

PowerPact™ Mission Critical Circuit Breakers

PowerPact D-Frame Mission Critical Circuit Breakers

When the D-frame Mission Critical circuit breaker is used as a main circuit breaker with QO branch circuit breakers, the D-frame MC will remain closed during any fault that occurs downstream of the QO circuit breaker up to 30kA at 208Y/120 Vac.

Ratings:

- UL 489 Listed
- CSA Certified
- Voltage: 208Y/120 V
- Handle ratings: 60–600 A
- AIR: 65 kA

Available Configurations:

- Four sizes: 150 A, 250 A, 400 A, and 600 A
- Main circuit breaker in NQ panelboards
- Unit mount for OEM users
- Plug-in base for OEM users
- Drawout base for OEM users

Table 11.46: D-Frame Mission Critical Circuit Breakers

Circuit Breaker Cat. No. [22]	Continuous Current Rating	Terminal	
		Cat. No.	Wire Range (AWG/kcmil)
DJL32150W	150 A	32508	#2-600 Cu or #2-500 Al
DJL32250W	250 A		
DJL32400W	400 A		
DJL32600W	600 A	32510	(2) 2/0-350 Cu or (2) 2/0-500Al

Table 11.45: D-Frame Termination Options

Frame	Termination Letter	Termination Option
D-Frame	F	No Lugs (Includes terminal nut kit on both ends)
	L	Lugs both ends
	M	Lugs ON end Terminal Nut Kit Off end
	P	Lugs OFF end Terminal Nut Kit On end
	N	Plug-in
	D	Drawout
	S	Rear Connected

For factory-installed termination, place termination letter in the third block of the circuit breaker catalog number.
D G L 3 6 4 0 0 E 2 0

Accessories see page 11-33
Optional Lugs see page 3-25
Dimensions see page 3-28



LA/LHL MC
For Mission Critical Power Loads
Available in 200, 225, 250, and 400 A
@ 480 Vac

Table 11.47: L-Frame Interrupting Table

	LAL	LHL
240 Vac	42 kA	65 kA
480 Vac	30 kA	35 kA

Accessories see page 11-37
Optional Lugs see page 3-25
Dimensions see page 3-28

LA Mission Critical Circuit Breakers

The LA High Magnetic Withstand MC Circuit Breakers are designed to trip at a higher magnetic trip level (18–20 times handle rating) than typical molded case circuit breakers (MCCBs) (which trip at 5–10 times the handle rating).

The high magnetic withstand value of these LA circuit breakers allow the downstream branch circuit breaker to clear the fault.

Table 11.48: L-Frame—400 A, Thermal-Magnetic, High Magnetic Withstand Circuit Breakers For Mission Critical Loads

Ampere Rating	AC Magnetic Level Factory Set		Circuit Breaker		Terminal	
	Hold	Trip	Standard Interrupting Cat. No.	High Interrupting Cat. No.	Cat. No.	Wire Range
LA/LH MC Circuit Breaker, 3P, 480 Vac						
200 A	3400 A	4000 A	LAL34200MC	LHL34200MC	AL250-LAMC	(1) 250–350 kcmil Al (1) 3/0 AWG–350 kcmil Cu
225 A	3825 A	4500 A	LAL34225MC	LHL34225MC		
250 A	4250 A	5000 A	LAL34250MC	LHL34250MC	AL400LA	(1) 1 AWG–600 kcmil Al or (2) 1 AWG–250 kcmil Al
400 A	6000 A	7200 A	LAL34400MC	LHL34400MC		

[22] D-Frame circuit breakers 400 A and below are 100% rated.

Mechanical Lugs

Table 11.101: Mechanical Lug Kit Information

Circuit Breaker Application				(Number of Wires Per Lug) Wire Range[4]	Cat. No.	Lugs Per Kit	Availability
Standard	Ampere Rating	Optional	Ampere Rating				
Al Lugs for Use with Al or Cu Wire							
FI	15–30 A	FI	35–100 A	(1) 14–4 AWG Cu or (1) 12–4 AWG Al	AL50FA	3	—
FI	35–100 A	FI	15–30 A	(1) 14–1/0 AWG Cu or (1) 12–1/0 AWG Al	AL100FA	3	—
KI	110–175 A	—	—	(1) 4 AWG–350 kcmil	AL250KA	3	—
KI	200–250 A	KI	110–175 A	(1) 1/0 AWG–350 kcmil	AL250KI	3	—
LE, LX, LXI	100–250 A	LI, LE, LX, LXI	300–600 A	(2) 1 AWG–350 kcmil	AL600LI35	1	—
LI, LE, LX, LXI	300–600 A	LE, LX, LXI	100–250 A	(2) 4/0 AWG–500 kcmil	AL600LI5	1	—
—	—	LC, LI, LE, LX, LXI	—	(1) 500–750 kcmil	AL600LI7	1	—
—	—	LC, LI, LE, LX, LXI	—	(1) 500–750 kcmil	AL600LI7	1	—
MA, MH	300–1000 A	—	—	(3) 3/0 AWG–500 kcmil	AL900MA	1	—
—	—	MA, MH	300–1000 A	(2) 500–750 kcmil	AL800MA7	1	—
—	—	MA, MH	300–1200 A	(4) 1/0 AWG–350 kcmil	AL1000MA	1	—
ME, MX	100–250 A	—	—	(1) 6 AWG–350 kcmil	AL250ME	3	Not Available
—	—	ME, MX	250–400 A	(1) 350–750 kcmil	AL400ME7	1	Not Available
—	—	ME, MX	100–800 A	(2) 500–750 kcmil	AL800MA7	1	—
ME, MX	300–800 A	ME, MX	100–250 A	(3) 3/0 AWG–500 kcmil	AL900MA	1	—
—	—	ME, MX	300–1200 A	(4) 1/0 AWG–350 kcmil	AL1000MA	1	—
NA, NC, NE, NX	600–1200 A	—	—	(4) 3/0 AWG–600 kcmil	AL1200NE6	1	Not Available
—	—	PAF, PHF, PEF, PXF, PCF	600–2500 A	(1) 1/0 AWG–750 kcmil	AL2500PA	2	—
Cu Lugs for Use with Cu Wire Only [5]							
—	—	FI	15–100 A	(1) 14–1 AWG Cu	CU100FA	3	—
—	—	FI	15–100 A	(1) 14–1 AWG Cu	CU100FA	3	—
—	—	KI	110–250 A	(1) 4 AWG–250 kcmil Cu	CU250KA	3	—
—	—	LI, LE, LX, LXI	—	(2) 1 AWG–350 kcmil Cu	CU600LI35	1	—
—	—	LI, LE, LX, LXI	—	(2) 4/0 AWG–500 kcmil Cu	CU600LI5	1	—
—	—	LI, LE, LX, LXI	—	(1) 500–750 kcmil Cu	CU600LI7	1	—
—	—	MA, MH	300–1000 A	(3) 3/0 AWG–500 kcmil Cu	CU1000MA	1	—
—	—	ME, MX	125–250 A	(1) 4 AWG–250 kcmil Cu	CU250ME	3	Not Available
—	—	ME, MX	100–800 A	(3) 3/0 AWG–500 kcmil Cu	CU1000MA	1	—
—	—	NA, NC, NE, NX	600–1200 A	(4) 3/0 AWG–600 kcmil Cu	CU1200NE6	1	Not Available

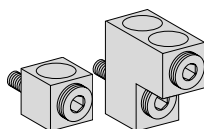


Table 11.100: Terminal Shields and Phase Barriers

Used With	Description	Cat. No.	Qty Per Kit
D-Frame	Terminal Shield (3P)	PDC5DG2 PDC12DG2	36965 1

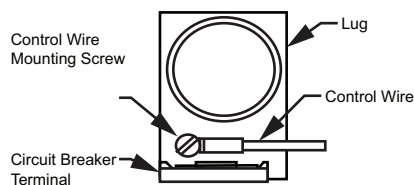


Table 11.102: Mechanical Lug Kits for D-Frame Circuit Breakers

Description	Poles	Cat. No.	
		400 A Lugs	600 A Lugs
Field-Installable Lug Kit, Terminal Cover Included	3	32508	32510
Voltage Takeoffs (set of two)		29348	29348
Wire Range		(1) 2 AWG–600 kcmil stranded CU cable (1) 2 AWG–500 kcmil stranded AL cable	(2) 2/0 AWG–350 kcmil stranded CU cable (2) 2/0 AWG–500 kcmil stranded AL cable

Control Wire Tap Lugs

Control wire tap lugs are used in applications requiring connection to a small wire (22–14 AWG) for control circuits. This is accomplished by crimping the wire to a standard wire crimp terminal (not included) and fastening the terminal to the circuit breaker lug.

Note: To order as a factory-installed device on FI, KI, LC, LI, LXI, LX or LC circuit breakers, add suffix number 8041 to circuit breaker catalog number, e.g., KIL362258041.

Table 11.103: Control Wire Terminations for Circuit Breakers

Circuit Breaker	Control Wire Termination Kits	
	Cat. No.	Standard Package Quantity
FI	FAT [6]	1
KI	AL250KIT	1
LC, LI, LXI, LX, LE	AL600LI35T	1
	AL600LI5T	1
MA, MH, MX, ME	AL900MAT	1
	AL1000MAT	1
NA, NC, NX, NE	AL1200NE6T	1

[4] Unless otherwise specified, wire sizes apply to both aluminum and copper conductors.

[5] Use suffix 8002 for factory-installed Cu lugs.

[6] Use fully-insulated 0.250 inch slip-on connectors.