EB Series Circuit Breakers and Enclosures

Explosionproof, Dust-Ignitionproof

NEC: Class I, Division 1 and 2, Groups B, C, D Class II, Division 1 and 2, Groups E, F, G NEMA 3R, 4X▼, 7BCD, 9EFG

Applications

- · Thermal magnetic circuit breaker provides over current and short circuit protection and safe disconnect.
- Thermal time delay overload protection for service entrance, feeder or branch circuits used for lighting, heating, motors and equipment.
- Suitable for use in indoor or outdoor classified locations.

Features

- Corrosion-resistant, non-sparking copperfree aluminum with two-coat epoxy finish. Shafts and bushings are stainless steel (300 Series).
- Interior components removable as an assembly to facilitate wire pulling.
- Ample space for wiring and installation of accessories.
- Breaker handle has lock bracket that can be padlocked in ON or OFF position-accommodates up to three padlocks.
- Tapped, plugged openings provided as standard for optional drain and breather.
- Hinged (left side), removable covers secured by stainless steel (300 Series) hex-head, screwdriver-slotted captive "quick bolts."
- Mating surfaces precision milled.
- Easy mounting-four removable mounting brackets have keyhole openings. Straps are steel with triple-coat finish.
- Positive-operating breaker handle has spring steel actuator that self-locates on breaker handle to prevent damage to breaker toggle if door is closed without aligning door with breaker toggle position.
- Each standard feed-thru opening (one at top and one at bottom) has an aluminum reducing bushing to protect conductor insulation.

Standard Materials

- Housings: copperfree (4/10 or 1% max.) aluminum
- Shaft, bushings and exposed hardware: stainless steel (300

Standard Finishes

- Housings: two-coat epoxy enamel
- Stainless steel shaft, bushings and exposed hardware: passivated

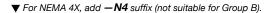
Must be listed in alphanumeric sequence at the end of the catalog number.

- Ground stud (grounded neutral or grounding wire), add suffix
- Grounded neutral lug, add suffix -GNL.
- Insulated neutral lug, add suffix -INL.
- Drain and breather set, add suffix $-\mathbf{DV}$.
- Shunt trip (specify voltage), add suffix -ST.
- For +50 °C (+122 °F) breaker rating, add suffix $-\mathbf{V}$.

NEC Certifications and Compliances

- UL Standard: UL 1203
- UL Classified: E84577







EB Series Circuit Breakers and Enclosure Options and Accessories

Explosionproof, Dust-Ignitionproof

NEC: Class I, Division 1 and 2, Groups B, C, D Class II, Division 1 and 2, Groups E, F, G Class III NEMA 3R, 4XT, 7BCD, 9EFG

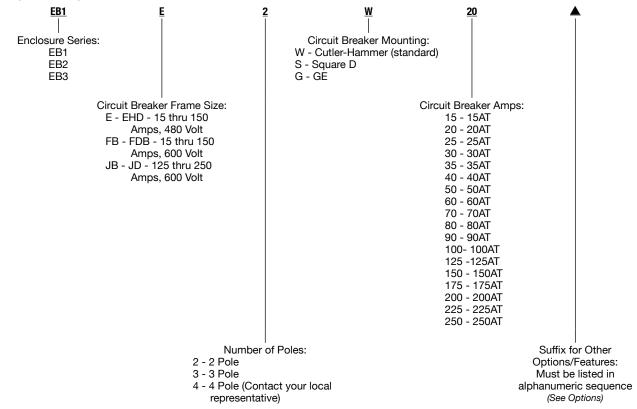
Ordering Instructions

Provide catalog number from listing tables. Enclosures are supplied with Cutler-Hammer circuit breakers as standard. Table below shows enclosure sizes for Cutler-Hammer and other makes of breakers that can be accommodated, and are available on special order. To order enclosure with other than Cutler-Hammer breaker, replace the **W** in the catalog number with the Manufacturer's Symbol for the desired breaker of another make: **G**—General Electric; **S**—Square D.

Catalog Number Explanation

Appleton catalog numbers incorporate a simple, systemized method of designating enclosure and component specifications. For example, an EB Series enclosure with breaker is cataloged as follows:

Catalog Numbering Guide



[▲] To complete the catalog number please add the appropriate suffix for other options/features. These suffixes can be found in the modifications table in this section. ▼ For NEMA 4X, add —N4 suffix (not suitable for Group B).



EB Series Circuit Breakers and Enclosures

Explosionproof, Dust-Ignitionproof

NEC: Class I, Division 1 and 2, Groups B, C, D Class II, Division 1 and 2, Groups E, F, G Class III NEMA 3R, 4X▼, 7BCD, 9EFG

		Circ	Catalog Numbers			
	Frame Size		Tap Size (Inches) ①	Amp Rating	Enclosure Only	
	EHD Frame	- 15 Amps thr	u 100 Amps; 480 Vac	(60 Hz) or 250		
		2	1-1/2	ì 15	EB1	EB1EH2W15
				20		EB1EH2W20
				30		EB1EH2W30
				40		EB1EH2W40
	EHD			50		EB1EH2W50
				60		EB1EH2W60
			2	70	EB2	EB2EH2W70
				90		EB2EH2W90
				100		EB2EH2W100
				15		EB1EH3W15
(a) (e) (5)		3	1-1/2	20	EB1	EB1EH3W20
				30		EB1EH3W30
				40		EB1EH3W40
6 0 0	EHD			50		EB1EH3W50
9	LIID			60		EB1EH3W60
				70		EB2EH3W70
0			2	90	EB2	EB2EH3W90
			2	100	LDZ	EB2EH3W100
	EDB Erama	15 Amne thr	u 150 Amps; 600 Vac		Vdo	LDZLI ISVV 100
10 0	FDB Flaille	— 15 Amps um	u 150 Amps, 000 vac	15	vuc .	EB1FB2W15
EB2				20		EB1FB2W13
						EB1FB2W30
			1-1/2	30 40	EB1	
		2		40 50		EB1FB2W40
	FDB			60		EB1FB2W50
	ו טט		1-1/2	70	EB2	EB1FB2W60 EB2FB2W70
				90		
				100		EB2FB2W90
						EB2FB2W100
				125		EB2FB2W125
				150		EB2FB2W150
-		3		15		EB1FB3W15
6 2				20		EB1FB3W20
	FDB			30	EB1	EB1FB3W30
				40		EB1FB3W40
				50		EB1FB3W50
				60		EB1FB3W60
			2 250 Amps; 600 Vac (70		EB2FB3W70
				90	ED0	EB2FB3W90
				100	EB2	EB2FB3W100
1 0				125		EB2FB3W125
	ID F ······			150	Vala	EB2FB3W150
	שר rame –	EDO IDOMACE				
0 0		3	3	125		EB3JB2W125
FDO				150		EB3JB2W150
EB3				175		EB3JB2W175
				200	– EB3 –	EB3JB2W200
				225		EB3JB2W225
	JD			250		EB3JB2W250
				125		EB3JB3W125
				150		EB3JB3W150
				175		EB3JB3W175
				200		EB3JB3W200
				225		EB3JB3W225
				250		EB3JB3W250

① Bolt-On Series conduit openings are tapped to size shown. A removable aluminum reducer bushing is furnished for each opening which, when installed, makes the conduit opening one size smaller.

[▼] For NEMA 4X, add **-N4** suffix (not suitable for Group B).



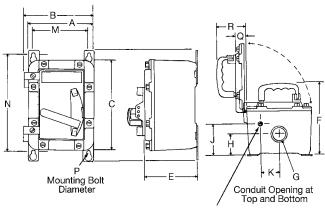
[©] Cutler-Hammer breaker provided as standard. For GE breaker change W to G; For Square D breaker change C to S.

EB Series Circuit Breaker and Enclosure

Explosionproof, Dust-Ignitionproof

NEC: Class I, Division 1 and 2, Groups B, C, D Class II, Division 1 and 2, Groups E, F, G Class III NEMA 3R, 4X*, 7BCD, 9EFG

Dimensions in Millimeters (Inches)



3/4"/19.0 mm Conduit Opening Top and Bottom, Furnished with 3/4"-1/2"/19.0-127.0 mm Reducers and 1/2"/127.0 mm Close-Up Plugs

Dimension	EB1	EB2	EB3
Α	196.8 (7.75)	231.9 (9.13)	376.6 (14.38)
В	209.5 (8.25)	244.6 (9.63)	387.3 (15.25)
C ①	308.1 (12.13)	358.9 (14.13)	511.3 (20.13)
D	374.6 (14.75)	425.4 (16.75)	625.6 (24.63)
Е	165.1 (6.50)	182.6 (7.19)	270.0 (10.63)
F	225.5 (8.88)	244.6 (9.63)	330.2 (13.00)
G ②	38.1 (1.50)	50.8 (2.00)	76.2 (3.00)
Н	57.9 (2.38)	69.0 (2.72)	116.5 (4.59)
J	86.6 (3.41)	95.2 (3.75)	169.9 (6.69)
K	65.0 (2.56)	65.0 (2.56)	104.9 (4.13)
M	155.7 (6.13)	190.5 (7.50)	308.1 (12.13)
N	336.5 (13.25)	384.3 (15.13)	581.1 (22.88)
Р	9.5 (0.375)	9.5 (0.375)	17.1 (0.675)
Q	26.6 (1.50)	44.4 (1.75)	57.1 (2.25)
R	98.5 (3.88)	104.9 (4.13)	120.6 (4.75)

Approximate Weight in Kilograms (Pounds)

	EB1	EB2	EB3
Enclosure Only	6.34 (14)	12.23 (27)	27.70 (61)
With Breaker ③	7.70 (17)	14.95 (33)	32.20 (71)

① For Drains and Breathers, add 50.8 mm (2") to dimension C. Close-up plugs furnished when enclosures are ordered without drains and breathers.



② Conduit openings are tapped to size shown. A removable reducer bushing is furnished for each opening which, when installed, makes the conduit opening one size smaller.

³ Approximate weights with breaker reflect largest size that will fit in each respective enclosure.

[▼] For NEMA 4X, add **– N4** suffix (not suitable for Group B).