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Application and Selection  
Quick Selector Chart

**Application:**

Circuit breakers and their appropriate enclosures are used:

- in conjunction with service entrance, lighting, heating, appliance and motor protection circuits
- to provide disconnect means
- for short circuit protection and thermal time delay overload protection
- in various types of damp, wet, corrosive and hazardous areas

**Considerations for Selection:**

Considerations for selection of proper enclosure:

- The environment of the enclosure location in terms of NEC/CEC compliance and NEMA/EEMAC type required
- The size and type of circuit breaker required for the particular application
- See "Quick Selector" below for guidance

**Options:**

Many options are available on:

- material and finishes where special atmospheric conditions prevail
- special features for specific applications.

See individual listings for available options

**Quick Selector Chart**

3C Circuit Breakers

Enclosures for Circuit Breakers									
Encl.	NEC/CEC – Hazardous Area Certifications and Compliances	NEMA/EEMAC Encl. Type	Circuit Breaker						
			Type	Am- pere Rating Range	Voltage Range	Manufacturer and Frame Size	No. of Poles	Inter- change- able Trip	Enclosure Cover Construction
<b>EFD, EFDC</b>	Cl. I, Div. 1 & 2, Groups B,C,D Cl. II, Div. 1, Groups E,F,G Cl. II, Div. 2, Groups F,G Cl. III	3,7BCD, 9EFG	Thermal-Magnetic	15-30	120AC	Sq. D – QOU	1	No	Bolted/ Ground Joint
<b>EBMB</b>	Cl. I, Div. 1 & 2, Groups B,C,D Cl. II, Div. 1, Groups E,F,G Cl. II, Div. 2, Groups F,G Cl. III	3R,4,7BCD, 9EFG,12	Thermal-Magnetic	15-800	120AC/125DC to 600AC/250DC	G.E. – TEB, TED, TFJ, TFK, TJJ, TJK, TKMA Sq. D – FAL, KAL, LAL, MAL Cut.-Ham. – EHD, FD, FDB, JD, JDB, KD, KDB,	1,2,3	Yes	Bolted/ Ground Joint/ Gasketed
<b>EPC</b>	Cl. I, Div. 1 & 2, Groups C,D Cl. II, Div. 1, Groups E,F,G Cl. II, Div. 2, Groups F,G Cl. III	3,4,7CD, 9EFG	Thermal-Magnetic	15-250	120AC/125DC to 600AC/250DC	G.E. – TEB, TED, TFJ Sq. D – FAL, KAL Cut.-Ham. – EHD, FD, FDB, JD, JDB	1,2,3	Yes	Threaded
<b>FLB</b>	Cl. I, Div. 1 & 2, Groups C,D Cl. II, Div. 1, Groups E,F,G Cl. II, Div. 2, Groups F,G Cl. III	3,7CD, 9EFG	Thermal-Magnetic	15-225	120AC/125DC to 600AC/250DC	G.E. – TEB, TED, TFJ, TFK Sq. D – FAL, KAL Cut.-Ham. – EHD, FD, FDB, JD, JDB	1,2,3	Yes	Threaded
<b>GUSC*</b>	Cl. I, Div. 1 & 2, Groups B,C,D Cl. II, Div. 1, Groups E,F,G Cl. II, Div. 2, Groups F,G Cl. III	3,7BCD, 9EFG	Electro-Magnetic	1/4-35 1/4-3	115-230 AC 120DC	Heinemann #0131	1	No	Threaded
<b>EIB</b>	Cl. I, Div. 1 & 2, Groups B,C,D Cl. I, Zones 1 & 2 Cl. II, Div. 1, Groups E,F,G Cl. III	3,3R,4, 7BCD, 9EFG	Magnetic	15-100	480 AC	Cut. Ham. – EG	3	No	Bolted/ Ground Joint

\* Enclosure only.

# EIB Series

## Compact Circuit Breaker Assemblies With Covers

Cl. I, Div. 1 & 2, Groups B,C,D  
 Cl. I, Zones 1 & 2  
 Cl. II, Div. 1, Groups E,F,G  
 Class III  
 NEMA 3, 3R, 4, 7BCD, 9EFG  
 UL Standard: 886 cUL to CSA C22.2 No. 30

3C



The EIB Series of compact circuit breaker assemblies is an innovative line of explosion-proof motor control now being offered by Cooper Crouse-Hinds. The EIB series utilizes the EJB style D enclosure with its bolted construction, NEMA 4 environmental protection and Class I, Division 1, Group B, C and D hazardous area ratings. The EIB series is a cost-effective solution for circuit breaker protection and utilizes the Cutler-Hammer Type EG circuit breakers. Circuit breaker protection is available from 15 to 100 amps.

### Features:

- Small compact footprint
- Rotary handle operator mounted on cover assembly
- No internal fork operator
- Trip position easily identified
- Neoprene cover gasket
- Detachable mounting feet
- Stainless steel hinges
- (2) 1½" NPT conduit entries, one on top and one on bottom

### Standard Materials:

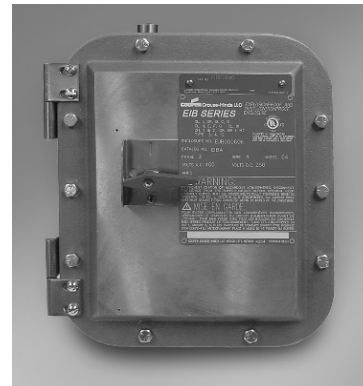
- Body and Cover — Copper-free aluminum
- Gasket — Neoprene
- Cover Bolts — Steel
- Hinges — Stainless Steel
- Mounting Plate Sheet — Aluminum

### Benefits:

- Less mounting space required and reduced enclosure cost
- Definite on, off and trip positions
- Will not damage breaker toggle
- Can identify from a distance
- Provides UL Type 4 (hosetight) environmental rating
- Provides flexible mounting alternatives, no need to replace the entire enclosure if a mounting foot is broken
- Easy access to inside enclosure for wiring and maintenance
- For easy top or bottom feed of conductors
- For field addition of breather and/or drain; holes come plugged

### Finishes:

- Copper-free Aluminum — natural
- Steel — Electro-galvanized



3C Circuit Breakers

### Certifications:

- Class I, Divisions 1 & 2, Groups B, C & D
  - Class I, Zones 1 & 2
  - Class II, Division 1, Groups E, F and G
  - Class III
  - Enclosure type 3, 3R, and 4, 7BCD, 9EFG
  - NEMA 3, 3R, 4, 7BCD, 9EFG
  - UL Standard 886
  - cUL to CSA C22.2 No. 30
- \* Not applicable when ordered with the S756V option

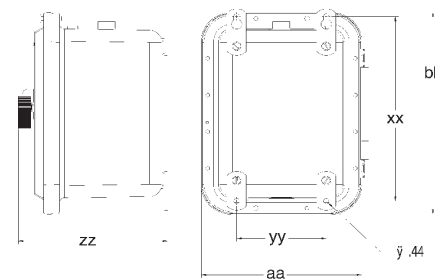
### Electrical Ratings:

- 480 volts
- 3 poles
- 10,000 AIC max.

### Weights:

EIBA 39 lbs  
 EIBB 58 lbs

### Dimensions:



### Ordering Information:

Circuit Breaker Rating (amps)	Enclosure Only	Enclosure with Circuit Breaker
15	EIBA	EIBA3015
20	EIBA	EIBA3020
25	EIBA	EIBA3025
30	EIBA	EIBA3030
35	EIBA	EIBA3035
40	EIBB	EIBB3040
45	EIBB	EIBB3045
50	EIBB	EIBB3050
60	EIBB	EIBB3060
70	EIBB	EIBB3070
80	EIBB	EIBB3080
90	EIBB	EIBB3090
100	EIBB	EIBB3100

### Options:

	add suffix
Insulated Neutral Lug	S146
Grounded Neutral Lug kit w/connectors for 50, 100 & 225 amps	S178
External Ground Stud	S214
Breather and drain	S756V
Epoxy Powder Coat Finish (exterior only)	S752
Epoxy Powder Coat Finish (exterior and interior)	S753

	Size A	Size B
aa	10.47"	12.53"
bb	12.47"	16.53"
xx	11.13"	15.13"
yy	5.0"	7.0"
zz	9.6"	11.66"
Mounting Holes	7/16"	7/16"

Cl. I, Div. 1 & 2, Groups B,C,D  
 Cl. II, Div. 1, Groups E,F,G  
 Cl. II, Div. 2, Groups F,G  
 Cl. III  
 NEMA 3,3R,4‡,7BCD,9EFG,12

Explosionproof  
 Dust-Ignitionproof  
 Raintight  
 Wet Locations  
 Watertight

## Application:

Spectrum EBM™ hinged cover motor control enclosures are used:

- For general motor control and circuit protection – indoors and outdoors – in damp, wet, dirty, dusty hazardous locations without the need for a protective shelter.
- In areas where frequent washdowns are necessary or where heavy rain or water spray is prevalent.
- To provide line disconnect means and short circuit protection.
- For service entrance, feeder or branch circuit protection for lighting, heating, appliance and motor circuits.
- On switchracks or other assemblies where it's desired that motor control be centrally located.

## Features:

- Rugged, corrosion resistant, cast copper-free aluminum construction (Less than 0.4 of 1%).
- Circuit breaker operating handle located through the right side wall of the body permits visual confirmation of correct component assembly and operation.
- Total compliance to the wiring end room requirements of the National Electrical Code®.
- Semi-clamshell enclosure design, with an external flanged ground joint between body and cover makes interior components more accessible.
- Minimum enclosure-to-enclosure spacing with little interference between the opened cover and an adjacent enclosure.
- Copper-free aluminum hinges allow the cover to swing well out of the way.
- Stainless steel, quick release, captive, hex head cover bolts. Stainless steel springs provide clear indication cover bolts are fully retracted from body.
- Versatile, internal operating mechanisms allow for field adjustment to accommodate popular manufacturers' breakers.
- Simple, straightforward installation of breaker on pre-drilled mounting plate within enclosure. Mounting plate also field removable.
- Circuit breaker external operating handle can be padlocked in either "ON" or "OFF" positions.
- Neoprene cover gasket permanently attached to the cover seals out moisture.
- Bodies have top and bottom drilled and tapped entrances for power conduits and control conduits. Removable reducers are supplied, as standard, to accommodate smaller size conduits. All conduit entrances are plugged.
- Tap-on mounting feet.
- Optional EMPS control devices may be added to enclosure cover.
- Steel bracket for lifting larger enclosures during installation supplied as standard.

## Certifications and Compliances:

- NEC/CEC:
  - Class I, Division 1 & 2, Groups B,C,D
  - Class II, Division 1, Groups E,F,G
  - Class II, Division 2, Groups F,G
  - Class III
- UL Standard: UL1203 – Hazardous (classified) locations/CSA Standards: C22.2 No. 30
- UL subject 2062 – High A.I.C. Rating (Interrupting Capacity) For Groups C & D only.
 

Volt	RMS Symm. Amperes
240	65,000
480	50,000
600	25,000
- NEMA 3, 3R, 4 ‡, 7BCD, 9EFG, 12

## Standard Materials:

- Body and cover – copper-free aluminum
- Operating handle – copper-free aluminum
- Operating shaft and bushing – stainless steel
- Interior parts – sheet steel, electrogalvanized
- Cover bolts, washers and retractile springs – stainless steel

## Electrical Rating Ranges:

- Circuit breakers – 100, 150, 225, 250, 400, 600, 800, 1000\*\* ampere frame sizes

National Electrical Code is a Registered Trademark of The National Fire Protection Association.

\*\* 1000 Ampere Frame (max. 800 ampere trip)



Spectrum EBM motor control enclosures accommodate popular makes of circuit breakers.

‡ Enclosure not suitable for NEMA 4 with cover mounted operators. Breather and drain entries must be plugged for NEMA 4 rating.

# EBMB Circuit Breakers and Enclosures

Cl. I, Div. 1 & 2, Groups B,C,D  
 Cl. II, Div. 1, Groups E,F,G  
 Cl. II, Div. 2, Groups F,G  
 Cl. III  
 NEMA 3,3R,4,4,7BCD,9EFG,12

Explosionproof  
 Dust-Ignitionproof  
 Raintight  
 Wet Locations  
 Watertight

**3C**

3C Circuit Breakers

## Options:

The following options are available from factory by adding suffix to catalog number. Suffixes are added alphanumerically.

### Catalog Number System

EBMBB-(A)-WT30FDB36-(B)

(A) Options in this position are additions to the enclosure and should be listed alphanumerically.  
 (B) Options in this position are modifications to the circuit breaker and should be listed alphanumerically.



EBMB Series circuit breaker enclosures are available with breakers from 100 to 1000\*\* amp frame sizes.

\*\* 1000 Ampere Frame (max. 800 ampere trip.)

Description	Suffix to be added to Cat. No.	Position in Cat. No.
• Ambient compensated circuit breaker trip setting . . . . .	<b>AC</b>	<b>B</b>
• Pilot light, 120VAC, red jewel, w/blank indicating plate . . . . .	<b>J1</b> ①	<b>A</b>
• Pilot light, 120VAC, green jewel, w/blank indicating plate . . . . .	<b>J3</b> ①	<b>A</b>
• LED pilot lights in place of standard incandescent pilot lamps . . . . .	<b>LED</b>	<b>A</b>
• Start-stop pushbuttons (requires 2 spaces) . . . . .	<b>PB23</b> ① ‡	<b>A</b>
• Space heater, 120 volt, 25 watts . . . . .	<b>R11</b>	<b>A</b>
• Space heater, 240 volt, 25 watts . . . . .	<b>R22</b>	<b>A</b>
• Space heater, 480 volt, 25 watts . . . . .	<b>R44</b>	<b>A</b>
• Insulated neutral w/2 connectors . . . . .	<b>S146</b>	<b>A</b>
• Grounded neutral stud w/3 connectors (50, 100, 225 amp) . . . . .	<b>S178</b>	<b>A</b>
• Std. drain, Class I, B,C & D; Class II, E F & G, Class III . . . . .	<b>S756</b> ‡	<b>A</b>
• Std. breather & drain, Class I, B,C & D; Class II, E F & G; Class III . . . . .	<b>S756V</b> ‡	<b>A</b>
• Side conduit entrances (check factory for application) . . . . .	<b>S366</b>	<b>A</b>
• Back conduit entrances (check factory for application) . . . . .	<b>S367</b>	<b>A</b>
• External epoxy finish . . . . .	<b>S752</b>	<b>A</b>
• Internal and external epoxy finish . . . . .	<b>S753</b>	<b>A</b>
• Aux. switch on circuit breaker, 1A & 1B contacts . . . . .	<b>S784</b>	<b>B</b>
• Aux. switch on circuit breaker, 2A & 2B contacts . . . . .	<b>S785</b>	<b>B</b>
• 12 point term. block – 30 amp, 300 V . . . . .	<b>S786</b>	<b>A</b>
• General purpose control relay, 4 pole N.O., contacts rated 10A @ 600V, coil 120VAC, 50-60 Hertz . . . . .	<b>S787</b>	<b>A</b>

① When specifying any one of the following options with Spectrum EBM™ Motor Controls (J1, J3, PB23, RR2, RR3) it is necessary to order **DSL** Legend Plates for non-standard markings of the device(s) being used. See page 329 for DSL Legend Plate listings

‡ Enclosure not suitable for NEMA 4 with cover mounted operators. Breather and drain entries must be plugged for NEMA 4 rating.





Cl. I, Div. 1 & 2, Groups B,C,D  
 Cl. II, Div. 1, Groups E,F,G  
 Cl. II, Div. 2, Groups F,G  
 Cl. III  
 NEMA 3,3R,4†,7BCD,9EFG,12

Explosionproof  
 Dust-Ignitionproof  
 Raintight  
 Wet Locations  
 Watertight

**Ordering Information:**

● To order an enclosure complete with circuit breaker, insert the manufacturer's symbols in the designated positions of the catalog number. Symbols are shown below.

● Enclosures can be ordered without circuit breakers. Select from listings below. For manufacturer's catalog numbers of circuit breakers that may be used with Spectrum EBM motor control enclosures see section 6C.

**EBMB Series Enclosures for Circuit Breakers**

Circuit Breaker			Enclosures		
Poles ①	Voltage Rating	Circuit Breaker Frame Size	Without Circuit Breaker Cat. No.	Circuit Breaker Amp Rating	With Circuit Breaker Cat. No.
3	240VAC or 125-250VDC	100 Amp. Frame	EBMBA②✓	15A thru 70A	EBMBA-DT□FAL32✓
3	240VAC or 125-250VDC	150 Amp. Frame	EBMBA③④✓	10A thru 70A	EBMBA-TT□TEB32✓
3	480VAC or 250VDC	100 Amp. Frame	EBMBA②✓	15A thru 70A	EBMBA-†□◆34✓
3	480VAC or 250VDC	150 Amp. Frame	EBMBA③④✓	10A thru 70A	EBMBA-TT□TED34✓
3	600VAC	100 Amp. Frame	EBMBA②✓	15A thru 70A	EBMBA-DT□FAL36✓
3	600VAC	150 Amp. Frame	EBMBA③④⑤✓	10A thru 70A	EBMBA-†□◆36✓
3	240VAC or 125-250VDC	100 Amp. Frame	EBMBB②✓	15A thru 100A	EBMBB-DT□FAL32✓
3	240VAC or 125-250VDC	150 Amp. Frame	EBMBB③④✓	10A thru 150A③	EBMBB-TT□TEB32✓
3	480VAC or 250VDC	100 Amp. Frame	EBMBB②✓	15A thru 100A	EBMBB-†□◆34✓
3	480VAC or 250VDC	150 Amp. Frame	EBMBB③④✓	10A thru 150A	EBMBB-TT□TED34✓
3	600VAC	100 Amp. Frame	EBMBB②✓	15A thru 100A	EBMBB-DT□FAL36✓
3	600VAC	150 Amp. Frame	EBMBB③④⑤✓	15A thru 150A	EBMBB-†□◆36✓
3	600VAC	250 Amp. Frame	EBMBG⑥⑦✓	70A thru 250A	EBMBG-†□◆36
3	600VAC or 250VDC	400 Amp. Frame	EBMBK⑧✓	100A thru 400A⑥	EBMBK-†□◆36
3	600VAC or 250VDC	600 Amp. Frame	EBMBL⑩✓	250A thru 600A	EBMBL-WT□◆36
3	600VAC or 250VDC	800 Amp. Frame	EBMBL⑩✓	300A thru 800A	EBMBL-WT□◆36
3	600VAC or 250VDC	1000 Amp. Frame	EBMBL✓	125A thru 800A (max.)	EBMBL-DT□◆36

† Circuit Breakers:

Manufacturer	Symbol
Cutler-Hammer	WT
General Electric	TT
Square D	DT

◆ Select Circuit Breaker Frame Type based on Frame size, voltage, and manufacturer desired:

Manufacturer	100 Amp. Frame			150 Amp. Frame			250 Amp. Frame⑥⑦			400 Amp. Frame 600VAC			600 Amp. Frame 600VAC	800 Amp. Frame 600VAC	1000 Amp. Frame 600VAC
	240VAC	480VAC	600VAC	240VAC	480VAC	600VAC	600VAC			600VAC					
Cutler-Hammer	—	EHD	—	—	—	FDB	JD-Interchangeable Trip Unit	JDB-Non-Interchangeable Trip Unit	KD-Interchangeable Trip Unit	KDB-Non-Interchangeable Trip Unit	LD	MD	—		
General Electric	TEB	—	—	—	TED	TED	TFK-Interchangeable Trip Unit	TFJ-Non-Interchangeable Trip Unit	TJK-Interchangeable Trip Unit	TJJ-Non-Interchangeable Trip Unit	TJK	TKMA	—		
Square D	FAL	FAL	FAL	—	—	—	KAL		LAL		—	—	MAL		

□ Select Trip Setting from below:

- 100 Amp Frame (EHD, FAL)② – 15, 20, 25, 30, 35, 40, 45, 50, 60, 70, 80, 90, 100
- 150 Amp. Frame (TDB, TEB, TED)③④⑤ – 10, 15, 20, 25, 30, 35, 40, 45, 50, 60, 70, 80, 90, 100, 110, 125, 150
- 225/250 Amp Frame (JD, JDB, KAL, TFJ, TFK)⑥⑦ – 70, 80, 90, 100, 110, 125, 150, 175, 200, 225, 250
- 400 Amp. Frame (KD, KDB, LAL, TJJ, TJK)⑧ – 100, 125, 150, 175, 200, 225, 250, 300, 350, 400
- 600 Amp. Frame (LD, TJK)⑨ – 250, 300, 350, 400, 450, 500, 600
- 800 Amp Frame (MD, TKMA)⑩ – 300, 350, 400, 450, 500, 600, 700, 800
- 1000 Amp Frame (MAL) – 125, 150, 175, 200, 225, 250, 300, 350, 400, 450, 500, 600, 700, 800

Footnotes:

- ① Depending on availability from the circuit breaker manufacturer 1 and 2 pole can be furnished. Information on request.
- ② EBMBA will accept 15 thru 70 amp. trip, EBMBB will accept 15 thru 100 amp. trip.
- ③ EBMBA will accept 10 thru 70 amp. trip, EBMBB will accept 10 thru 150 amp. trip.
- ④ General Electric TEB frame available 10 thru 100 amp. trip. TED frame available 10 thru 150 amp. trip.
- ⑤ Westinghouse FDB frame available 15 thru 150 amp. trip.
- ⑥ General Electric TFJ and TFK types are 225 amp. frame, available 70 thru 225 amp. trip.
- ⑦ Westinghouse JD and JDB types are 250 amp. frame, available 70, 90, 100 and 125 thru 250 amp. trip.
- ⑧ Westinghouse KD and KDB frames available 100 thru 400 amp. trip. Square D LAL and General Electric TJJ and TJK frames available 125 thru 400 amp. trip.
- ⑨ Westinghouse LD frame available 300 thru 400 and 500, 600 amp. trip.
- ⑩ Westinghouse MD frame available 400 and 500 thru 800 amp. trip.

✓ – available with Lightning Service™ delivery. See Section G for complete details.

‡ Enclosure not suitable for NEMA 4 with cover mounted operators. Breather and drain entries must be plugged for NEMA 4 rating.

3C Circuit Breakers

# EBMB Circuit Breakers and Enclosures

Dimensions (inches)

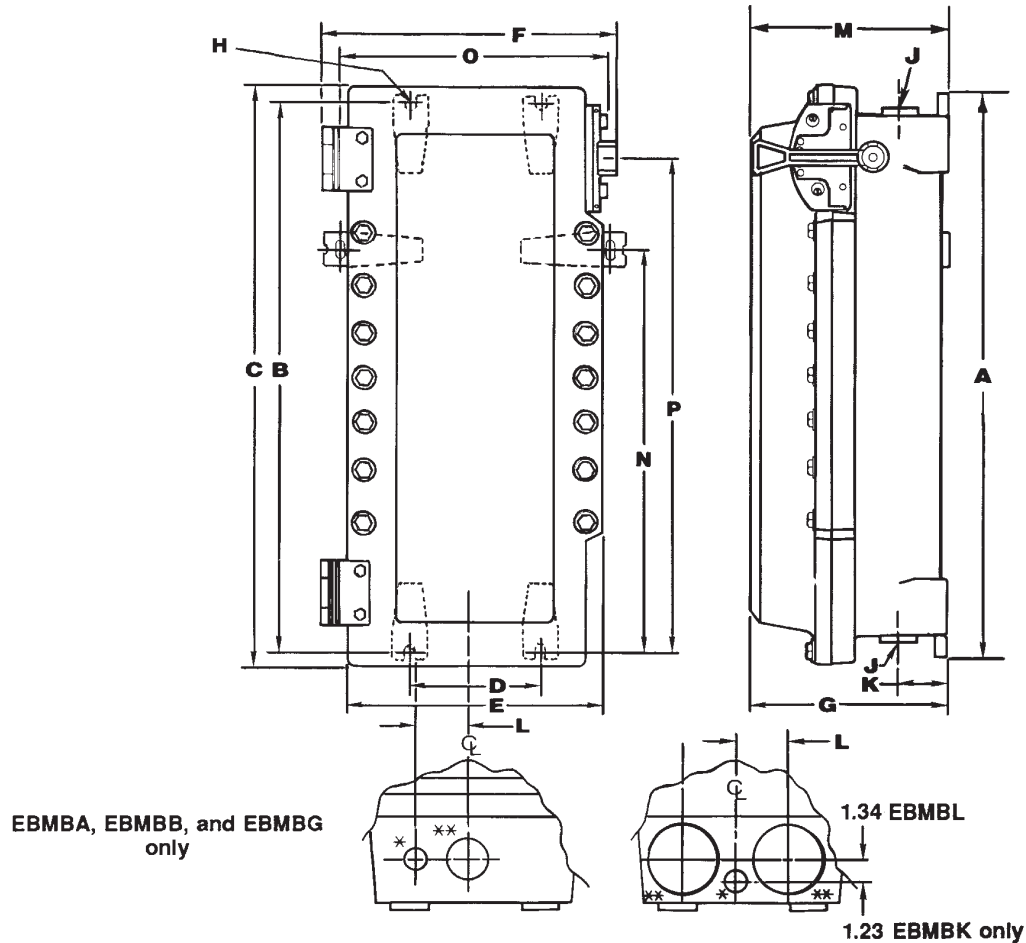
Cl. I, Div. 1 & 2, Groups B,C,D  
 Cl. II, Div. 1, Groups E,F,G  
 Cl. II, Div. 2, Groups F,G  
 Cl. III  
 NEMA 3,3R,4‡,7BCD,9EFG,12

Explosionproof  
 Dust-Ignitionproof  
 Raintight  
 Wet Locations  
 Watertight

**3C**



Dimensions are approximate, not for construction purposes.



\* 1" Drilled & Tapped (D & T) conduit entry for control conductors supplied with PLG plug top and bottom.

\*\* Conduit entrance(s) for power conductors (top and bottom). (All conduit entrance(s) supplied with RE reducer and PLG plug.)

\*\*\* Use 1/2" diameter bolts for mounting all enclosures. (see H) Note: Lifting bracket will accommodate a maximum 2 ton hook.

Enclosure Only Cat. No.	Enclosure Size Symbol	Dimensions								** J Conduit Entry Trade Size		Dimensions					
		A	B	C	D	E	F	G	D&T † w/RE	K	L	M	N	O	P		
100 Amp Frame	EBMBA ✓	A	18.25	17.25	19.40	6.00	13.03	14.78	10.25	2"	1.5"	3.25	3.13	10.25	—	—	14.50
100 and 150 Amp Frame	EBMBB ✓	B	25.75	24.75	26.90	6.00	13.03	14.78	10.25	2"	1.5"	3.25	3.13	10.25	—	—	22.00
225 and 250 Amp Frame	EBMBG ✓	G	37.50	36.50	39.28	6.00	13.03	14.78	10.25	3.0"	2.5"	3.25	3.13	10.25	—	—	34.06
400 Amp Frame	EBMBK ✓	K	43.12	41.50	42.65	12.00	17.65	20.28	10.92	(2)3"	(2)2.5"	3.25	3.00	10.92	—	—	29.23
600, 800 and 1000† Amp Frame	EBMBL ✓	L	53.25	51.50	53.28	12.00	17.90	20.58	13.03	(2)4"	(2)3.5"	4.00	3.50	13.13	41.50	18.40	29.88

† 1000 Ampere Frame (max. 800 ampere trip)  
 ✓ - available with Lightning Service™ delivery. See Section G for complete details.

♦ Drilled & Tapped.  
 ‡ Enclosure not suitable for NEMA 4 with cover mounted operators. Breather and drain entries must be plugged for NEMA 4 rating.

**Application:**

EPC Circuit breakers and enclosures are used:

- for service entrance\*, feeder or branch circuit protection for lighting, heating, appliance and motor circuits
- in areas made hazardous due to the presence of flammable vapors, gases or combustible dusts
- in damp, wet or corrosive locations
- indoors or outdoors at petroleum refineries, chemical or petrochemical plants and other process industry facilities where similar hazards exist
- to provide disconnect means, short circuit protection and thermal time delay overload protection

**Features:**

- Quick-opening covers – less than two turns to remove or install
- Three section design for ease of installation
- Water-shedding construction with female threads on top cover, male threads on bottom cover, and top cover skirted
- Specially located stops and locks insure adequate thread engagement and prevent overtightening
- Separate replaceable mounting bracket attached to the rear of the body provides three-point suspension for quick installation and leveling – one keyhole slot at top and two open slots at bottom
- Bodies have two taper-tapped conduit hubs with integral bushings on the top, and two more directly below
- Mounting plates are supplied with all necessary holes and hardware to attach any of the circuit breakers shown in the catalog listings. Breaker and interior mounting frames are easily removed as a unit, providing free access to the wiring chamber
- Breaker is operated by an external handle which can be padlocked in either “ON” or “OFF” positions by as many as three padlocks. Breaker is trip-free of the handle and will open under short circuit or overload, even if the handle is locked in the “ON” position

**Standard Materials:**

- Bodies and covers – copper-free aluminum
- Operating handles – copper-free aluminum
- Operating shafts – stainless steel
- Interior parts – sheet steel



**Standard Finishes:**

- Copper-free aluminum – natural
- Stainless steel – natural
- Sheet steel – electrogalvanized

**Electrical Rating Ranges:**

- 100, 150, 225, 250 ampere frame sizes

**Certifications & Compliances:**

- NEC/CEC:
  - Class I, Division 1 & 2, Groups C,D
  - Class II, Division 1, Groups E,F,G
  - Class II, Division 2, Groups F,G
  - Class III
- NEMA: 3, 4, 7CD, 9EFG
- UL Standard: 698
- CSA: C22.2 No. 30

**Options:**

- The following special options are available from factory by adding suffix to Cat. No.:

**Description**

Description	Suffix to be Added to Encl. Cat. #
Auxiliary Switch‡	
1A/1B (1P2T) .....	S784
2A/2B (2P2T) .....	S785
Insulated neutral with 2 connectors (100, 150 and 225 amp.) .....	S146
Grounded neutral stud with 3 connectors (100, 150 and 225 amp.) .....	S178
Side bosses drilled and tapped same size as standard hubs .....	S366
Back boss drilled and tapped same size as standard hubs .....	S367
Standard Breather (Class I, Groups C, D; Class II, Groups E, F, G; Class III) .....	S219
Standard Drain (Class I, Groups C, D; Class II, Groups E, F, G; Class III) .....	S198
Standard Breather and Drain (Class I, Groups C, D; Class II, Groups E, F, G; Class III) .....	S198V
Universal Breather-Drain (Class I, Groups C, D; Class II, Groups F, G) .....	S454§
(2) Universal Breather-Drains (Class I, Groups C, D; Class II, Groups F, G) .....	S454V§

\* Suffix S146 insulated material must be used to comply with NEC requirements for service entrance

‡ Application is limited by circuit breaker design – Consult Factory.

§ Not Suitable for NEMA 4



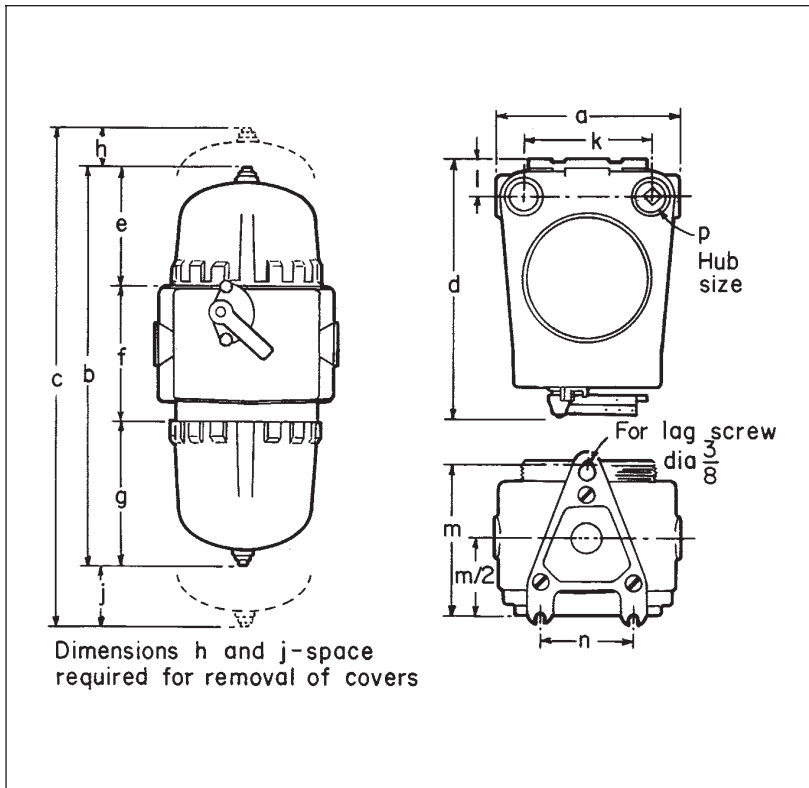
# EPC Circuit Breakers and Enclosures

Dimensions\* (inches)

Cl. I, Div. 1 & 2, Groups C,D  
 Cl. II, Div. 1, Groups E,F,G  
 Cl. II, Div. 2, Groups F,G  
 Cl. III  
 NEMA 3,4,7CD,9EFG

Explosionproof  
 Dust-Ignitionproof  
 Raintight  
 Wet Locations  
 Watertight

**3C**



Cat. # EPC	377	387	317
Int. Dia.	7"	7"W	11"
a	10 <sup>5</sup> / <sub>8</sub>	12 <sup>13</sup> / <sub>16</sub>	16 <sup>1</sup> / <sub>8</sub>
b	19 <sup>13</sup> / <sub>16</sub>	19 <sup>13</sup> / <sub>16</sub>	25 <sup>1</sup> / <sub>2</sub>
c	23 <sup>13</sup> / <sub>16</sub>	23 <sup>13</sup> / <sub>16</sub>	35 <sup>1</sup> / <sub>2</sub>
d	14 <sup>3</sup> / <sub>8</sub>	14 <sup>3</sup> / <sub>8</sub>	20 <sup>1</sup> / <sub>4</sub>
e	6 <sup>3</sup> / <sub>4</sub>	6 <sup>3</sup> / <sub>4</sub>	9 <sup>1</sup> / <sub>8</sub>
f	7 <sup>11</sup> / <sub>16</sub>	7 <sup>11</sup> / <sub>16</sub>	8 <sup>5</sup> / <sub>8</sub>
g	5 <sup>3</sup> / <sub>8</sub>	5 <sup>3</sup> / <sub>8</sub>	7 <sup>3</sup> / <sub>4</sub>
h	2	2	4 <sup>1</sup> / <sub>2</sub>
j	2	2	5 <sup>1</sup> / <sub>2</sub>
k	7 <sup>3</sup> / <sub>8</sub>	9 <sup>1</sup> / <sub>4</sub>	12
l	2 <sup>1</sup> / <sub>16</sub>	2 <sup>1</sup> / <sub>16</sub>	2 <sup>5</sup> / <sub>8</sub>
m	9 <sup>3</sup> / <sub>8</sub>	9 <sup>3</sup> / <sub>8</sub>	11
n	5 <sup>1</sup> / <sub>4</sub>	5 <sup>1</sup> / <sub>4</sub>	5 <sup>1</sup> / <sub>2</sub>
p	1 <sup>1</sup> / <sub>4</sub>	2	2 <sup>1</sup> / <sub>2</sub>

\* Dimensions are approximate, not for construction

**3C** Circuit Breakers

# 3C

## EPC Circuit Breakers and Enclosures

100/150A Frame, Thermal Magnetic,  
120-240 VAC, 125-250 VDC

Cl. I, Div. 1 & 2, Groups C,D  
Cl. II, Div. 1, Groups E,F,G  
Cl. II, Div. 2, Groups F,G  
Cl. III  
NEMA 3,4,7CD,9EFG

Explosionproof  
Dust-Ignitionproof  
Raintight  
Wet Locations  
Watertight

### Ordering Information:

To order an enclosure complete with circuit breaker where there is a choice of manufacturer, insert the manufacturer's symbol in the designated position of the catalog number.

Enclosures only can be ordered.

Select from listings. For circuit breakers that can be accommodated see Table indicated in Section 6C.

Detailed information on circuit breaker selection is given in Section 6C.

### Non-Interchangeable Trip

Circuit Breaker			Enclosure					
Poles	Voltage Rating	Section 6C Table	Int. Dia.	Hub Size	Ckt. Bkr. Amp Rating	Without Circuit Breaker Cat. #	With Circuit Breaker Cat. #	
2	240VAC or 125- 250VDC	7	7	1¼	15	EPC377	EPC377-◆◆15EB-2	
					20		EPC377-◆◆20EB-2	
					30		EPC377-◆◆30EB-2	
					40		EPC377-◆◆40EB-2	
					50		EPC377-◆◆50EB-2	
					70		EPC377-◆◆70EB-2	
					90		EPC377-◆◆90EB-2	
			100	EPC377-◆◆100EB-2				
			7W	2	70	EPC387	EPC387-◆◆70EB-2	
					90		EPC387-◆◆90EB-2	
					100		EPC387-◆◆100EB-2	
					15		EPC377-◆◆15EB-3	
					20		EPC377-◆◆20EB-3	
					30		EPC377-◆◆30EB-3	
40	EPC377-◆◆40EB-3							
3	240VAC*	7	7	1¼	50	EPC377	EPC377-◆◆50EB-3	
					70		EPC377-◆◆70EB-3	
					90		EPC377-◆◆90EB-3	
					100		EPC377-◆◆100EB-3	
					70		EPC387	EPC387-◆◆70EB-3
					90			EPC387-◆◆90EB-3
					100			EPC387-◆◆100EB-3

\* Square D 240VAC/125-250VDC

◆◆ Circuit Breakers

Manufacturer	Frame	Symbol
General Electric	TEB	TT
Square D	FAL	DT
Cutler-Hammer	ED	WT

# EPC Circuit Breakers and Enclosures

100/150A Frame, Thermal Magnetic, 480-600 VAC, 250 VDC

Cl. I, Div. 1 & 2, Groups C,D  
Cl. II, Div. 1, Groups E,F,G  
Cl. II, Div. 2, Groups F,G  
Cl. III  
NEMA 3,4,7CD,9EFG

Explosionproof  
Dust-Ignitionproof  
Raintight  
Wet Locations  
Watertight

**3C**

**3C** Circuit Breakers

## Non-Interchangeable Trip

Circuit Breaker			Enclosure				
Poles	Voltage Rating	Section 6C Table	Int. Dia.	Hub Size	Ckt. Bkr. Amp Rating	Without Circuit Breaker Cat. #	With Circuit Breaker Cat. #
2	480VAC or 250VDC	8	7	1¼	15	EPC377	EPC377-†15EHD-2
					20		EPC377-†20EHD-2
					30		EPC377-†30EHD-2
					40		EPC377-†40EHD-2
					50		EPC377-†50EHD-2
					70		EPC377-†70EHD-2
			7W	2	90	EPC387	EPC377-†90EHD-2
					100		EPC377-†100EHD-2
					70		EPC387-†70EHD-2
					90		EPC387-†90EHD-2
					100		EPC387-†100EHD-2
3	480VAC†	8	7	1¼	15	EPC377	EPC377-†15EHD-3
					20		EPC377-†20EHD-3
					30		EPC377-†30EHD-3
					40		EPC377-†40EHD-3
					50		EPC377-†50EHD-3
					70		EPC377-†70EHD-3
			7W	2	90	EPC387	EPC377-†90EHD-3
					100		EPC377-†100EHD-3
					70		EPC387-†70EHD-3
					90		EPC387-†90EHD-3
					100		EPC387-†100EHD-3
2	600VAC or 250VDC	9	7	1¼	15	EPC377	EPC377-♦15FDB-2
					20		EPC377-♦20FDB-2
					30		EPC377-♦30FDB-2
					40		EPC377-♦40FDB-2
					50		EPC377-♦50FDB-2
					70		EPC377-♦70FDB-2
			7W	2	90	EPC387	EPC377-♦90FDB-2
					100		EPC377-♦100FDB-2
					70		EPC387-♦70FDB-2
					90		EPC387-♦90FDB-2
					100		EPC387-♦100FDB-2
					110*		EPC387-♦110FDB-2
125*	EPC387-♦125FDB-2						
150*	EPC387-♦150FDB-2						
3	600VAC§	9	7	1¼	15	EPC377	EPC377-♦15FDB-3
					20		EPC377-♦20FDB-3
					30		EPC377-♦30FDB-3
					40		EPC377-♦40FDB-3
					50		EPC377-♦50FDB-3
					70		EPC377-♦70FDB-3
			7W	2	90	EPC387	EPC377-♦90FDB-3
					100		EPC377-♦100FDB-3
					70		EPC387-♦70FDB-3
					90		EPC387-♦90FDB-3
					100		EPC387-♦100FDB-3
					100*		EPC387-♦110FDB-3
125*	EPC387-♦125FDB-3						
150*	EPC387-♦150FDB-3						

† Square D 480VAC/250VDC  
§ Square D 600VAC/250VDC  
\* Square D FAL Frame, 100A Max.

‡ Circuit Breakers  
Manufacturer  
General Electric  
Square D  
Cutler-Hammer  
Frame  
TED  
FAL  
EHD

Symbol  
TT  
DT  
WT

◆ Circuit Breakers  
Manufacturer  
General Electric  
Square D  
Cutler-Hammer  
Frame  
TED  
FAL  
FD, FDB

Symbol  
TT  
DT  
WT

**Non-Interchangeable Trip**

Circuit Breaker			Enclosure				
Poles	Voltage Rating	Section 6C Table	Int. Dia.	Hub Size	Ckt. Bkr. Amp Rating	Without Circuit Breaker Cat. #	With Circuit Breaker Cat. #
2	600VAC or 250VDC	10	11	2½	125	EPC317	EPC317-‡125JB-2
					150		EPC317-‡150JB-2
					175		EPC317-‡175JB-2
					200		EPC317-‡200JB-2
					225		EPC317-‡225JB-2
					250*		EPC317-‡250JB-2
3	600VAC	10	11	2½	125	EPC317	EPC317-‡125JB-3
					150		EPC317-‡150JB-3
					175		EPC317-‡175JB-3
					200		EPC317-‡200JB-3
					225		EPC317-‡225JB-3
					250*		EPC317-‡250JB-3

3C Circuit Breakers

‡ Circuit Breakers

Manufacturer	Frame	Symbol
Cutler-Hammer	JDB	WT
General Electric	TFJ	TT
Square D	KAL	DT

\* General Electric TFJ Frame, 225A Max.

# FLB Circuit Breakers and Enclosures

Cl. I, Div. 1 & 2, Groups C,D  
 Cl. II, Div. 1, Groups E,F,G  
 Cl. II, Div. 2, Groups F,G  
 Cl. III  
 NEMA 3,4,7CD,9EFG

Explosionproof  
 Dust-Ignitionproof  
 Raintight  
 Wet Locations  
 Watertight

**3C**

3C  
Circuit Breakers

## Application:

FLB circuit breakers and enclosures are used:

- for service entrance, feeder or branch circuit protection for lighting, heating, appliance and motor circuits
- in areas made hazardous due to the presence of flammable vapors, gases or combustible dusts
- in damp, wet or corrosive locations
- indoors or outdoors at petroleum refineries, chemical and petrochemical plants and other process industry facilities where similar hazards exist
- to provide disconnect means, short circuit protection and thermal time delay overload protection

## Features:

- Semi-cylindrical body shape for maximum strength at lowest practical weight
- Round threaded covers at each end, set at an angle to provide ready access to interior for ease of wiring
- Breaker is operated by an external handle which can be padlocked in either "ON" or "OFF" positions. Breaker is trip-free of the handle and will open under short circuit or overload even if the handle is locked in the "ON" position
- Bodies have vertical through feed conduit hubs of sizes given in the listings

## Standard Materials:

- Bodies, covers and operating handles – copper-free aluminum
- Operating shafts – stainless steel
- Interior parts – sheet steel

## Standard Finishes:

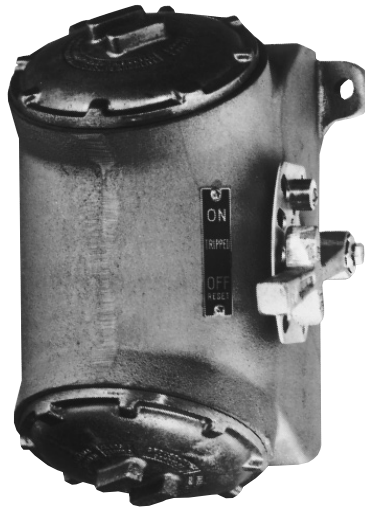
- Copper-free aluminum – natural
- Stainless steel – natural
- Sheet steel – zinc electroplate with chromate finish

## Electrical Rating Ranges:

- 100 and 225 ampere frame sizes

## Certifications and Compliances:

- NEC/CEC:
  - Class I, Division 1 & 2, Groups C,D
  - Class II, Division 1, Groups E,F,G
  - Class II, Division 2, Groups F,G
  - Class III
- NEMA/EEMAC: 3, 4, 7CD, 9EFG
- UL Standard: 698
- CSA Standard: C22.2 No. 30



## Options:

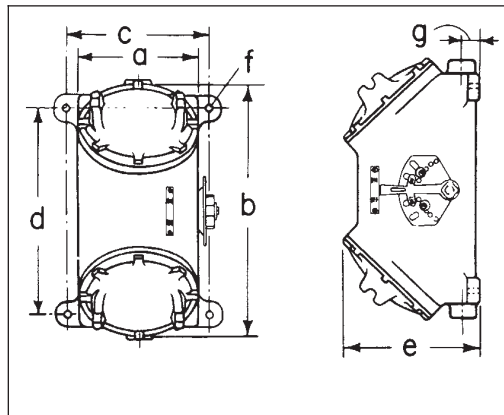
- The following special options are available from factory by adding suffix to Cat. No.:

### Description

2 lugs for neutral connections (50, 100 and 225 amp.)	.....	S146
Ground neutral stud with 3 connectors (50, 100 and 225 amp.)	.....	S168
Standard Breather (Class I, Groups C,D; Class II, Groups E,F,G; Class III)	.....	S219
Standard Drain (Class I, Groups C,D; Class II, Groups E,F,G; Class III)	.....	S198
Standard Breather and Drain (Class I, Groups C,D; Class II, Groups E,F,G; Class III)	.....	S198V
Universal Breather – Drain (Class I, Groups C,D; Class II, Groups F,G)	.....	S454 *
(2) Universal Breather – Drains (Class I, Groups C,D; Class II, Groups F,G)	.....	S454V *
Specify Auxiliary Switch **		
1A/1B (1P2T)	.....	S784
2A/2B (2P2T)	.....	S785

**Suffix to be Added to Encl. Cat. #**

## Dimensions (inches)§



	a	b	c	d	e	f	g
†FLB140, 220, 221	5¼	10¼	6¼	7¼	7	7/16	1½
FLB115, 141, 147, 148, 171, 172, 173, 175, 222, 361, 116, 142, 149, 174, 177, 223, 362	7½	13¾	8½	9¾	9½	7/16	1¾
FLB224, 225, 264, 265, 267, 346	13¾	22½	16¼	9¾	15½	2½/32	2¾

† With two mounting feet, one at upper right and one at lower left  
 \* Not suitable for NEMA 4/EEMAC  
 \* \* Application is limited by circuit breaker design – Consult Factory  
 § Dimensions are approximate, not for construction purposes.

# 3C

## FLB Circuit Breakers and Enclosures

100A Frame, Thermal Magnetic,  
120 VAC/125 VDC, 240 VAC/250 VDC

Cl. I, Div. 1 & 2, Groups C,D  
Cl. II, Div. 1, Groups E,F,G  
Cl. II, Div. 2, Groups F,G  
Cl. III  
NEMA 3,4,7CD,9EFG

Explosionproof  
Dust-Ignitionproof  
Raintight  
Wet Locations  
Watertight

### Ordering Information:

To order an enclosure complete with circuit breaker where there is a choice of manufacturer, insert the manufacturer's symbol in the designated position of the catalog number.

Enclosures only can be ordered.

Select from listings. For circuit breakers that can be accommodated see Table indicated in Section 6C.

Detailed information on circuit breaker selection is given in Section 6C.

### Non-Interchangeable Trip

Circuit Breaker			Enclosure			
Poles	Voltage Rating	Section 6C Table	Hub Size	Ckt. Bkr. Amp Rating	Without Circuit Breaker Cat. #	With Circuit Breaker General Electric "TEB" Cat. #
1	120VAC or 125VDC	7	3/4	15	FLB220	FLB220-TT15-1 FLB220-TT20-1 FLB220-TT30-1 FLB220-TT40-1 FLB220-TT50-1
				20		
				30		
				40		
				50		
2	240VAC or 125- 250VDC	7	1	15	FLB221	FLB221-TT15-2 FLB221-TT20-2 FLB221-TT30-2 FLB221-TT40-2 FLB221-TT50-2
				20		
				30		
			1 1/2	40	FLB223	FLB223-TT70-2 FLB223-TT90-2 FLB223-TT100-2
				70		
				90		
3	240VAC	7	1 1/4	100	FLB222	FLB222-TT15-3 FLB222-TT20-3 FLB222-TT30-3 FLB222-TT40-3 FLB222-TT50-3
				15		
				20		
				30		
			1 1/2	40	FLB223	FLB223-TT70-3 FLB223-TT90-3 FLB223-TT100-3
				50		
				70		
				90		
				100		



# FLB Circuit Breakers and Enclosures

100A Frame, Thermal Magnetic,  
120-480 VAC, 125-250 VDC

Cl. I, Div. 1 & 2, Groups C,D  
Cl. II, Div. 1, Groups E,F,G  
Cl. II, Div. 2, Groups F,G  
Cl. III  
NEMA 3,4,7CD,9EFG

Explosionproof  
Dust-Ignitionproof  
Raintight  
Wet Locations  
Watertight

**3C**



## 100 Ampere Frame Size with Non-Interchangeable Trip 240VAC Max.

Circuit Breaker			Enclosure								
Poles	Voltage Rating	Section 6C Table	Hub Size	Ckt. Bkr. Amp Rating	Without Circuit Breaker Cat. #	With Circuit Breaker Square D "FAL" Cat. #					
1	120VAC or 125VDC	7	¾	15	FLB171	FLB171-DT15-1 FLB171-DT20-1 FLB171-DT30-1 FLB171-DT40-1 FLB171-DT50-1					
				20							
				30							
				40							
				50							
2	240VAC or 125-250VDC	7	1	15	FLB172	FLB172-DT15-2 FLB172-DT20-2 FLB172-DT30-2 FLB172-DT40-2 FLB172-DT50-2					
				20							
				30							
				40							
				50							
			1½	70	FLB174	FLB174-DT70-2 FLB174-DT90-2 FLB174-DT100-2					
				90							
				100							
				3			7	1¼	15	FLB173	FLB173-DT15-3 FLB173-DT20-3 FLB173-DT30-3 FLB173-DT40-3 FLB173-DT50-3
									20		
30											
40											
50											
1½	70	FLB174	FLB174-DT70-3 FLB174-DT90-3 FLB174-DT100-3								
	90										
	100										

## 100 Ampere Frame Size with Non-Interchangeable Trip 480VAC Max.

					Cutler-Hammer "EHD" Cat. #	General Electric "TED" Cat. #								
2	480VAC or 250VDC	8	1	15	FLB140	FLB140-WT15-2 FLB140-WT20-2 FLB140-WT30-2 FLB140-WT40-2 FLB140-WT50-2	FLB140-TT15-2 FLB140-TT20-2 FLB140-TT30-2 FLB140-TT40-2 FLB140-TT50-2							
				20										
				30										
				40										
				50										
			1½	70	FLB142	FLB142-WT70-2 FLB142-WT90-2 FLB142-WT100-2	FLB142-TT70-2 FLB142-TT90-2 FLB142-TT100-2							
				90										
				100										
				3				480VAC	8	1¼	15	FLB141✓	FLB141-WT15-3 FLB141-WT20-3 FLB141-WT30-3 FLB141-WT40-3 FLB141-WT50-3	FLB141-TT15-3 FLB141-TT20-3 FLB141-TT30-3 FLB141-TT40-3 FLB141-TT50-3
											20			
30														
40														
50														
1½	70	FLB142✓	FLB142-WT70-3 FLB142-WT90-3 FLB142-WT100-3	FLB142-TT70-3 FLB142-TT90-3 FLB142-TT100-3										
	90													
	100													

✓ – available with Lightning Service™ delivery. See Section G for complete details.

# 3C

## FLB Circuit Breakers and Enclosures

100A Frame, Thermal Magnetic,  
480 VAC/250 VDC

Cl. I, Div. 1 & 2, Groups C,D  
Cl. II, Div. 1, Groups E,F,G  
Cl. II, Div. 2, Groups F,G  
Cl. III  
NEMA 3,4,7CD,9EFG

Explosionproof  
Dust-Ignitionproof  
Raintight  
Wet Locations  
Watertight

### Non-Interchangeable Trip

Circuit Breaker			Enclosure			
Poles	Voltage Rating	Section 6C Table	Hub Size	Ckt. Bkr. Amp Rating	Without Circuit Breaker Cat. #	With Circuit Breaker Square D "FAL" Cat. #
2	480VAC or 250VDC	8	1¼	15	FLB147	FLB147-DT15-2
				20		FLB147-DT20-2
				30		FLB147-DT30-2
				40		FLB147-DT40-2
				50		FLB147-DT50-2
			1½	70	FLB149-DT70-2	
			90	FLB149-DT90-2		
			100	FLB149-DT100-2		
3	480VAC or 250VDC	8	1¼	15	FLB148	FLB148-DT15-3
				20		FLB148-DT20-3
				30		FLB148-DT30-3
				40		FLB148-DT40-3
				50		FLB148-DT50-3
			1½	70	FLB149-DT70-3	
			90	FLB149-DT90-3		
			100	FLB149-DT100-3		

3C Circuit Breakers

# FLB Circuit Breakers and Enclosures

100A Frame, Thermal Magnetic, 600 VAC/250 VDC

Cl. I, Div. 1 & 2, Groups C,D  
Cl. II, Div. 1, Groups E,F,G  
Cl. II, Div. 2, Groups F,G  
Cl. III  
NEMA 3,4,7CD,9EFG

Explosionproof  
Dust-Ignitionproof  
Raintight  
Wet Locations  
Watertight

**3C**

## Non-Interchangeable Trip

Circuit Breaker			Enclosure			
Poles	Voltage Rating	Section 6C Table	Hub Size	Ckt. Bkr. Amp Rating	Without Circuit Breaker Cat. #	With Circuit Breaker
2	600VAC or 250VDC	9	1¼	15	FLB115	Cutler-Hammer "FDB" Cat. # FLB115-WT15-2 FLB115-WT20-2 FLB115-WT30-2 FLB115-WT40-2 FLB115-WT50-2
				20		
				30		
				40		
				50		
			1½	70	FLB116	FLB116-WT70-2 FLB116-WT90-2 FLB116-WT100-2
90						
100						
3	600VAC	9	1¼	15	FLB115	FLB115-WT15-3 FLB115-WT20-3 FLB115-WT30-3 FLB115-WT40-3 FLB115-WT50-3
				20		
				30		
				40		
				50		
			1½	70	FLB116	FLB116-WT70-3 FLB116-WT90-3 FLB116-WT100-3
90						
100						
3	600VAC	9	1¼	15	FLB361	General Electric "TED" Cat. # FLB361-TT15-3 FLB361-TT20-3 FLB361-TT30-3 FLB361-TT40-3 FLB361-TT50-3
				20		
				30		
				40		
				50		
			1½	70	FLB362	FLB362-TT70-3 FLB362-TT90-3 FLB362-TT100-3
90						
100						

3C  
Circuit Breakers

# 3C

## FLB Circuit Breakers and Enclosures

100A Frame, Thermal Magnetic,  
600 VAC/250 VDC

Cl. I, Div. 1 & 2, Groups C,D  
Cl. II, Div. 1, Groups E,F,G  
Cl. II, Div. 2, Groups F,G  
Cl. III  
NEMA 3,4,7CD,9EFG

Explosionproof  
Dust-Ignitionproof  
Raintight  
Wet Locations  
Watertight

### Non-Interchangeable Trip

Circuit Breaker			Enclosure			
Poles	Voltage Rating	Section 6C Table	Hub Size	Ckt. Bkr. Amp Rating	Without Circuit Breaker Cat. #	With Circuit Breaker Square D "FAL" Cat. #
2	600VAC or 250VDC	9	1¼	15	FLB175	FLB175-DT15-2
				20		FLB175-DT20-2
				30		FLB175-DT30-2
				40		FLB175-DT40-2
				50		FLB175-DT50-2
			1½	70	FLB177-DT70-2	
	90	FLB177-DT90-2				
	100	FLB177-DT100-2				
3		9	1¼	15	FLB175	FLB175-DT15-3
				20		FLB175-DT20-3
				30		FLB175-DT30-3
				40		FLB175-DT40-3
				50		FLB175-DT50-3
			1½	70	FLB177-DT70-3	
	90	FLB177-DT90-3				
	100	FLB177-DT100-3				

3C Circuit Breakers

# FLB Circuit Breakers and Enclosures

225A Frame, Thermal Magnetic, 600 VAC/250 VDC

Cl. I, Div. 1 & 2, Groups C,D  
Cl. II, Div. 1, Groups E,F,G  
Cl. II, Div. 2, Groups F,G  
Cl. III  
NEMA 3,7CD,9EFG

Explosionproof  
Dust-Ignitionproof  
Raintight  
Wet Locations  
Watertight

**3C**

3C Circuit Breakers

## Non-Interchangeable Trip

Circuit Breaker			Enclosure			
Poles	Voltage Rating	Section 6C Table	Hub Size	Ckt. Bkr. Amp Rating	Without Circuit Breaker Cat. #	With Circuit Breaker
2	600VAC or 250VDC	10	2½	125	FLB264	<b>Cutler-Hammer</b> "JDB"*** Cat. # FLB264-WT125-2
				150		FLB264-WT150-2
				175		FLB264-WT175-2
				200		FLB264-WT200-2
				225		FLB264-WT225-2
3	600VAC	10	2½	125	FLB264	FLB264-WT125-3
				150		FLB264-WT150-3
				175		FLB264-WT175-3
				200		FLB264-WT200-3
				225		FLB264-WT225-3
2	600VAC or 250VDC	10	2½	125	FLB346	<b>General Electric</b> "TFJ" Cat. # FLB346-DT125-2
				150		FLB346-DT150-2
				175		FLB346-DT175-2
				200		FLB346-DT200-2
				225		FLB346-DT225-2
3	600VAC	10	2½	125	FLB224 or FLB346	FLB224-TT125-3
				150		FLB224-TT150-3
				175		FLB224-TT175-3
				200		FLB224-TT200-3
				225		FLB224-TT225-3
						<b>Square D</b> "KAL" Cat. # FLB346-DT125-3 FLB346-DT150-3 FLB346-DT175-3 FLB346-DT200-3 FLB346-DT225-3

## Interchangeable Trip

Poles	Voltage Rating	Section 6C Table	Hub Size	Ckt. Bkr. Amp Rating	Without Circuit Breaker Cat. #	With Circuit Breaker
2	600VAC or 250VDC	11	3	125	FLB267	<b>Cutler-Hammer</b> "JD"* Cat. # FLB267-WT125-2
				150		FLB267-WT150-2
				175		FLB267-WT175-2
				200		FLB267-WT200-2
				225		FLB267-WT225-2
3	600VAC	11	3	125	FLB267 or FLB225	FLB267-WT125-3
				150		FLB267-WT150-3
				175		FLB267-WT175-3
				200		FLB267-WT200-3
				225		FLB267-WT225-3
						<b>General Electric</b> "TFK" Cat. # FLB225-TT125-3 FLB225-TT150-3 FLB225-TT175-3 FLB225-TT200-3 FLB225-TT225-3

\* Formerly "KB"

\*\* Formerly "JB"

**Application:**

- EFD circuit breakers and enclosures are used:
- for branch circuit protection for lighting, appliance, and motor circuits
  - in areas made hazardous due to the presence of flammable vapors, gases or combustible dusts
  - in corrosive locations
  - for installation at petroleum refineries, chemical and petrochemical plants and other process industry facilities where similar hazards exist
  - to provide disconnect means, short circuit protection and thermal time delay overload protection

**Features:**

- Small, compact enclosures with accurately ground, wide flange on both body and cover for flamtight joint
- Dead-end (EFD) or through feed (EFDC) hubs  $\frac{3}{4}$ " to 1" sizes
- Breaker mounted on cover and back wired for ease of installation
- Breaker can be padlocked in "ON" or "OFF" positions with trip-free handle mechanism

**Standard Materials:**

- Bodies and covers – *Feraloy*<sup>®</sup> iron alloy
- Operating handles – type 6/6 nylon
- Operating shafts – stainless steel

**Standard Finishes:**

- *Feraloy* – electrogalvanized and aluminum acrylic paint
- Type 6/6 nylon – black
- Stainless steel – natural

**Electrical Ratings:**

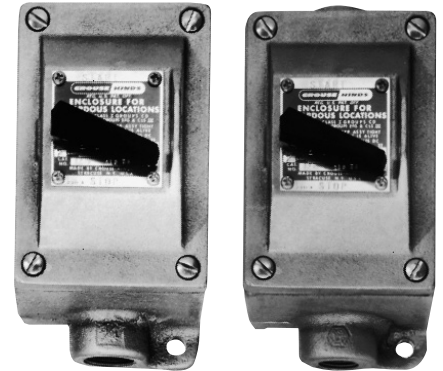
- Single pole – 120/240 vac max.
- Trip ratings – 15, 20 and 30 amp.

**Certifications & Compliances:**

- NEC:
  - Class I, Division 1 & 2, Groups B\*,C,D
  - Class II, Division 1, Groups E,F,G
  - Class II, Division 2, Groups F,G
  - Class III
- NEMA 3,7B\*CD,9EFG,12

**Options:**

- For use in Group B hazardous areas – add suffix GB to catalog number.\*



EFD dead end

EFDC through feed

**With Square D Type "QOU" Circuit Breakers**

Hub Size	15 Amp Cat. #	20 Amp Cat. #	30 Amp Cat. #
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**EFD Single Gang (Dead end)**

$\frac{3}{4}$	EFD21104	EFD21105	EFD21106
1	EFD31104	EFD31105	EFD31106

**EFDC Single Gang (through feed)**

$\frac{3}{4}$	EFDC21104	EFDC21105	EFDC21106
1	EFDC31104	EFDC31105	EFDC31106

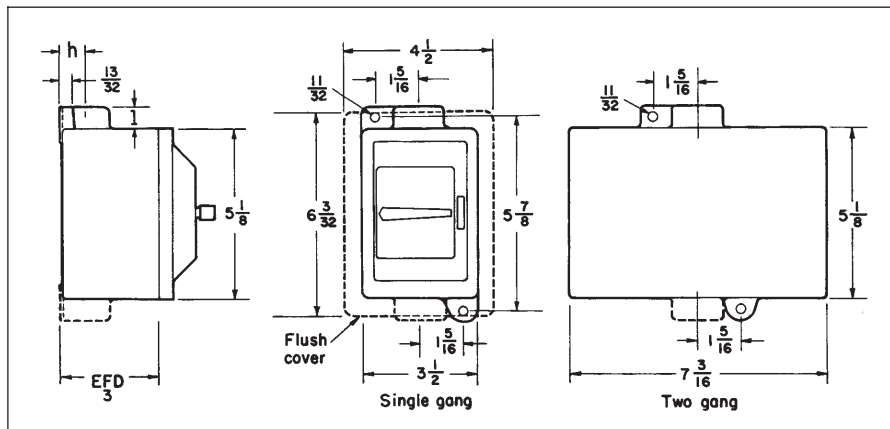
**EFD Two Gang (Dead end)**

$\frac{3}{4}$	EFD22104	EFD22105	EFD22106
1	EFD32104	EFD32105	EFD32106

**EFDC Two Gang (through feed)**

$\frac{3}{4}$	EFDC22104	EFDC22105	EFDC22106
1	EFDC32104	EFDC32105	EFDC32106

**Dimensions (inches)\*\***



Hub Size	Dim. "h"	Dim. "H"
$\frac{3}{4}$	$\frac{7}{8}$	$1\frac{13}{16}$
1	1	$1\frac{15}{16}$

\*\* Dimensions are approximate, not for construction purposes.

\* Seals must be installed within  $\frac{1}{2}$ " of each conduit opening, for Group B use.