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

Explosionproof
Dust-Ignitionproof
Raintight
Wet Locations
Watertight

Applications:

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.



EBM motor control enclosures accommodate popular makes of circuit breakers

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

- UL Standards UL1203 Hazardous (classified) locations/CSA Standards: C22.2 No. 30
- UL Subject 2062 High AIC rating (Interrupting Capacity) For Groups C & D only

240V 65,000 RMS Symm. Amperes 480V 50,000 RMS Symm. Amperes 600V 25,000 RMS Symm. Amperes

• NEMA 3, 3R, 4‡, 4X††, 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

[‡]Enclosure not suitable for NEMA 4 or 4X with cover mounted operators

^{††}With S752 or S753.

^{*1000} Ampere Frame (max. 800 ampere trip)

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

EBMB Series Circuit Breakers and Enclosures

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

Explosionproof Dust-Ignitionproof Raintight Wet Locations Watertight

Options:

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

Catalog Number System

EBMBB-①-WT30FDB36-②

- ① Options in this position are additions to the enclosure and should be listed alphanumerically.
- ② Options in this position are modifications to the circuit breaker and should be listed alphanumerically.

	sition Cat. #	Suffix
Ambient compensated circuit breaker trip setting	(2)	AC
Pilot light, 120VAC, red jewel, w/blank indicating	_	
Pilot light, 120VAC, green jewel, w/blank	1)	J1†
indicating plate		J3 †
LED pilot lights in place of standard incandescent pilot lamps		LED
Start-stop pushbuttons (requires 2 spaces)		PB23 †‡
Space heater, 120 volt, 25 watts		R11 R22
Space heater, 240 volt, 25 watts Space heater, 480 volt, 25 watts		R22 R44
Insulated neutral w/2 connectors		S146
Grounded neutral stud w/3 connectors (50, 100, 225 amp)	(1)	S178
• Std. drain, Class I, B, C & D; Class II, E F & G,		
Class III Std. breather & drain, Class I, B, C & D; Class II,	1)	S756 ‡
E, F & G; Class III		S756V ‡
External epoxy finish		S752
Internal and external epoxy finish Aux. switch on circuit breaker, 1A & 1B	1	S753
contacts	2	S784
Aux. switch on circuit breaker, 2A & 2B contacts	2	S785
• 12 point term. block – 30 amp, 300 V	1	S786
 General purpose control relay, 4 pole N.O., contacts rated 10A @ 600V, coil 120VAC, 50–60 		
Hertz	1	S787



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

†If desired, markings on indicating plates may be added to catalog number. Select from the list of standard markings and DSL Legend Plate listings see page 449. ‡Enclosure not suitable for NEMA 4 or 4X with cover mounted operators. ††With S752 or S753.

^{*1000} Ampere Frame (max. 800 ampere trip.)

3C EBMB Series 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 CI. III

Explosionproof **Dust-Ignitionproof** Raintight Wet Locations NEMA 3, 3R, 4‡, 4X††, 7BCD, 9EFG, 12 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.

EBMB Series Enclosures for Circuit Breakers

Circuit	Breaker		Enclosures				
Poles⊮	Voltage Rating	Circuit Breaker Frame Size	Without Circuit Breaker Cat. #	Circuit Breaker Amp Rating	With Circuit Breaker Cat. #		
3	240VAC or 125–250VDC	100 Amp. Frame	EBMBA *	15A through 70A	EBMBA TT@TEB32		
3	240VAC or 125–250VDC	150 Amp. Frame		10A through 70A	EBMBA TT@TEB32		
3	480VAC or 250VDC	100 Amp. Frame		15A through 70A	EBMBA ①@334		
3	480VAC or 250VDC	150 Amp. Frame	EBMBA † §	15A through 100A	EBMBA TT@TED34		
3	600VAC	150 Amp. Frame	EBMBA † § ■		EBMBA ①@336		
3	240VAC or 125–250VDC	100 Amp. Frame	EBMBB		EBMBB TT@TEB32		
3 3 3	240VAC or 125–250VDC 480VAC or 250VDC 480VAC or 250VDC	150 Amp. Frame 100 Amp. Frame 150 Amp. Frame	EBMBB † § EBMBB * EBMBB † §	10A through 150A 15A through 100A 10A through 150A	EBMBB TT©TEB32 EBMBB ①②③34 EBMBB TT©TED34		
3	600VAC	150 Amp. Frame	EBMBB † § ■ EBMBG EBMBK	15A through 150A	EBMBB ①2336		
3	600VAC	250 Amp. Frame		70A through 250A	EBMBG ①2336		
3	600VAC or 250VDC	400 Amp. Frame		100A through 400A	EBMBK ①2336		
3	600VAC or 250VDC	600 Amp. Frame	EBMBL ♠	250A through 600A	EBMBL WT2336		
	600VAC or 250VDC	800 Amp. Frame	EBMBL ♥	300A through 800A	EBMBL WT2336		

①Circuit Breakers:

Manufacturer	Symbol
Cutler-Hammer	WT
General Electric	П

② Select Trip Setting from below:

100 Amp Frame (EHD)* − 15, 20, 25, 30, 35, 40, 45, 50, 60, 70, 80, 90, 100

150 Amp. Frame (TEB, TED, HFD)†\$ ■ − 10, 15, 20, 25, 30, 35, 40, 45, 50, 60, 70, 80, 90, 100, 110, 125, 150

225 / 250 Amp Frame (JD, JDB, HJD) ♠ − 70, 80, 90, 100, 110, 125, 150, 175, 200, 225, 250

400 Amp. Frame (KD, KDB, HKD) ▼ − 100, 125, 150, 175, 200, 225, 250, 300, 350, 400

600 Amp Frame (LD, HLD) € − 250, 300, 350, 400, 450, 500, 600 800 Amp Frame (MD) ♥ − 300, 350, 400, 450, 500, 600, 700, 800

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

Manufacturer	100 Amp. Frame and 150 Amp. Frame 240V 480V 600V AC AC AC			250 Amp. Frame © ▲ 600VAC	400 Amp. Frame 600VAC	600 Amp. Frame 600VAC	800 Amp. Frame 600VAC
Cutler-Hammer	_	EHD	FDB HFD ♣	JD¢ JDB ⊹ HJD ♣	KD≎ KDB ⊹ HKD★	LD HLD★	MD

General Electric TEB TED TED

- ♣-Non-Interchangeable Trip Unit ♣-Cutler-Hammer HFD and HJD are rated at 65 kAIC at 480V and 25 kAIC at 600V.
- ★-Cutler-Hammer HKD and HLD are rated at 65 kAIC at 480V and 35 kAIC at 600V.
- ‡ Enclosure not suitable for NEMA 4 or 4X with cover mounted operators.
- ††With S752 or S753.
- 포 Depending on availability from the circuit breaker manufacturer 1 and 2 pole can be furnished. Information available upon request. Example of an adjusted part number EBMBB WT100EDH34 becomes EBMBB WT100EDH24.

 * EBMBA will accept 15 through 70 amp. trip, EBMBB will accept 15 through 100 amp. trip.

 † EBMBA will accept 10 through 70 amp. trip, EBMBB will accept 10 through 150 amp. trip.

- § General Electric TEB frame available 10 through 100 amp. trip. TED frame available 10 through 150 amp. trip. TED frame available 10 through 150 amp. trip. TED frame available 10 through 150 amp. trip. Cutler-Hammer FDB and HFD frame available 15 through 150 amp. trip.

 ▲ Cutler-Hammer JD and JDB types are 250 amp. frame, available 70, 90, 100 and 125 through 250 amp. trip. Vectler-Hammer KD and KDB frames available 100 through 400 amp. trip. Cutler-Hammer LD and HLD frame available 300 through 400 and 500, 600 amp. trip. Cutler-Hammer MD frame available 400 and 500 through 800 amp. trip.



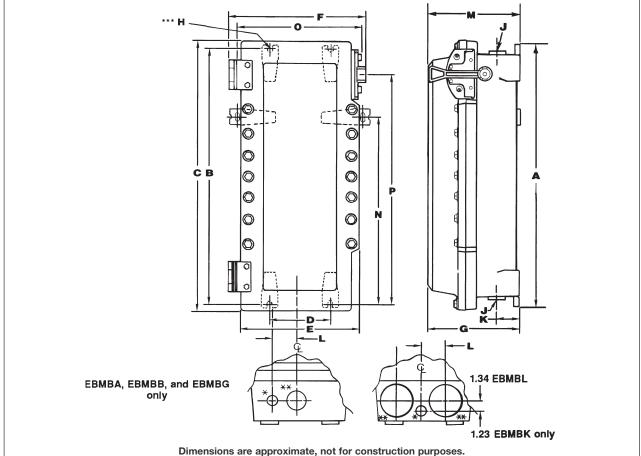
EBMB Series Circuit Breakers and Enclosures

Cl. I, Div. 1 & 2, Groups B, C, D Cl. II, Div. 1, Groups E, F, G Cl. II, Div. 2, Groups F, G CI. III

Explosionproof **Dust-Ignitionproof** Raintight Wet Locations NEMA 3, 3R, 4‡, 4X††, 7BCD, 9EFG, 12 Watertight

Dimensions

In Inches:



Enclosure	Enclosure								J** Co							
Only	Only Size		sions						Size		Dimensions					
Cat. #	Symbol	Α	В	С	D	E	F	G	D&T§	w/RE	K	L	M	N	0	Р
100 Amp F	rame															
EBMBA	Α	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 15	0 Amp Frame	;														
EBMBB	В	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 25	0 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 F	rame															
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 an	d 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

^{* 1&}quot; 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 ½" diameter bolts for mounting all enclosures. (see H) Note: Lifting bracket will accommodate a maximum 2 ton hook.

^{†1000} Ampere Frame (max. 800 ampere trip) ‡Enclosure not suitable for NEMA 4 or 4X with cover mounted operators. Breather and drain entries must be plugged for NEMA 4 rating.

^{††}With S752 or S753. §Drilled & Tapped.