

Table 9.55: E-frame—125 A, Thermal-magnetic (480Y/277 Vac)

Ampere Rating	ED, EG, EJ (480Y/277 Vac)		"D" Interrupting Level 18 kA @ 480Y/277 Vac		"G" Interrupting Level 35 kA @ 480Y/277 Vac		"J" Interrupting Level 65 kA @ 480Y/277 Vac		Terminal Wire Range
	Hold	Trip	Catalog Number	\$ Price	Catalog Number	\$ Price	Catalog Number	\$ Price	
1-pole, 277 Vac									
15	270	875	EDB14015	150.	EGB14015	255.	EJB14015	408.	AL30FD #14-#6 Al or Cu
20			EDB14020		EGB14020		EJB14020		
25			EDB14025		EGB14025		EJB14025		
30			EDB14030		EGB14030		EJB14030		
35	630	1800	EDB14035	150.	EGB14035	225.	EJB14035	408.	AL100FD #14-2/0 Al or Cu
40			EDB14040		EGB14040		EJB14040		
45			EDB14045		EGB14045		EJB14045		
50			EDB14050		EGB14050		EJB14050		
60			EDB14060		EGB14060		EJB14060		
70			EDB14070		EGB14070		EJB14070		
2-pole, 480Y/277 Vac									
15	270	875	EDB24015	536.	EGB24015	776.	EJB24015	1241.	AL30FD #14-#6 Al or Cu
20			EDB24020		EGB24020		EJB24020		
25			EDB24025		EGB24025		EJB24025		
30			EDB24030		EGB24030		EJB24030		
35	630	1800	EDB24035	536.	EGB24035	776.	EJB24035	1241.	AL100FD #14-2/0 Al or Cu
40			EDB24040		EGB24040		EJB24040		
45			EDB24045		EGB24045		EJB24045		
50			EDB24050		EGB24050		EJB24050		
60			EDB24060		EGB24060		EJB24060		
70			EDB24070		EGB24070		EJB24070		
80	1000	2300	EDB24080	756.	EGB24080	1280.	EJB24080	2048.	AL100FD #14-2/0 Al or Cu
90			EDB24090		EGB24090		EJB24090		
100			EDB24100		EGB24100		EJB24100		
110			EDB24110		EGB24110		EJB24110		
125	EDB24125	EGB24125	EJB24125	2586.	3879.				
3-pole, 480Y/277 Vac									
15	270	875	EDB34015	669.	EGB34015	1131.	EJB34015	1358.	AL30FD #14-#6 Al or Cu
20			EDB34020		EGB34020		EJB34020		
25			EDB34025		EGB34025		EJB34025		
30			EDB34030		EGB34030		EJB34030		
35	630	1800	EDB34035	669.	EGB34035	1131.	EJB34035	1358.	AL100FD #14-2/0 Al or Cu
40			EDB34040		EGB34040		EJB34040		
45			EDB34045		EGB34045		EJB34045		
50			EDB34050		EGB34050		EJB34050		
60			EDB34060		EGB34060		EJB34060		
70			EDB34070		EGB34070		EJB34070		
80	1000	2300	EDB34080	911.	EGB34080	1292.	EJB34080	2562.	AL100FD #14-2/0 Al or Cu
90			EDB34090		EGB34090		EJB34090		
100			EDB34100		EGB34100		EJB34100		
110			EDB34110		EGB34110		EJB34110		
125	EDB34125	EGB34125	EJB34125	3216.	4826.				
EPDs (Equipment Protection Devices), 1-pole, 277 Vac, Thermal-magnetic with 30 mA ground-fault protection*									
15	270	875	EDB14015EPD	1151.	EGB14015EPD	1256.	EJB14015EPD	1409.	#14-#6 Cu or #12-#4 Al
20			EDB14020EPD		EGB14020EPD		EJB14020EPD		
30			EDB14030EPD		EGB14030EPD		EJB14030EPD		
40			EDB14040EPD		EGB14040EPD		EJB14040EPD		
50	EDB14050EPD	EGB14050EPD	EJB14050EPD	1151.	1256.	1409.			

Note: All EDB, EGB, and EJB circuit breakers are UL Listed as HACR Type. For 50°C calibration, use a CA suffix. NF branch circuit breakers are fungus proof as standard.

- ▲ UL Listed as SWD (Switching duty rated).
- UL Listed as HID (High Intensity Discharge rated).
- ◆ UL Listed for use on 240 V Corner-grounded Delta Systems (Grounded B Phase). See: 2700DB0202.
- ★ All EPDs occupy two spaces, with or without Alarm Switch option. For alarm switch add 158 list Price and the suffix BA.



EDB-EPD
1-pole
with Alarm Switch



EDB, EGB, EJB
3-pole
15-125 Amperes



EDB, EGB, EJB
1-pole
15-70 Amperes



EDB, EGB, EJB
2-pole
15-125 Amperes

Table 9.56: Factory installed Electrical Accessories

Auxiliary Switch (1A/1B)	Alarm Switch (NO)	Coil Burden Max. (VA)	Minimum Recommended Supply Transformer (VA)
		288	50
Monitors circuit breaker contact status and provides a remote signal indicating the circuit breaker contacts are OPEN or CLOSED.	Used with control circuits and is actuated only when the circuit breaker has tripped.	Shunt Trip Trips the circuit breaker from a remote location by means of a coil energized from a separate circuit. A 120 V shunt trip will operate at 55% or more of rated voltage.	
APPLICATION Max Load = 10 A @ 120 Vac 50/60 Hz Terminals for #14 AWG Cu wire	APPLICATION Max Load = 7 A @ 120 Vac 50/60 Hz Terminals for #14 AWG Cu wire.	APPLICATION For use with momentary or maintained push button. 120 Vac 50/60 Hz Terminals for #14 AWG Cu wire.	

Table 9.57: Factory Installed Electrical Accessory Packages for ED, EG, EJ Circuit Breakers

Accessory Package	Suffix	\$ Price
Auxiliary Switch/Alarm Switch Package▲■	AABA	312.
Shunt Trip Package▲■	SA	755.
Auxiliary Switch/Alarm	AABASA	1067.
Alarm Switch (N.O.) Package for EPDs only	BA	237.

▲ Accessory package takes an additional pole space.
■ Not available for EPD.

Table 9.58: Terminal Nut Insert Kit

Circuit Breaker Type	Qty. per Kit	Catalog No.	\$ Price
ED, EG, EJ	3	TIKFD	17.40

Table 9.59: Handle Accessories

Circuit Breaker Type	No. of Poles	Catalog No.	\$ Price
EXB Fixed Padlock Attachment, Lock ON/OFF			
ED, EG, EJ	1, 2, or 3	EDPA	39.00
EXB Fixed padlock attachment, Lock OFF only			
ED, EG, EJ	1, 2, or 3	EDPAF	45.00
EXB Removable padlock attachment, Lock OFF only			
ED, EG, EJ	1, 2, or 3	HPAFD	25.50

Table 9.60: Interrupt Ratings (kA)

	EDB	EGB	EJB
120 V	25	65	100
240 V	18 (1P), 25	35 (1P), 65	65 (1P), 100
480Y/277 V	18	35	65

Table 9.61: Mechanical Lug Kit Information (Al lugs for use with Al or Cu wire)

Standard	Circuit Breaker Application		Number of Wires Per Lug and Wire Range	Catalog Number	Lugs Per Kit	\$ price Per Kit
	Ampere Rating	Optional Ampere Rating				
EDB, EGB, EJB	15-30	—	one #12-#6 AWG Al or one #14-#6 AWG Cu	AL30FD	3	41.30
	35-125	EDB, EGB, EJB	one #12-2/0 AWG Al or one #14-2/0 AWG Cu	AL100FD	3	
—	—	EDB, EGB, EJB	one #14-1/0 AWG Cu	CU100FD	3	

▲ Factory installed only. Use suffix "LH"

Optional Lugspages starting on 7-38

Dimensionspages starting on 7-53

		QOU Circuit Breakers				QOM1 and QOM2 Main Circuit Breakers		Multi 9™ Circuit Breakers and Supplementary Protectors						EDB Circuit Breakers									
																							
Circuit Breaker Type	Plug-on	—				—	—	—						—									
	Bolt-on	—				—	—	QOM1-VH		QOM2-VH		—		—		New!		EDB		EGB		EJB	
	Unit Mount	QOU		QYU▲		—	—	UL 489 C60N			UL1077 C60N■			C60H-DC		—		—		—			
Number of Poles	1	2	3	1	2	2	1	2	3	1	2	3,4	1	2	1	2,3	1	2,3	1	2,3			
Current Range	10-100	10-125	10-100	10-30	50-125	100-225	0.5-35	0.5-35	0.5-35	0.5-63	1-63	1-63	0.5-40	0.5-40	15-70	15-125	15-70	15-125	15-70	15-125			
Interrupting Ratings																							
UL/CSA Rating (kA RM/S) (50/60 Hz)	120 Vac	10	10	10	—	22	22	10	—	—	10	10	10	—	—	25	25	65	65	100	100		
	120/240 Vac	10	10	10	—	22	22	5	10	10	10	10	10	—	—	18	25	35	65	65	100		
	240 Vac♦	—	—	10	—	—	—	5	10	10	10	10	10	—	—	18	25	35	65	65	100		
	277 Vac	—	—	—	5	—	—	—	—	—	5	5	5	—	—	18	18	35	35	65	65		
	480Y/277 Vac	—	—	—	—	—	—	10	10	10	—	5	5	—	—	—	18	—	35	—	65		
DC Ratings	48 Vdc	5★	5★	5★	—	—	—	—	—	10	10	—	5	5	—	—	—	—	—	—			
	60 Vdc	5▼	5▼	5▼	—	—	—	—	—	10	10	—	5	5	—	—	—	—	—	—			
	65 Vdc	—	—	—	—	—	—	—	—	10	10	—	5	5	—	—	—	—	—	—			
	125 Vdc	—	—	—	—	—	—	—	—	10	—	—	5	5	—	—	—	—	—	—			
	250 Vdc	—	—	—	—	—	—	—	—	—	—	—	5	5	—	—	—	—	—	—			
	500 Vdc	—	—	—	—	—	—	—	—	—	—	—	—	—	5●	—	—	—	—	—	—		
IEC 60947-2 (50/60 Hz) Icu	240 Vac	—	—	—	—	—	—	20	20	20	10	10	10	20	10	20	—	—	—	—	—		
	415 Vac	—	—	—	—	—	—	—	10	10	—	5	5	—	—	10	—	—	—	—			
Special Ratings																							
Fed. Specs W-C-375B/GEN		X	X	X	X	X	X	X	X	X	—	—	—	—	—	X	X	X	X	X	X		
Other Standard		HACR Δ				—	—	—	—	—	—	□	—	—	—	HACR							
Accessories and Modifications																							
Shunt Trip		X◇	X◇	X◇	X◇	—	X◇	X	X	X	X	X	X	X	X	X◇	X◇	X◇	X◇	X◇	X◇		
Undervoltage Trip		—	—	—	—	—	—	X	X	X	X	X	X	X	X	—	—	—	—	—	—		
Auxiliary Switches		X◇	X◇	X◇	X◇	—	—	X	X	X	X	X	X	X	X	X◇	X◇	X◇	X◇	X◇	X◇		
Alarm Switch		X◇	X◇	X◇	X◇	—	—	X	X	X	X	X	X	X	X	X◇	X◇	X◇	X◇	X◇	X◇		
Handle Operators		—	—	—	—	—	—	X	X	X	X	X	X	X	—	—	—	—	—	—			
Handle Padlock Attachment		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Trip System Type																							
Thermal-magnetic		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
Molded Case Switch		—	X	X	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Dimensions (1P Unit Mount)																							
Dimensions (1P Unit Mount) in. (mm)	Height	4.05 (103)				5.09 (129)★		5.60 (142)★		4.21 (107)▽			3.19 (81)		3.19 (81)		5.66 (144)						
	Width	0.75 (19)				5.00 (127)★		5.07 (129)★		0.71 (18)			0.71 (18)		0.71 (18) 1.42 (36)		0.98 (25)						
	Depth	2.92 (74)				3.47 (88)★		3.60 (91)★		2.76 (70)			2.76 (70)		2.56 (65)		4.05 (103)						
Pages	Pages 7-14				Pages 1-2		Pages 7-16 through 7-19						Page 9-17										

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

- ▲ QYU is a UL 1077 supplementary protector.
- C60N are recognized components per UL 1077.
- ◆ For information regarding 3Ø corner grounded systems see the Supplemental Digest.
- ★ 1P and 2P, 10-70 A and 3P 10-60 A only.
- ▼ QOU is UL Listed for 60 Vdc per pole 80-100 A, 1P; 80-125 A, 2P; and 70-100 A, 3P.
- Δ HACR on QOU 1P and 3P 15-100 A, 2P 15-125 A;
- UL 489A for DC Telecom applications (1-pole only).
- ◇ Factory-installed option only
- ☆ QOM1 and QOM2 dimensions are for 2-pole unit.
- ▽ 480 V C60 height is 5.56 in. (141 mm).
- 2 poles must be wired in series for 500 Vdc.

7 MINIATURE AND MOLDED CASE CIRCUIT BREAKERS

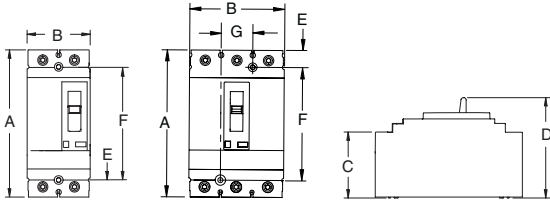


Figure 25

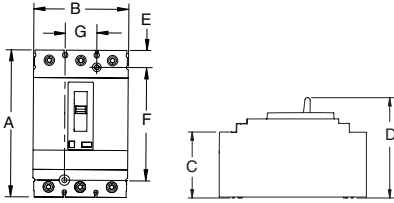


Figure 26

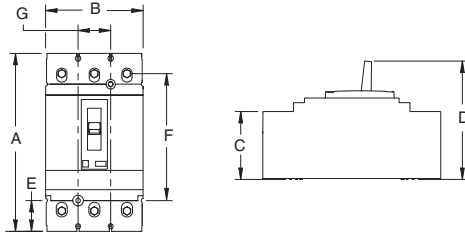


Figure 27

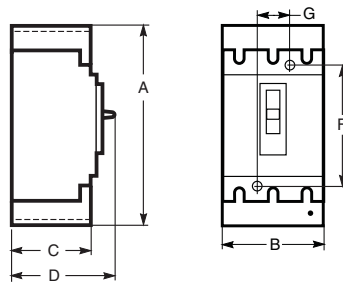


Figure 28

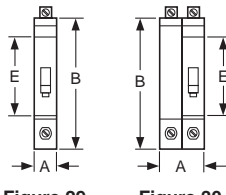


Figure 29

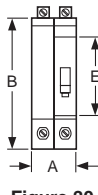


Figure 30

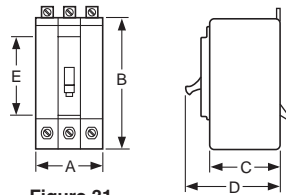


Figure 31

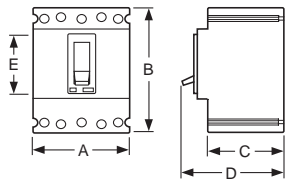


Figure 32

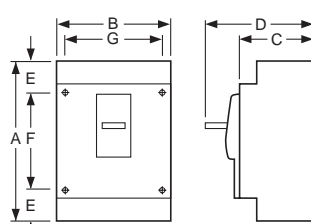


Figure 33

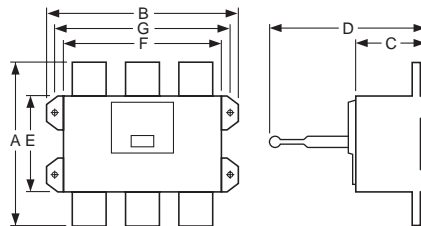


Figure 34

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
JD, 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.