



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



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



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



EDB-EPD
1-pole
with Alarm Switch

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▲■	\$ 100.	EGB14015▲■	\$ 170.	EJB14015▲■	\$ 272.	AL30FD #14-#6 Al or Cu
20	270	875	EDB14020▲■	100.	EGB14020▲■	170.	EJB14020▲■	272.	
25	270	875	EDB14025▲■	100.	EGB14025▲■	170.	EJB14025▲■	272.	
30	270	875	EDB14030▲■	100.	EGB14030▲■	170.	EJB14030▲■	272.	
35	630	1800	EDB14035■	100.	EGB14035■	170.	EJB14035■	272.	AL100FD #14-2/0 Al or Cu
40	630	1800	EDB14040■	100.	EGB14040■	170.	EJB14040■	272.	
45	630	1800	EDB14045■	100.	EGB14045■	170.	EJB14045■	272.	
50	630	1800	EDB14050■	100.	EGB14050■	170.	EJB14050■	272.	
60	630	1800	EDB14060■	100.	EGB14060■	170.	EJB14060■	272.	
70	630	1800	EDB14070■	201.	EGB14070■	338.	EJB14070■	541.	

2-pole, 480Y/277 Vac ♦

15	270	875	EDB24015■	357.	EGB24015■	517.	EJB24015■	827.	AL30FD #14-#6 Al or Cu
20	270	875	EDB24020■	357.	EGB24020■	517.	EJB24020■	827.	
25	270	875	EDB24025■	357.	EGB24025■	517.	EJB24025■	827.	
30	270	875	EDB24030■	357.	EGB24030■	517.	EJB24030■	827.	
35	630	1800	EDB24035■	357.	EGB24035■	517.	EJB24035■	827.	AL100FD #14-2/0 Al or Cu
40	630	1800	EDB24040■	357.	EGB24040■	517.	EJB24040■	827.	
45	630	1800	EDB24045■	357.	EGB24045■	517.	EJB24045■	827.	
50	630	1800	EDB24050■	357.	EGB24050■	517.	EJB24050■	827.	
60	630	1800	EDB24060■	357.	EGB24060■	517.	EJB24060■	827.	
70	630	1800	EDB24070■	504.	EGB24070■	853.	EJB24070■	1365.	
80	1000	2300	EDB24080■	504.	EGB24080■	853.	EJB24080■	1423.	
90	1000	2300	EDB24090■	504.	EGB24090■	853.	EJB24090■	1423.	
100	1000	2300	EDB24100■	504.	EGB24100■	853.	EJB24100■	1423.	
110	1000	2300	EDB24110■	1297.	EGB24110■	1724.	EJB24110■	2586.	
125	1000	2300	EDB24125■	1297.	EGB24125■	1724.	EJB24125■	2586.	

3-pole, 480Y/277 Vac

15	270	875	EDB34015■	446.	EGB34015■	754.	EJB34015■	905.	AL30FD #14-#6 Al or Cu
20	270	875	EDB34020■	446.	EGB34020■	754.	EJB34020■	905.	
25	270	875	EDB34025■	446.	EGB34025■	754.	EJB34025■	905.	
30	270	875	EDB34030■	446.	EGB34030■	754.	EJB34030■	905.	
35	630	1800	EDB34035■	446.	EGB34035■	754.	EJB34035■	905.	AL100FD #14-2/0 Al or Cu
40	630	1800	EDB34040■	446.	EGB34040■	754.	EJB34040■	905.	
45	630	1800	EDB34045■	446.	EGB34045■	754.	EJB34045■	905.	
50	630	1800	EDB34050■	446.	EGB34050■	754.	EJB34050■	905.	
60	630	1800	EDB34060■	446.	EGB34060■	754.	EJB34060■	905.	
70	630	1800	EDB34070■	607.	EGB34070■	861.	EJB34070■	1708.	
80	1000	2300	EDB34080■	607.	EGB34080■	861.	EJB34080■	1708.	
90	1000	2300	EDB34090■	607.	EGB34090■	861.	EJB34090■	1708.	
100	1000	2300	EDB34100■	607.	EGB34100■	861.	EJB34100■	1708.	
110	1000	2300	EDB34110■	1614.	EGB34110■	2144.	EJB34110■	3217.	
125	1000	2300	EDB34125■	1614.	EGB34125■	2144.	EJB34125■	3217.	

EPDs (Equipment Protection Devices), 1-pole, 277 Vac, Thermal-magnetic with 30 mA ground-fault protection*

15	270	875	EDB14015EPD▲■	767.	EGB14015EPD▲■	837.	EJB14015EPD▲■	939.	#14-#6 Cu or #12-#4 Al
20	270	875	EDB14020EPD▲■	767.	EGB14020EPD▲■	837.	EJB14020EPD▲■	939.	
30	270	875	EDB14030EPD▲■	767.	EGB14030EPD▲■	837.	EJB14030EPD▲■	939.	
40	630	1800	EDB14040EPD▲■	767.	EGB14040EPD▲■	837.	EJB14040EPD▲■	939.	
50	630	1800	EDB14050EPD▲■	767.	EGB14050EPD▲■	837.	EJB14050EPD▲■	939.	

All EDB, EGB, and EJB circuit breakers are UL Listed as HACR Type.
 ▲ 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).
 * All EPDs occupy two spaces, with or without Alarm Switch option.

Factory installed Electrical Accessories

Auxiliary Switch (1A/1B) Monitors circuit breaker contact status and provides a remote signal indicating the circuit breaker contacts are OPEN or CLOSED.		Alarm Switch (NO) Used with control circuits and is actuated only when the circuit breaker has tripped.		Coil Burden Max. (VA)	Minimum Recommended Supply Transformer (VA)
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.		288	50
				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 For use with momentary or maintained push button. 120 Vac 50/60 Hz Terminals for #14 AWG Cu wire.	

Factory installed Electrical Accessory Packages for ED, EG, EJ Circuit Breakers

Accessory Package	Suffix	Price
Auxiliary Switch/Alarm Switch Package▼△	AABA	\$208.
Shunt Trip Package▼△	SA	503.
Auxiliary Switch/Alarm Switch/Shunt Trip Package▼△	AABASA	711.
Alarm Switch (N.O.) Package for EPDs only	BA	158.

▼ Accessory package takes an additional pole space.
 △ Not available for EPD.






Terminal Nut Insert Kit

Circuit Breaker Type	Qty. per Kit	Catalog No.	Price
ED, EG, EJ	3	TIKFD	\$11.60

Handle Accessories

Circuit Breaker Type	No. of Poles	Catalog No.	Price
Handle Padlock Attachment (locks ON or OFF)			
ED, EG, EJ	1, 2 or 3	HPAFD	\$17.00
Interrupting 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

Optional Lugs page 6-43, 6-44
 Dimensions page 6-50

		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	...		...		...		...		EDB		EGB		EJB																		
	Unit Mount	QOU		QYU	...		...		UL 489 C60N		UL1077 C60NΔ		UL1077 NC100HΔ				...		...		...																						
Number of Poles	1	2	3	1	2		2		1	2	3	1	2	3,4	1	1	2	2	3,4	3,4	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		10-40		50-80		10-40		50-80		10-40		50-80		15-70		15-125		15-70		15-125		15-70		15-125	
Interrupting Ratings																																																
UL/CSA Rating (kA RMS) (50/60 Hz AC)	120 Vac	10	10	10	...	22	22	10	10	10	10	10	10	20	5	20	5	20	5	20	5	25	25	65	65	100	100																			
	120/240 Vac	10	10	10	...	22	22	5	10	10	10	10	10	10	20	5	20	5	20	5	20	5	18	25	35	65	65	100																				
	240 Vac□	...	...	10	...	...	...	5	10	10	10	10	10	20	5	20	5	20	5	20	5	18	25	35	65	65	100																
	277 Vac	...	...	...	5	...	...	...	...	...	5	5	5	10	...	10	...	10	...	10	...	18	18	35	35	65	65													
480Y/277 Vac	...	...	...	...	...	...	...	...	...	5	5	...	10	...	10	...	10	...	10	...	18	...	35	...	65														
DC Ratings	48 Vdc	5▲	5▲	5▲	...	...	...	...	...	...	10	10	...	10	10	10	10	10	10	10	10	...	...	...	...	...	...															
	60 Vdc	■	■	■	...	...	...	10	10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			
	65 Vdc	...	...	...	...	...	...	...	...	...	10	10	...	10	10	10	10	10	10	10	10	...	...	...	...	...	...															
	125 Vdc	...	...	...	...	...	...	...	10	...	...	10	...	10	...	10	...	10	10	10	10	...	...	...	...	...	...															
	250 Vdc	...	...	...	...	...	...	...	...	...	...	...	...	...	10	...	...	...	...	...	...	...	...	...	...	...	...									
IEC 60947-2 (50/60 Hz AC) Ultimate Rating	240 Vac	...	...	...	...	...	...	20	20	20	10	10	10	20	10	20	20	20	20	20	20	...	...	...	...	...	...															
	415 Vac	...	...	...	...	...	...	...	10	10	...	5	5	...	...	10	10	10	10	...	...	...	...	...	...	...															
Special Ratings																																																
Fed. Specs W-C-375B/GEN	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	...	...	...	...	...	...	...	...	...	...	...	✓	✓	✓	✓	✓	✓										
Other Standard	HACR◆				...	...	...	...	...	...	◇	...	...	...	...	...	...	...	...	...	...	HACR										
Accessories and Modifications																																																
Shunt Trip	✓★	✓★	✓★	✓★	...	✓★	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓★	✓★	✓★	✓★	✓★	✓★																					
Undervoltage Trip	...	...	...	...	...	...	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	...	...	...	...	...	...									
Auxiliary Switches	✓★	✓★	✓★	✓★	...	...	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓★	✓★	✓★	✓★	✓★	✓★																			
Alarm Switch	✓★	✓★	✓★	✓★	...	...	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓★	✓★	✓★	✓★	✓★	✓★																			
Handle Operators	...	...	...	...	...	...	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	...	...	...	...	...	...									
Handle Padlock Attachment	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓																					
Trip System Type																																																
Thermal-magnetic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓																					
Molded Case Switch	...	✓	✓	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Dimensions (1-pole Unit Mount)																																																
Dimensions (1P Unit Mount)	Height IN (mm)	4.05 (103)				5.09 (129)▽		5.60 (142)▽		4.21 (107)		3.19 (81)		3.19 (81)				5.66 (144)																														
	Width IN (mm)	0.75 (19)				5.00 (127)▽		5.07 (129)▽		0.71 (18)		0.71 (18)		1.06 (27)				0.98 (25)																														
	Depth IN (mm)	2.92 (74)				3.47 (88)▽		3.60 (91)▽		2.76 (70)		2.76 (70)		2.76 (70)				4.05 (103)																														
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Note: All circuit breakers on this chart are UL recognized, CSA certified and IEC rated unless otherwise noted.
▲ 1- and 2-pole, 10-70 A and 3-pole 10-60 A only.
■ QOU is UL Listed for 60 Vdc per pole 80-100 A, 1-pole; 80-125 A, 2-pole; and 70-100 A, 3-pole.
◆ HACR on QOU 1-pole and 3-pole 15-100 A, 2-pole 15-125 A;
★ Factory-installed option only
▼ QYU is a UL 1077 supplementary protector.
△ C60N and NC100H are recognized components per UL 1077.
□ For information regarding 3 phase corner grounded systems see Supplemental Digest.
◇ UL 489A for DC Telecom applications (1-pole only).
★ Factory-installed option only
▽ QOM1 and QOM2 dimensions are for 2-pole unit.

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600 Amp Main Circuit Breaker

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150 Amp Bolt-On (QOB)
225 Amp Sub-Feed
(QB, QD, QG, QJ,
HD, HG, HJ, HL,
JD, JG, JJ, JL, KI)



NQOD

Maximum 480Y/277 Vac
Maximum Mains Ampacity:
800 Amp Main Lugs
600 Amp Main Circuit Breaker

Maximum Branch Ampacity:
125 Amp Bolt-On
(EDB, EGB, EJB)
250 and 400 Amp Sub-Feed
(JD, JG, JJ, JL, LA, LH, LC)



NF

Maximum 600 Vac, 250 Vdc
Maximum Mains Ampacity:
1200 Amp Main Lug
1200 Amp Main Circuit
Breaker

Maximum Branch Ampacity
1200 Amp Circuit Breaker
1200 Amp Sub-Feed/Feed-
Thru Lugs



I-LINE

Maximum 600 Vac, 250 Vdc
Maximum Mains Ampacity:
1600 Amp Main Lugs
800 Amp Main Switch

Maximum Branch Ampacity:
800 Amp Switch
400 Amp Circuit Breaker



QMB

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INTRODUCTION

CLASS IV

Exchange of permanent trip circuit breakers (KA, LA, MA or NA) furnished in lieu of circuit breakers specified with interchangeable trip. These circuit breakers can be identified by a label stating that they are subject to this exchange policy.

Allowance

A replacement circuit breaker within the same frame size, but of a different trip rating than that exchanged, is furnished at the lowest recognized competitive list price for a trip unit of the same frame size and trip rating minus the regular discount. This exchange arrangement requires that the replaced circuit breaker be returned to Square D.

CATALOG NUMBERS

Square D circuit breakers are ordered by a catalog number that includes the breaker family, description, poles, voltage rating, amperage rating and suffix.

Figure 5 shows a catalog number broken down by components. For example, FAL36050V2100, a typical catalog number, can be broken down as follows:

- FA 100A frame circuit breaker
- L Circuit breaker with lugs on both ends
- 3 Number of poles
- 6 Voltage rating
- 050 Continuous current amperage rating (handle rating)
- V and 2100 V indicates the Visi-Blade feature and the 2100 indicates a factory installed contact alarm. These two components are the suffix.

TYPICAL CATALOG NUMBER:

	FA	L	3	6	050	V	2100
BREAKER FAMILY							
FY - 30 Amp. Frame	NOTE: "A" is replaced by letter "H" for High Interrupting						
FA - 100 Amp. Frame	"A" is replaced by letter "C" for Extra High Interrupting						
KA - 250 Amp. Frame	"A" is replaced by letter "I" for Current Limiting. (FA, KA, LA circuit breakers only)						
LA - 400 Amp. Frame							
MA - 1000 Amp. Frame							
NA - 1200 Amp. Frame							
DESCRIPTION							
NO LETTER - (I-LINE®) Plug-On Breaker							
B - (I-LINE) Bolt-On Breaker (400 ampere frame maximum)							
F - Terminal Pads Only (No Lugs)							
L - Lugs on Both Ends (Merchandised — Universal Breaker)							
P - Lugs OFF End Only							
R - Plug-On Breaker (I-LINE Type DO with Plug-On Line & Load Connectors)							
POLES							
1 - 1-Pole							
2 - 2-Pole							
3 - 3-Pole							
VOLTAGE RATING							
2 - 240Vac							
4 - 480Vac							
6 - 600Vac							
AMPERE RATING							
015 - 090 - 15-90 Ampere Rating							
100 - 900 - 100-900 Ampere Rating							
1000 - 1200 - 1000-1200 Ampere Rating							
000 or 0000 - Molded Case Switch							
000X or 000XX - Molded Case Switch							
SUFFIX							
The suffix indicates a special feature of the circuit breaker.							
A, B, C - indicates I-LINE® Phase Connections							
V - indicates Visi-Blade							
M - indicates Automatic Molded Case Switch							
XXM - indicates Instantaneous Trip only (MAG-GARD®) (i.e., 18M is 300-1100A adjustable trip range)							
XXT - indicates adjustable magnetic trip with responsive thermal (mining breakers)							
G - indicates Ground Fault Shunt Trip accessory							
XXXX - i.e., 2100 indicates a factory installed accessory							

FIGURE 5
CATALOG NUMBERING SYSTEM FOR THERMAL-MAGNETIC MOLDED CASE CIRCUIT BREAKERS

