X | AL400L61K3 [30] |
| | | | 400 A | LGL36400U31X | LJL36400U31X | LLL36400U31X | LRL36400U31X | |
| | | | 600 A | LGL36600U31X | LJL36600U31X | LLL36600U31X | LRL36600U31X | |
| MicroLogic Standard | LSI | 3.3S [29] [31] | 250 A | LGL36250U33X | LJL36250U33X | LLL36250U33X | LRL36250U33X | AL400L61K3 [32] |
| | | | 400 A | LGL36400U33X | LJL36400U33X | LLL36400U33X | LRL36400U33X | |
| | | | 600 A | LGL36600U33X | LJL36600U33X | LLL36600U33X | LRL36600U33X | |
| MicroLogic Ammeter | LSI | 5.3A | 400 A | LGL36400U43X | LJL36400U43X | LLL36400U43X | LRL36400U43X | AL600LS52K3 |
| | | | 600 A | LGL36600U43X | LJL36600U43X | LLL36600U43X | LRL36600U43X | |
| MicroLogic Energy | LSI | 5.3E | 400 A | LGL36400U53X | LJL36400U53X | LLL36400U53X | LRL36400U53X | |
| | | | 600 A | LGL36600U53X | LJL36600U53X | LLL36600U53X | LRL36600U53X | |
| MicroLogic Ammeter | LSIG | 6.3A | 400 A | LGL36400U44X | LJL36400U44X | LLL36400U44X | LRL36400U44X | |
| | | | 600 A | LGL36600U44X | LJL36600U44X | LLL36600U44X | LRL36600U44X | |
| MicroLogic Energy | LSIG | 6.3E [33] | 400 A | LGL36400U54X | LJL36400U54X | LLL36400U54X | LRL36400U54X | |
| | | | 600 A | LGL36600U54X | LJL36600U54X | LLL36600U54X | LRL36600U54X | |
| 600 Vac, 50/60 Hz, 4P | | | | | | | | |
| MicroLogic Standard | LI | 3.3 | 250 A | LGL46250U31X | LJL46250U31X | LLL46250U31X | LRL46250U31X | AL400L61K4 |
| | | | 400 A | LGL46400U31X | LJL46400U31X | LLL46400U31X | LRL46400U31X | |
| | | | 600 A | LGL46600U31X | LJL46600U31X | LLL46600U31X | LRL46600U31X | |
| MicroLogic Standard | LSI | 3.3S [31] | 250 A | LGL46250U33X | LJL46250U33X | LLL46250U33X | LRL46250U33X | AL400L61K4 |
| | | | 400 A | LGL46400U33X | LJL46400U33X | LLL46400U33X | LRL46400U33X | |
| | | | 600 A | LGL46600U33X | LJL46600U33X | LLL46600U33X | LRL46600U33X | |
| MicroLogic Ammeter | LSI | 5.3A | 400 A | LGL46400U43X | LJL46400U43X | LLL46400U43X | LRL46400U43X | AL600LS52K4 |
| | | | 600 A | LGL46600U43X | LJL46600U43X | LLL46600U43X | LRL46600U43X | |
| MicroLogic Energy | LSI | 5.3E | 400 A | LGL46400U53X | LJL46400U53X | LLL46400U53X | LRL46400U53X | |
| | | | 600 A | LGL46600U53X | LJL46600U53X | LLL46600U53X | LRL46600U53X | |
| MicroLogic Ammeter | LSIG | 6.3A | 400 A | LGL46400U44X | LJL46400U44X | LLL46400U44X | LRL46400U44X | |
| | | | 600 A | LGL46600U44X | LJL46600U44X | LLL46600U44X | LRL46600U44X | |
| MicroLogic Energy | LSIG | 6.3E | 400 A | LGL46400U54X | LJL46400U54X | LLL46400U54X | LRL46400U54X | |
| | | | 600 A | LGL46600U54X | LJL46600U54X | LLL46600U54X | LRL46600U54X | |

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

[27] For applications requiring communications see page 7-64.

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

[29] 3P circuit breakers with this trip unit can be used for 2P applications.

[30] AL600LS52K3 terminal wire range is (2) 2/0 AWG 500 kcmil Al/Cu

[31] Fixed ST and LT delays.

[32] AL400L61K3 terminal wire ranges are (1) 2 AWG–600 kcmil Cu or (1) 2 AWG–500 kcmil Al.

[33] 3-pole circuit breakers can be used for 2-pole applications. (For such instances, MicroLogic 6.2 Ammeter and Energy trip units can be used for ground fault protection. Additional metering capabilities are not guaranteed when using MicroLogic Ammeter and Energy trip units for this type of application.)