



Selection Information

Molded Case Circuit Breakers

Class 500, 600, 800

DE3 CIRCUIT BREAKERS

		PowerPact™ 150 A H-Frame					PowerPact 250 A J-Frame				
		 <p>New! Electronic Trip Version</p>					 <p>New! Electronic Trip Version</p>				
Circuit Breaker Type		HD	HG	HJ	HL	HR	JD	JG	JJ	JL	JR
Number of Poles		2, 3	2, 3	2, 3▲	2, 3▲	3	2, 3▲	2, 3▲	2, 3▲	2, 3▲	3
Current Range		15–150 A	15–150 A	15–150 A	15–150 A	15–150 A	70–250 A■	70–250 A■	70–250 A■	70–250 A■	70–250 A■
Interrupting Ratings											
UL/CSA/NOM Rating (kA RMS) (50/60 Hz)	240 Vac	25	65	100	125	200	25	65	100	125	200
	480Y/277 Vac	18	35	65	100	200	18	35	65	100	200
	480 Vac	18	35	65	100	200	18	35	65	100	200
	600Y/347 Vac	14	18	25	50	100	14	18	25	50	100
	600 Vac	14	18	25	50	100	14	18	25	50	100
DC Ratings	250 Vdc◆	20	20	20	20	—	20	20	20	20	—
	500 Vdc◆	—	—	—	—	—	—	20	—	—	—
IEC Rating (kA RMS) Icu/Ics★	240 Vac	25/25	65/65	100/100	125/125	125/125	25/25	65/65	100/100	125/125	125/125
	415 Vac	18/18	35/35	65/65	100/100	100/100	18/18	35/35	65/65	100/100	100/100
Special Ratings											
CCC		X	X	X	X	X	X	X	X	X	X
Fed. Specs W-C-375B/GEN		X	X	X	X	X	X	X	X	X	X
HACR (2P, 3P)		X	X	X	X	X	X	X	X	X	X
Connections/Terminations											
Unit Mount		X	X	X	X	X	X	X	X	X	X
I-Line™		X	X	X	X	X	X	X	X	X	X
Rear Connection		X▼	X▼	X	X	X	X	X	X	X	X
Drawout		X▼	X▼	X	X	X	X	X	X	X	X
Optional Lugs		X▼	X▼	X	X	X	X	X	X	X	X
Accessories and Modifications											
Shunt Trip		X	X	X	X	X	X	X	X	X	X
Undervoltage Trip		X	X	X	X	X	X	X	X	X	X
Auxiliary Switches		X	X	X	X	X	X	X	X	X	X
Alarm Switch		X	X	X	X	X	X	X	X	X	X
Motor Operator		X▼	X▼	X	X	X	X	X	X	X	X
Handle Operators		X▼	X▼	X	X	X	X	X	X	X	X
Mechanical Interlocks (3P)		X	X	X	X	X	X	X	X	X	X
Handle Padlock Attachment		X▼	X▼	X	X	X	X	X	X	X	X
Cylinder Lock (3P)		—	—	—	—	—	—	—	—	—	—
Optional GF Protection		—	—	—	—	—	—	—	—	—	—
Trip System Type											
Thermal-magnetic		X	X	X	X	—	X	X	X	X	X
Instantaneous-only (MCP)		—	—	X△	X△	X△	—	X△	X△	X	X
Molded Case Switch (Automatic)		X	X	X	X	X	X	X	X	X	X
Electronic		X△	X△	X△	X△	X△	X△	X△	X△	X△	X△
Enclosures (Pages DE3-56–DE3-58)											
General Purpose (NEMA 1)		X	X	X	X	—	X	X	X	—	—
Raintight (NEMA 3R)		X	X	X	X	—	X	X	X	—	—
Dust-tight (NEMA 12)		X	X	X	X	—	X	X	X	—	—
Watertight (NEMA 4, 4X, 5)		X	X	X	X	—	X	X	X	—	—
Explosion Proof (NEMA 7, 9)		—	—	—	—	—	—	—	—	—	—
Dimensions (3P Unit Mount) in. (mm)	Height	6.4 (163)					7.5 (191)				
	Width	4.1 (104)					4.1 (104)				
	Depth	3.4 (86)					3.4 (86)				
Pages (Unit Mount)/(I-Line)		Pages DE3-22, DE3-23, DE3-29, DE3-34/Section DE5					Pages DE3-22, DE3-23, DE3-29, DE3-34, DE3-35/Section DE5				

Note: All circuit breakers on this chart are UL Listed and CSA Certified unless otherwise noted.

- ▲ 2P in a 3P module.
- 70–250 A with electronic trip system
- ◆ Not available with electronic trip units
- ★ Dual CSA/UL and IEC ratings and CE markings on circuit breakers.
- ▼ Not available in HD and HG 2P rating (2P module).
- △ 3P only.

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 availability 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 field-installable accessories make product selection, installation and maintenance easier than ever.
- **Common Design Features:** Mounting holes, door trim, and handle accessories.

H-Frame 150 A	J-Frame 250 A	Q-Frame 250 A	L-Frame 600 A	M-Frame 800 A	P-Frame 1200 A	R-Frame 3000 A
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New! Electronic Trip Version



New!

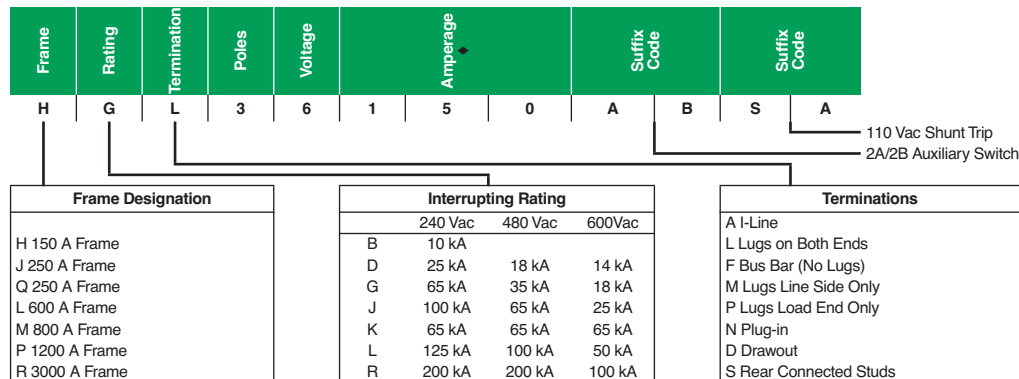


PowerPact Interrupting Ratings

Voltage	Interrupting Rating						
	B	D	G	J	K	L	R
240 Vac	10 kA	25 kA	65 kA	100 kA	65 kA	125 kA	200 kA
480 Vac		18 kA	35 kA	65 kA	65 kA ▲	100 kA	200 kA
600 Vac		14 kA	18 kA	25 kA	65 kA ▲	50 kA ■	100 kA

- ▲ P-frame K interrupting is 50 kA at 480 and 600 Vac.
- P-frame L interrupting is 25 kA at 600 Vac.

Common Catalog Numbering System



♦ For amperage of M-, P- or R-frame circuit breakers, add a zero to the three amperage digits; for example, 120 = 1200 A.

Description	Page
H- and J-Frame Circuit Breakers	DE3-22
H- and J-Frame Circuit Breakers	DE3-23
Q-Frame Circuit Breakers	DE3-24
L-Frame Circuit Breakers	DE3-25
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R-Frame Circuit Breakers	DE3-28
PowerPact™ H- and J-Frame Electronic Motor Circuit Protectors	DE3-29
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500 Vdc Circuit Breakers	DE3-35
Mission Critical Circuit Breakers	DE3-37
PowerPact™ Circuit Breaker Accessories	DE3-39
Motor Operators and Rotary Handles	DE3-40
Locks, Installation Accessories, and Rear Connections	DE3-41
Mechanical Lugs	DE3-41
Compression Lugs and Power Distribution Connectors (PDC)	DE3-43
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Plug-In and Drawout Mountings	DE3-45
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PowerPact™ Circuit Breakers

H- and J-Frame Circuit Breakers

Class 611 / Refer to Catalog 0611CT1001



HD and HG 2 Pole Thermal-Magnetic Trip Unit



H-Frame Thermal-Magnetic Trip Unit

DE3 CIRCUIT BREAKERS

H-frame 150 A Thermal-magnetic CSA/UL Current-Limiting ▼ Circuit Breakers (600 Vac) with Factory Sealed Trip Unit Suitable for Reverse Connection ■▲

Current Rating @ 40° C	AC Magnetic Trip Setting		D Interrupting		G Interrupting		J Interrupting ▼		L Interrupting ▼		Terminal Wire Range
	Hold	Trip	Catalogue Number ▲	Price	Catalogue Number ▲	Price	Catalogue Number ▲	Price	Catalogue Number ▲	Price	
2-pole, 600 Vac 50/60 Hz											
15	350	750	HDL26015		HGL26015		HJL26015		HLL26015		AL150HD #14-#3/0 AWG Cu or Al
20	350	750	HDL26020		HGL26020		HJL26020		HLL26020		
25	350	750	HDL26025		HGL26025		HJL26025		HLL26025		
30	350	750	HDL26030		HGL26030		HJL26030		HLL26030		
35	400	850	HDL26035		HGL26035		HJL26035		HLL26035		
40	400	850	HDL26040		HGL26040		HJL26040		HLL26040		
45	400	850	HDL26045		HGL26045		HJL26045		HLL26045		
50	400	850	HDL26050		HGL26050		HJL26050		HLL26050		
60	800	1450	HDL26060		HGL26060		HJL26060		HLL26060		
70	800	1450	HDL26070		HGL26070		HJL26070		HLL26070		
80	800	1450	HDL26080		HGL26080		HJL26080		HLL26080		
90	800	1450	HDL26090		HGL26090		HJL26090		HLL26090		
100	900	1700	HDL26100		HGL26100		HJL26100		HLL26100		
110	900	1700	HDL26110		HGL26110		HJL26110		HLL26110		
125	900	1700	HDL26125		HGL26125		HJL26125		HLL26125		
150	900	1700	HDL26150		HGL26150		HJL26150		HLL26150		

3-pole, 600 Vac 50/60 Hz											
15	350	750	HDL36015		HGL36015		HJL36015		HLL36015		AL150HD #14-#3/0 AWG Cu or Al
20	350	750	HDL36020		HGL36020		HJL36020		HLL36020		
25	350	750	HDL36025		HGL36025		HJL36025		HLL36025		
30	350	750	HDL36030		HGL36030		HJL36030		HLL36030		
35	400	850	HDL36035		HGL36035		HJL36035		HLL36035		
40	400	850	HDL36040		HGL36040		HJL36040		HLL36040		
45	400	850	HDL36045		HGL36045		HJL36045		HLL36045		
50	400	850	HDL36050		HGL36050		HJL36050		HLL36050		
60	800	1450	HDL36060		HGL36060		HJL36060		HLL36060		
70	800	1450	HDL36070		HGL36070		HJL36070		HLL36070		
80	800	1450	HDL36080		HGL36080		HJL36080		HLL36080		
90	800	1450	HDL36090		HGL36090		HJL36090		HLL36090		
100	900	1700	HDL36100		HGL36100		HJL36100		HLL36100		
110	900	1700	HDL36110		HGL36110		HJL36110		HLL36110		
125	900	1700	HDL36125		HGL36125		HJL36125		HLL36125		
150	900	1700	HDL36150		HGL36150		HJL36150		HLL36150		

J-frame 250 A Thermal-magnetic (600 Vac) Factory Sealed Trip Unit Suitable for Reverse Connection ■▲

Current Rating @ 40° C	AC Magnetic Trip Setting		D Interrupting		G Interrupting		J Interrupting ▼		L Interrupting ▼		R Interrupting ▼		Terminal Wire Range
	Low	High	Catalogue Number ▲	Price	Catalogue Number ▲	Price	Catalogue Number ▲	Price	Catalogue Number ▲	Price	Catalogue Number ▲	Price	
2-pole, 600 Vac 50/60 Hz													
150	750	1500	JDL26150		JGL26150		JJL26150		JLL26150				AL175JD #4-4/0 AWG Al or Cu
175	875	1750	JDL26175		JGL26175		JJL26175		JLL26175				
200	1000	2000	JDL26200		JGL26200		JJL26200		JLL26200				AL250JD #3/0-350 kcmil Al or Cu
225	1125	2250	JDL26225		JGL26225		JJL26225		JLL26225				
250	1250	2500	JDL26250		JGL26250		JJL26250		JLL26250				
3-pole, 600 Vac 50/60 Hz													
150	750	1500	JDL36150		JGL36150		JJL36150		JLL36150		JRL36150		AL175JD #4-4/0 AWG Al or Cu
175	875	1750	JDL36175		JGL36175		JJL36175		JLL36175		JRL36175		
200	1000	2000	JDL36200		JGL36200		JJL36200		JLL36200		JRL36200		AL250JD #3/0-350 kcmil Al or Cu
225	1125	2250	JDL36225		JGL36225		JJL36225		JLL36225		JRL36225		
250	1250	2500	JDL36250		JGL36250		JJL36250		JLL36250		JRL36250		

- See catalogue for circuit breakers with field interchangeable trip units.
- ▲ For 100% rated circuit breakers, add a "C" in the 9th character place (for example, HDL36015C or JDL26150C). 100% rated circuit breakers have copper lugs and can only be used with copper wire.
- ▼ Circuit breakers with J, L, and R interrupting ratings are CSA/UL certified as current limiting.

H- and J-frame Termination Options

Interrupting Ratings (kA)

Voltage	D	G	J	L	R
240 V	25	65	100	125	200
480 V	18	35	65	100	200
600 V	14	18	25	50	100

- A-I-Line (see Section 5)
- F = No Lugs (includes terminal nut kit)
- 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 ♦



Plug-in



Drawout



Rear Connected



I-Line®

♦ For N, D, and S details see page DE3-45, DE3-41

Accessories - DE3-39
Dimensions - DE3-55
Enclosures - DE3-56

Dimensions and Shipping Weights Molded Case Circuit Breakers

Figure 25

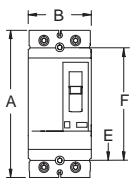


Figure 26

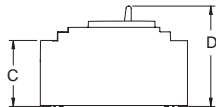
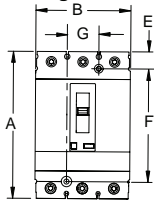


Figure 27

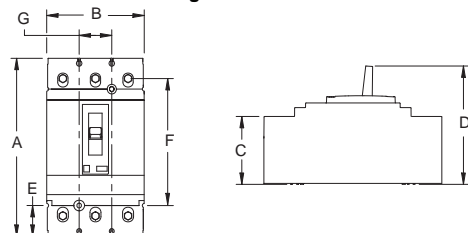


Figure 28

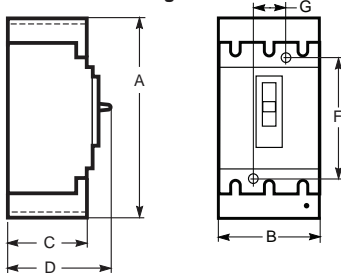


Figure 29

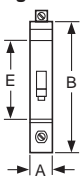


Figure 30

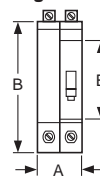


Figure 31

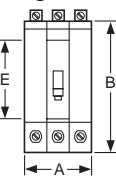


Figure 32

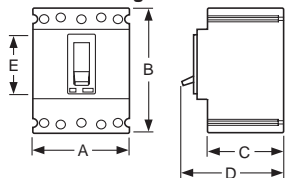


Figure 33

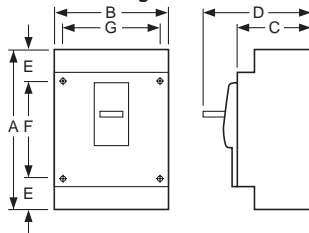
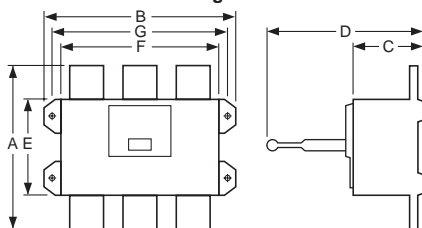


Figure 34



HD, HG, HJ, HL, HR, JD, JG, JJ, JL, JR, LG, LJ, LL, and LR Circuit Breakers

Circuit Breaker Cat. No. Prefix	No. of Poles	Fig. No.	Dimensions — Inches						
			A	B	C	D	E	F	G
HD, HG, HJ*, HL*, HR	2	25	6.40	2.74	2.87	4.36	0.74	4.92	—
JD*, JG*, JJ*, JL*, JR	3	26	6.40	4.12	2.87	4.36	0.74	4.92	1.38
JD*, JG*, JJ*, JL*, JR	3	27	7.52	4.12	2.87	5.00	1.30	4.92	1.38
LG, LJ, LL, LR	3	28	13.38	5.51	3.75	6.61	2.22	8.93	1.77

* - The HJ, HL and the J-Frame 2P breakers are 3P modules

ED, EG and EJ Circuit Breakers

Circuit Breaker Catalogue No. Prefix	No. of Poles	Fig. No.	Dimensions — Inches				
			A	B	C	D	E
ED, EG, EJ	1	29	0.98	5.66	3.09	4.05	3.32
	2	30	1.96	5.66	3.09	4.05	3.32
	3	30	2.94	5.66	3.09	4.05	3.32
GJ	3	32	3.54	4.72	2.76	3.94	2.20

MG, MJ, PG, PJ, PL, RG, RJ and RL Circuit Breakers

Circuit Breaker Cat. No. Prefix	No. of Poles	Fig. No.	Dimensions — Inches						
			A	B	C	D	E	F	G
MG, MJ (800 A and below)	2, 3	33	12.86	8.27	5.77	8.05	2.49	7.87	7.83
PG, PJ, PK, PL (1000–1200 A)	2, 3	33	16.16	8.27	5.77	8.05	4.19	7.87	7.83
RG, RJ, RL	2, 3	34	16.24	16.54	6.63	14.49	8.73	14.25	15.35

Shipping Weights▲

Frame Size	Approx. Shipping Weight (Lbs.)	Frame Size	Approx. Shipping Weight (Lbs.)
HD, HG, HJ, HL 2P	4	JD, JG, JJ, JL, JR	5
HD, HG, HJ, HL, HR 3P	5	LD, LG, LJ, LL, LR	14
ED, EG, EJ 1P	2	MG, MJ	29
ED, EG, EJ 2P	3	PG, PJ, PK, PL	32
ED, EG, EJ 3P	4	RG, RJ, RK, RL (Without RLTB)	52

▲ All weights are for 3P circuit breakers unless otherwise noted.