

	100 A F-Frame		PowerPact 250 A J-Frame				PowerPact 250 A Q-Frame				
Circuit Breaker Type	FI	FY	JD	JG	JJ	JL	QB	QD	QG	QJ	
Number of Poles	2, 3	1	2,3▲	2,3▲	2,3▲	2,3▲	2, 3	2, 3	2, 3	2, 3	
Current Range	20–100	15–30	150–250 A	150–250 A	150–250 A	150–250 A	70–250■	70–250■	70–250■	70–250■	
Interrupting Ratings											
UL/CSA/NOM Rating (kA RMS) (50/60 Hz)	240 Vac	200	14	25	65	100	125	10	25	65	100
	480Y/277 Vac	200	14	18	35	65	100	—	—	—	—
	480 Vac	200	—	18	35	65	100	—	—	—	—
	600Y/347 Vac	100	—	14	18	25	50	—	—	—	—
DC Ratings	600 Vac	100	—	14	18	25	50	—	—	—	—
	250 Vdc	—	—	20	20	20	20	—	—	—	—
IEC Rating (kA RMS) Icu/Ics★	500 Vdc◆	—	—	—	20	—	—	—	—	—	—
	240 Vac	—	—	25/25	65/65	100/100	125/125	10/5	10/5	10/5	10/5
IEC 50/60 Hz	415 Vac	6/1.5	—	18/18	35/35	65/65	100/100	10/5	10/5	10/5	10/5
	For additional IEC ratings, see the Supplemental Digest.										
Special Ratings											
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	—
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	X
Rear Connection	—	—	X	X	X	X	—	—	—	—	—
Drawout	—	—	X	X	X	X	—	—	—	—	—
Optional Lugs	X	—	X	X	X	X	—	—	—	—	—
Accessories and Modifications											
Shunt Trip	X△	—	X	X	X	X	—	—	—	—	—
Undervoltage Trip	X△	—	X	X	X	X	—	—	—	—	—
Auxiliary Switches	X△	—	X	X	X	X	—	—	—	—	—
Alarm Switch	X△	—	X	X	X	X	—	—	—	—	—
Motor Operator	X	—	X	X	X	X	—	—	—	—	—
Handle Operators	—	—	X	X	X	X	—	—	—	—	—
Mechanical Interlocks (3P)	—	—	X	X	X	X	X	X	X	X	X
Handle Padlock Attachment	X	X	X	X	X	X	X	X	X	X	X
Cylinder Lock (3P△)	—	—	—	—	—	—	—	—	—	—	—
Optional GF Protection▼	X	—	—	—	—	—	—	—	—	—	—
Trip System Type											
Thermal-magnetic	X	X	X	X	X	X	X	X	X	X	X
Instantaneous-only (MCP)	—	—	—	X□	X□	—	—	—	—	—	—
Molded Case Switch (Automatic)	—	—	X	X	X	X	X	X	X	—	—
Electronic	—	—	—	—	—	—	—	—	—	—	—
Enclosures (Pages 7-56–7-58)											
General Purpose (NEMA 1)	X	—	X	X	X	—	X	X	X	X	X
Raintight (NEMA 3R)	X	—	X	X	X	—	X	X	X	X	X
Dust-tight (NEMA 12)	X	—	X	X	X	—	—	—	—	—	—
Watertight (NEMA 4, 4X, 5)	X	—	X	X	X	—	—	—	—	—	—
Explosion Proof (NEMA 7, 9)	—	—	—	—	—	—	—	—	—	—	—
Dimensions (3P Unit Mount) in. (mm)	Height	8 (203)		7.5 (191)				6.47 (164)			
	Width	4.5 (114)		4.1 (104)				4.5 (114)			
	Depth	4.75 (121)		3.4 (86)				3.93 (100)			
Pages (Unit Mount)/(I-Line)	Pages 7-49/9-24		Pages 7-22, 7-23, 7-28, 7-33, 7-34/9-25				Pages 7-24/9-24				

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

- ▲ 2P in a 3P module
- I-Line Q-frame circuit breakers are available 70–225 A only. 250 A Q-frame unit-mount circuit breakers are limited to Cu conductors only.
- ◆ Ungrounded UPS systems only. See page 7-34. Special DC J-Frame only.
- ★ Dual UL and IEC ratings and CE markings on circuit breakers. For additional IEC ratings, see the Supplemental Digest.
- ▼ Requires factory-installed "G" shunt trip and 3P module.
- △ Factory-installed option only.
- 3P only.

The PowerPact Advantage

- **Proven Performance:** Industry-leading circuit breaker innovation and protection for heavy-duty commercial and industrial applications.
- **Flexible:** Full range of 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



Table 7.35: PowerPact Interrupting Ratings

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

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

Table 7.36: Common Catalog Numbering System

Frame	Rating	Termination	Poles	Voltage	Amperage			Suffix Code		Suffix Code	
					1	5	0	A	B	S	A
H	G	L	3	6	1	5	0	A	B	S	A

Frame Designation	Interrupting Rating	Terminations
G 100A Frame	240 Vac 10 kA	A I-Line
H 150 A Frame	480 Vac 25 kA	L Lugs on Both Ends
J 250 A Frame	600 Vac 18 kA	F Bus Bar (No Lugs)
Q 250 A Frame	18 kA	M Lugs Line Side Only
D 600 A Frame	35 kA	P Lugs Load End Only
M 800 A Frame	100 kA 65 kA	N Plug-in
P 1200 A Frame	65 kA 65 kA	D Drawout
R 3000 A Frame	125 kA 100 kA	S Rear Connected Studs

■ 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	7-22
H- and J-Frame Circuit Breakers	7-23
G- and Q-Frame Circuit Breakers	7-24
D- and M-Frame Circuit Breakers	7-25
P-Frame Circuit Breakers	7-26
R-Frame Circuit Breakers	7-27
PowerPact® H- and J-Frame Electronic Motor Circuit Protectors	7-28
Mag-Gard® Motor Circuit Protectors (MCP)	7-30
Automatic Switches	7-33
500 Vdc Circuit Breakers	7-34
Mission Critical Circuit Breakers	7-35
PowerPact® Circuit Breaker Accessories	7-36
Motor Operators and Rotary Handles	7-37
Locks, Installation Accessories, and Rear Connections	7-38
Mechanical Lugs	7-38
Compression Lugs and Power Distribution Connectors (PDC)	7-40
Terminal Nuts, Terminal Pads, Terminal Shields and Accessories	7-41
Plug-In and Drawout Mountings	7-42
Micrologic® Electronic Trip Units	7-43
Micrologic Trip Unit Accessories	7-44

Table 7.37: H-Frame 150 A and J-Frame 250 A Thermal-Magnetic UL Current-Limiting Circuit Breakers (600 Vac, 250 Vdc) With Factory Sealed Trip Unit Suitable for Reverse Connection

Current Rating @ 40°C	Fixed AC Magnetic Trip		Cat. No. ■◆	Interrupting Rating (2nd Letter of Catalog Number)								Terminal Wire Range
				D		G		J▼		L▼		
				\$ Price								
Hold	Trip		80% Rated	100% Rated	80% Rated	100% Rated	80% Rated	100% Rated	80% Rated	100% Rated		
H-Frame, 150A 2P, 600 Vac 50/60 Hz, 250 Vdc												
15 A	350 A	750 A	H(L)26015(C)	870.00	1044.00	1269.00	1523.00	1559.00	1871.00	2364.00	2837.00	AL150HD 14-3/0 AWG Al or Cu
20 A	350 A	750 A	H(L)26020(C)	870.00	1044.00	1269.00	1523.00	1559.00	1871.00	2364.00	2837.00	
25 A	350 A	750 A	H(L)26025(C)	870.00	1044.00	1269.00	1523.00	1559.00	1871.00	2364.00	2837.00	
30 A	350 A	750 A	H(L)26030(C)	870.00	1044.00	1269.00	1523.00	1559.00	1871.00	2364.00	2837.00	
35 A	400 A	850 A	H(L)26035(C)	870.00	1044.00	1269.00	1523.00	1559.00	1871.00	2364.00	2837.00	
40 A	400 A	850 A	H(L)26040(C)	870.00	1044.00	1269.00	1523.00	1559.00	1871.00	2364.00	2837.00	
45 A	400 A	850 A	H(L)26045(C)	870.00	1044.00	1269.00	1523.00	1559.00	1871.00	2364.00	2837.00	
50 A	400 A	850 A	H(L)26050(C)	870.00	1044.00	1269.00	1523.00	1559.00	1871.00	2364.00	2837.00	
60 A	800 A	1450 A	H(L)26060(C)	870.00	1044.00	1269.00	1523.00	1559.00	1871.00	2364.00	2837.00	
70 A	800 A	1450 A	H(L)26070(C)	1062.00	1274.00	1497.00	1797.00	1721.00	2066.00	2613.00	3137.00	
80 A	800 A	1450 A	H(L)26080(C)	1062.00	1274.00	1497.00	1797.00	1721.00	2066.00	2613.00	3137.00	
90 A	800 A	1450 A	H(L)26090(C)	1062.00	1274.00	1497.00	1797.00	1721.00	2066.00	2613.00	3137.00	
100 A	900 A	1700 A	H(L)26100(C)	1062.00	1274.00	1497.00	1797.00	1721.00	2066.00	2613.00	3137.00	
110 A	900 A	1700 A	H(L)26110(C)	2072.00	2486.00	3059.00	3671.00	4449.00	5339.00	5534.00	6641.00	
125 A	900 A	1700 A	H(L)26125(C)	2072.00	2486.00	3059.00	3671.00	4449.00	5339.00	5534.00	6641.00	
150 A	900 A	1700 A	H(L)26150(C)	2072.00	2486.00	3059.00	3671.00	4449.00	5339.00	5534.00	6641.00	
H-Frame 150A 3P, 600 Vac 50/60 Hz, 250 Vdc												
15 A	350 A	750 A	H(L)36015(C)	1088.00	1305.00	1493.00	1791.00	1949.00	2339.00	2849.00	3419.00	AL150HD 14-3/0 AWG Al or Cu
20 A	350 A	750 A	H(L)36020(C)	1088.00	1305.00	1493.00	1791.00	1949.00	2339.00	2849.00	3419.00	
25 A	350 A	750 A	H(L)36025(C)	1088.00	1305.00	1493.00	1791.00	1949.00	2339.00	2849.00	3419.00	
30 A	350 A	750 A	H(L)36030(C)	1088.00	1305.00	1493.00	1791.00	1949.00	2339.00	2849.00	3419.00	
35 A	400 A	850 A	H(L)36035(C)	1088.00	1305.00	1493.00	1791.00	1949.00	2339.00	2849.00	3419.00	
40 A	400 A	850 A	H(L)36040(C)	1088.00	1305.00	1493.00	1791.00	1949.00	2339.00	2849.00	3419.00	
45 A	400 A	850 A	H(L)36045(C)	1088.00	1305.00	1493.00	1791.00	1949.00	2339.00	2849.00	3419.00	
50 A	400 A	850 A	H(L)36050(C)	1088.00	1305.00	1493.00	1791.00	1949.00	2339.00	2849.00	3419.00	
60 A	800 A	1450 A	H(L)36060(C)	1088.00	1305.00	1493.00	1791.00	1949.00	2339.00	2849.00	3419.00	
70 A	800 A	1450 A	H(L)36070(C)	1328.00	1592.00	1701.00	2042.00	2099.00	2519.00	3149.00	3779.00	
80 A	800 A	1450 A	H(L)36080(C)	1328.00	1592.00	1701.00	2042.00	2099.00	2519.00	3149.00	3779.00	
90 A	800 A	1450 A	H(L)36090(C)	1328.00	1592.00	1701.00	2042.00	2099.00	2519.00	3149.00	3779.00	
100 A	900 A	1700 A	H(L)36100(C)	1328.00	1592.00	1701.00	2042.00	2099.00	2519.00	3149.00	3779.00	
110 A	900 A	1700 A	H(L)36110(C)	2600.00	3120.00	3599.00	4319.00	5174.00	6209.00	6749.00	8099.00	
125 A	900 A	1700 A	H(L)36125(C)	2600.00	3120.00	3599.00	4319.00	5174.00	6209.00	6749.00	8099.00	
150 A	900 A	1700 A	H(L)36150(C)	2600.00	3120.00	3599.00	4319.00	5174.00	6209.00	6749.00	8099.00	
Current Rating @ 40°C	Adjustable AC Magnetic Trip		Cat. No. ■◆	Interrupting Rating (2nd Letter of Catalog Number)								Terminal Wire Range
				D		G		J▼		L▼		
				\$ Price								
Low	High		80% Rated	100% Rated	80% Rated	100% Rated	80% Rated	100% Rated	80% Rated	100% Rated		
J-Frame 250A 2P, 600 Vac 50/60 Hz, 250 Vdc												
150 A	750 A	1500 A	J(L)26150(C)	2175.00	2610.00	3212.00	3854.00	4671.00	5606.00	5811.00	6972.00	AL175JD 4-4/0 AWG Al or Cu
175 A	875 A	1750 A	J(L)26175(C)	2175.00	2610.00	3212.00	3854.00	4671.00	5606.00	5811.00	6972.00	
200 A	1000 A	2000 A	J(L)26200(C)	2175.00	2610.00	3212.00	3854.00	4671.00	5606.00	5811.00	6972.00	
225 A	1125 A	2250 A	J(L)26225(C)	2175.00	2610.00	3212.00	3854.00	4671.00	5606.00	5811.00	6972.00	
250 A	1250 A	2500 A	J(L)26250(C)	2988.00	3585.00	4251.00	5102.00	6225.00	7469.00	7194.00	8633.00	
J-Frame 250A 3P, 600 Vac 50/60 Hz, 250 Vdc												
150 A	750 A	1500 A	J(L)36150(C)	2730.00	3276.00	3779.00	4535.00	5432.00	6519.00	7086.00	8504.00	AL175JD 4-4/0 AWG Al or Cu
175 A	875 A	1750 A	J(L)36175(C)	2730.00	3276.00	3779.00	4535.00	5432.00	6519.00	7086.00	8504.00	
200 A	1000 A	2000 A	J(L)36200(C)	2730.00	3276.00	3779.00	4535.00	5432.00	6519.00	7086.00	8504.00	
225 A	1125 A	2250 A	J(L)36225(C)	2730.00	3276.00	3779.00	4535.00	5432.00	6519.00	7086.00	8504.00	
250 A	1250 A	2500 A	J(L)36250(C)	3749.00	4499.00	5001.00	6002.00	7238.00	8685.00	8993.00	10791.00	

- ▲ See page 7-23 for circuit breakers with field interchangeable trip units.
- To complete catalog number, replace the blank with the appropriate rating (D, G, J, L).
- ◆ For 100% rated circuit breakers add a "C" in the 9th character place (for example, HDL26015C or JDL26150C).
- ★ 100% rated J frame breakers have copper lugs and can only be used with copper wire.
- ▼ J and L interrupts are UL certified as current limiting.

Table 7.38: H- and J-Frame Termination Options

Termination Letter
A - I-Line (See Section 9)
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.

H, G, L, 3, 6, 1, 0, 0

Termination Letter

- △ Add TS suffix for circuit breaker without terminal nut kit.
- For N and D pricing, add termination pricing on page 7-42 to price. For S pricing, add termination pricing on page 7-38 to price.

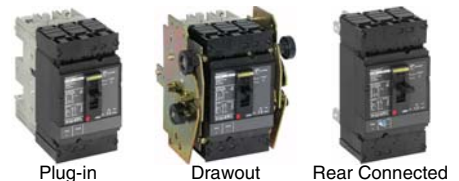






Table 7.39: H- and J-Frame Interrupting Ratings

Voltage	Interrupting Rating			
	D	G	J	L
240 Vac	25 kA	65 kA	100 kA	125 kA
480 Vac	18 kA	35 kA	65 kA	100 kA
600 Vac	14 kA	18 kA	25 kA	50 kA

Accessories	Page 7-36
Optional Lugs	Page 7-39
Dimensions	Page 7-55
Enclosures	Page 7-56



Table 7.77: Electrical Accessories

Accessory	Description	Rated Voltage	G-Frame		H-, J-, and D-Frame				M-, P-, and R-Frame							
			Field-Installable Cat. No.	\$ Price	Factory-Installed Cat. Suffix	H- and J-Frame		D-Frame		Factory Installed Cat. Suffix	Field-Installable Cat. No.	\$ Price				
						Field-Installable Cat. No.	\$ Price	Field-Installable Cat. No.	\$ Price							
 <p>Auxiliary and Alarm Switches (OF, SD, SDE)</p> <p>H-, J-, D-, M-, P-, and R-Frame</p> <p>G-Frame</p>	<p>Provides circuit breaker contact status.</p> <p>Note: The location of the accessory in the circuit breaker determines its function.</p>	<p>Standard Min Load = 10mA with 24V</p>	1 auxiliary switch (OF) 1a1b	AAC	297.00	AA	S29450	297.00	297.00	AA	S29450	297.00				
			2 auxiliary switch (OF) 2a2b	—	—	AB	2x S29450	594.00	2x S29450	594.00	AB	2x S29450	594.00			
			3 auxiliary switch (OF) 3a3b	—	—	AC	—	—	3x S29450	891.00	AC	3x S29450	891.00			
			Alarm Switch (SD) 1a1b	AAC	297.00	BC	S29450	297.00	S29450	297.00	BC	S29450	297.00			
			Overcurrent trip switch (SDE) 1a1b	—	—	BD	—	338.00	S29450	297.00	BD	S29450	297.00			
			Consisting of: OF Switch	—	—	—	S29450	297.00	—	—	—	—	—			
			SDE Adapter	—	—	—	S29451	40.50	—	—	—	—	—			
			Alarm switch and Overcurrent trip switch	—	—	BE	—	635.00	2x S29450	594.00	BE	2x S29450	594.00			
			Consisting of: OF Switch	—	—	—	2x S29450	594.00	—	—	—	—	—			
			SDE Adapter	—	—	—	S29451	40.50	—	—	—	—	—			
			Auxiliary Switch/Alarm Switch/Adapter (OF/SD/SDE) Kit	—	—	—	—	—	—	—	—	S33801	297.00			
			 <p>Shunt Trip (MX)</p> <p>H-, J-, and D-Frame</p> <p>G-Frame</p>	<p>Trips the circuit breaker from a remote location by means of a trip coil energized from a separate supply voltage circuit.</p>	<p>Low Level Min Load = 1mA with 24V</p>	One auxiliary switch (OF) 1a1b	—	—	AE	S29452	372.00	S29452	372.00	AE	S29452	372.00
Two auxiliary switches (OF) 2a2b	—	—				AF	2x S29452	744.00	2x S29452	744.00	AF	2x S29452	744.00			
3 auxiliary switches (OF) 3a3b	—	—				AG	—	—	3x S29452	1116.00	AG	3x S29452	1116.00			
Alarm Switch (SD) 1a1b	—	—				BH	S29452	372.00	S29452	372.00	BH	S29452	372.00			
Overcurrent trip switch (SDE) 1a1b	—	—				BJ	—	413.00	S29452	372.00	BJ	S29452	372.00			
Consisting of: OF Switch	—	—				—	S29452	372.00	—	—	—	—	—			
SDE Adapter	—	—				—	S29451	40.50	—	—	—	—	—			
Alarm switch and Overcurrent trip switch	—	—				BK	—	785.00	2x S29452	744.00	BK	2x S29452	744.00			
Consisting of: OF Switch	—	—				—	2x S29452	744.00	—	—	—	—	—			
SDE Adapter★	—	—				—	S29451	40.50	—	—	—	—	—			
 <p>Undervoltage Trip</p> <p>H-, J-, and D-Frame</p> <p>G-Frame</p>	<p>Instantaneously opens the circuit breaker when the under-voltage trip supply voltage drops to a value between 35% and 70% of its rated voltage. Closing is allowed when the supply voltage of the undervoltage trip reaches 85% of rated voltage.</p>	<p>AC</p>				24	—	—	SK	S29384	—	S29384	—	SK	S33659	755.00
						48	—	—	SL	S29385	—	S29385	—	SL	S33660	
			120	GSA	—	—	—	—	—	—	—	—				
			110/130	—	—	SA	S29386	—	S29386	—	SA	S33661				
			208	GSB	—	—	—	—	—	—	—	—				
			240	GSC	—	—	—	—	—	—	—	—				
			200/250	—	717.00	—	—	—	717.00	—	717.00	—	SC	S33662		
			277	GSD	—	—	—	—	—	—	—	—	—			
			208/277	—	—	SD	S29387	—	S29387	—	SD	S33663				
			480	GSH	—	—	—	—	—	—	—	—	—			
			380/480	—	—	SH	S29388	—	S29388	—	SH	S33664				
			525/600	—	—	SJ	S29389	—	S29389	—	—	—				
			<p>DC</p>	12	—	—	SN	S29382	—	S29382	—	SN	S33658	755.00		
				24	GSO	—	—	—	—	—	—	—	—			
				30	—	—	SO	S29390	—	S29390	—	SK	S33659			
				48	GSP	717.00	—	SU	S29391	—	S29391	—	SK		S33659	
				60	—	—	SP	S29392	717.00	S29392	717.00	SL	S33660			
				125	GSR	—	—	SV	S29383	—	S29383	—	SL		S33660	
				250	GSS	—	—	SR	S29393	—	S29393	—	SA		S33661	
				—	—	—	—	SS	S29394	—	S29394	—	SC		S33662	
				<p>AC</p>	24	—	—	UK	S29404	—	S29404	—	UK		S33668	755.00
					48	—	—	UL	S29405	—	S29405	—	UL		S33669	
					120	GUA	—	—	—	—	—	—	—		—	
					110/130	—	—	UA	S29406	—	S29406	—	UA		S33670	
208	GUB	—	—		—	—	—	—	—	—						
240	GUC	—	—		—	—	—	—	—	—						
200/250	—	717.00	—		—	—	717.00	—	717.00	UC	S33671					
277	GUD	—	—		UD	S29407	—	S29407	—	—	—					
208/277	—	—	—		—	—	—	—	—	—	—					
480	GUH	—	—		UH	S29408	—	S29408	—	UH	S33673					
380/480	—	—	—		UJ	S29409	—	S29409	—	—	—					
525/600	—	—	—		—	—	—	—	—	—						
<p>DC</p>	12	—	—	UN	S29402	—	S29402	—	—	—	755.00					
	24	GUO	—	—	—	—	—	—	—	—						
	30	—	—	—	—	—	—	—	—	—						
	48	GUP	717.00	—	UP	S29412	717.00	S29412	717.00	UK		S33668				
	60	—	—	—	—	—	—	—	—	—						
	125	GUR	—	—	—	—	—	—	—	—						
	250	GUS	—	—	—	—	—	—	—	—						
	<p>AC/DC</p>	48/60	—	—	—	—	—	—	—	—		—	1140.00			
		100/130	—	—	—	—	—	—	—	—		—				
		200/250	—	—	—	—	—	—	—	—		—				
		380/480	—	—	—	—	—	—	—	—		—				
		100/130	—	—	—	—	—	—	—	—		—				
200/250		—	—	—	—	—	—	—	—	—						
<p>Time Delay Unit</p> 		<p>Undervoltage trip with externally mounted adjustable time delay unit for UVR of 0.5, 0.9, 1.5, 3.0 seconds before circuit breaker trips</p>	<p>AC/DC</p>	48/60	—	—	—	—	—	—	FL	S33680▲		930.00		
				100/130	—	—	—	—	—	—	—	—			FA	S33681▲
<p>Undervoltage trip with externally mounted non-adjustable time delay unit of 0.25 sec before circuit breaker trips.</p>		<p>AC/DC</p>	100/130	—	—	—	—	—	—	—	—	S33682▲				
			200/250	—	—	—	—	—	—	—	—	—		S33683▲		
<p>AC/DC</p>		<p>AC/DC</p>	100/130	—	—	—	—	—	—	—	—	KA		S33684▲		
			200/250	—	—	—	—	—	—	—	—	—		KC	S33685▲	

▲ Field-installable kit includes time delay module only. Order undervoltage trip separately.
 ■ Discount schedule DE2F.
 ♦ P-frame drawout circuit breaker only.
 ★ SDE Adapter used for H- and J-frame only.

7 MINIATURE AND MOLDED CASE

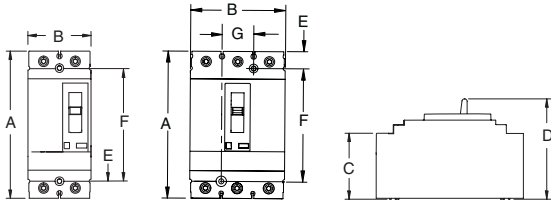


Figure 25

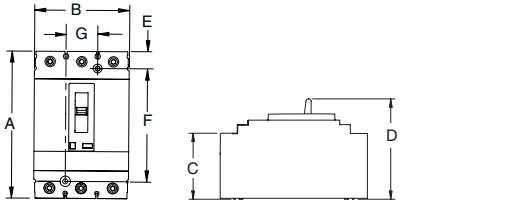


Figure 26

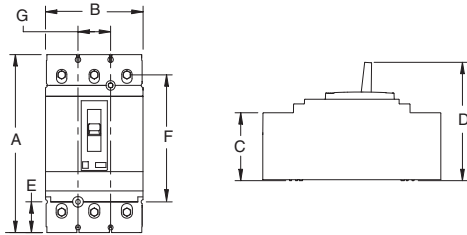


Figure 27

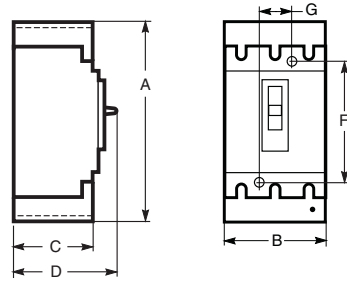


Figure 28

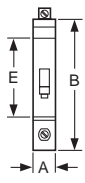


Figure 29

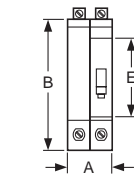


Figure 30

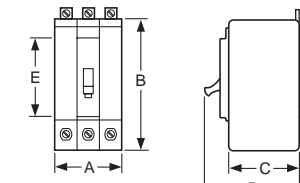


Figure 31

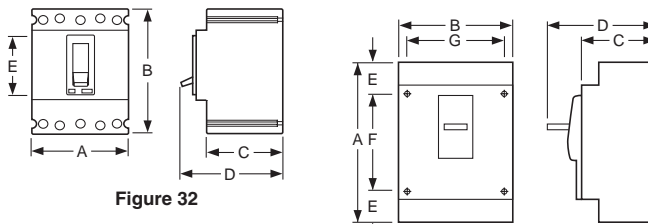


Figure 32

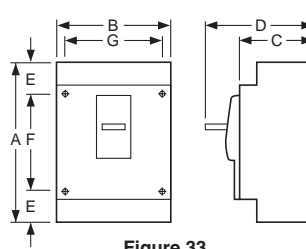


Figure 33

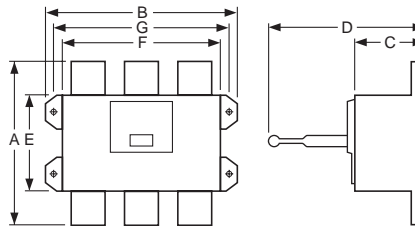


Figure 34

Table 7.143: HD, HG, HJ, HL, JD, JG, JJ, JL, DG, DJ, and DL 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	2	25	6.40	2.74	2.87	4.36	0.74	4.92	—
	3	26	6.40	4.12	2.87	4.36	0.74	4.92	1.38
JJ, JG, JJ, JL	3	27	7.52	4.12	2.87	5.00	1.30	4.92	1.38
DG, DJ, DL	3	28	13.38	5.51	3.75	6.61	2.22	8.93	1.77

Table 7.144: ED, EG, EJ and GJL Circuit Breakers

Circuit Breaker Cat. 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
ED, EG, EJ	2	30	1.96	5.66	3.09	4.05	3.32
ED, EG, EJ	3	31	2.94	5.66	3.09	4.05	3.32
GJ	3	32	3.54	4.72	2.76	3.94	2.20

Table 7.145: 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

Table 7.146: Shipping Weights▲

Frame Size	Approx. Shipping Weight (Lbs.)	Frame Size	Approx. Shipping Weight (Lbs.)
HD, HG, HJ, HL 2P	4	DG, DJ, DL	14
HD, HG, HJ, HL 3P	5	GJ	3
JD, JG, JJ, JL	5	MG, MJ	34
ED, EG, EJ 1P	2	PG, PJ, PL	32
ED, EG, EJ 2P	3	RG, RJ, RL (Without RLTB)	52
ED, EG, EJ 3P	4		

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