

NE Series Bolted Circuit Breakers and Enclosures

Explosionproof, Dust-Ignitionproof, Watertight

2- and 3-Pole, Non-Interchangeable Trip. Bolted Enclosure Type.

NEC/CEC:

Class I, Division 1 and 2, Groups B, C, D

Class II, Division 1 and 2, Groups E, F, G

Class III

NEMA 4, 4X, 7BCD, 9EFG

Application

- Explosionproof circuit breaker enclosures are used where hazardous materials are handled or stored.
- These units are used for overload and short circuit protection, control of lighting and power circuits.

Features

- Precision machined flame path between box and cover.
- Bolt on stainless steel slotted mounting feet.
- Stainless steel, captive Quad-Lead® cover bolts are standard (disengaged in 1-1/2 turns).
- Ground lug package and installation instructions for termination of ground wire enclosed.
- External operating handle with stops for limiting handle travel.
- Breaker operators can be locked in the ON or OFF position (up to 3 padlocks).
- External flange maximizes internal space.
- Standard outlets top and bottom for line and load wiring.
- Plugged 1/2" outlets top and bottom for breather and drain.
- Breakers mounted on a galvanized steel removable pan.
- Enclosures are designed to accept GE ▶, Square D ■ and Cutler-Hammer ✦ circuit breakers.
- O-ring gasket insures watertight integrity.
- 2- and 3-pole versions are standard. For 4-pole versions, contact your local representative.
- For 65,000 AIC ratings contact your local representative.

Standard Materials

- Bodies and covers: copperfree (4/10 of 1% max.) aluminum
- Cover bolts, hinges, breaker and operator shafts: stainless steel
- Hinges: stainless steel
- O-ring: neoprene

Standard Finishes

- Bodies and covers: gray epoxy powder coat inside and outside standard

Options

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

- Auxiliary switch (1A or 1B), add suffix —**AS1**.
- Auxiliary switch (2A or 2B), add suffix —**AS2**.
- Breather, NEMA 4X (includes outlet and installation), add suffix —**BR**.
- Drain, NEMA 4X (includes outlet and installation), add suffix —**DN**.
- External grounding stud, add suffix —**EGS**.
- Plastic nameplate, 2" x 4", 1/8" black letters on white surface, 3 lines max, specify legend, add suffix —**NP**.
- Shunt trip (specify voltage), add suffix —**ST**.
- Under voltage release (specify voltage), add suffix —**UV**.
- For +50 °C (+122 °F) breaker rating, add suffix —**V**.
- For 65,000 AIC rating, contact your local sales representative.

NEC Certifications and Compliances

- UL Standard: UL 1203
- UL Listed: E84577
- CSA Standard: C22.2 No. 25, C22.2 No. 30, C22.2 No. 5.1
- CSA Certified: 052308



▶ GE is a registered trademark of General Electric Company.

■ Square D is a registered trademark of Schneider Electric.

✦ Cutler-Hammer is a registered trademark of Eaton Corporation.

NE Series Bolted Circuit Breakers and Enclosures

Explosionproof, Dust-Ignitionproof, Watertight

2- and 3-Pole, Non-Interchangeable Trip. Bolted Enclosure Type.

NEC/CEC:

Class I, Division 1 and 2, Groups B, C, D

Class II, Division 1 and 2, Groups E, F, G

Class III

NEMA 4, 4X, 7BCD, 9EFG

Catalog Numbering Guide

N	E	A	B	1	3	2	15	C	▲
O-Z/Gedney NE Series	E - Explosionproof	Enclosure Size: A - 15 - 50 AT B - 60-100AT C - 125-150AT E - 175-225AT F - 250-400AT D - 400-600AT L - 700-800AT G - 1000-1200AT	Enclosure Type: B - Bolted	Breaker Frame: 1 - 100-150AF 2 - 250AF 4 - 400AF 6 - 600AF 8 - 800AF 12 - 1200AF	Number of Poles: 3 - 3 Pole 4 - 4 Pole (Contact your local representative)	Line Voltage: 2 - 240 4 - 480 6 - 600	Breaker Trip: 15 - 15AT 20 - 20AT 25 - 25AT 30 - 30AT 35 - 35AT 40 - 40AT 50 - 50AT 60 - 60AT 70 - 70AT 80 - 80AT 90 - 90AT 10 - 100AT 12 - 125AT 15 - 150AT 17 - 175AT 20 - 200AT 22 - 225AT 25 - 250AT 30 - 300AT 35 - 350AT 40 - 400AT 45 - 450AT 50 - 500AT 60 - 600AT 70 - 700AT 80 - 800AT 10 - 1000AT 12 - 1200AT	Indicate Breaker Manufacturer: C - Cutler-Hammer (standard) S - Square D G - GE	Suffix for Other Options/Features: Must be listed in alphanumeric sequence (See Options)

DISTRIBUTION EQUIPMENT: NEC/CEC HAZARDOUS LOCATION SWITCHES

OZGEDNEY

▲ 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.

Visit our website at www.emerson.com or contact us at (800) 621-1506.

© March 2017



NE Series Bolted Circuit Breakers and Enclosures

Explosionproof, Dust-Ignitionproof, Watertight

2- and 3-Pole, Non-Interchangeable Trip. Bolted Enclosure Type.

NEC/CEC:

Class I, Division 1 and 2, Groups B, C, D

Class II, Division 1 and 2, Groups E, F, G

Class III

NEMA 4, 4X, 7BCD, 9EFG

Circuit Breaker Interrupting Ratings (Symmetrical RMS Amps)

Breaker Type	240 Vac	480 Vac	600 Vac
Cutler-Hammer ⁺			
EHD	18,000	14,000	—
FD	65,000	35,000	18,000
HFD	100,000	65,000	25,000
JD	65,000	35,000	18,000
HJD	100,000	65,000	25,000
KD	65,000	35,000	25,000
HKD	100,000	65,000	35,000
LD	65,000	35,000	22,000
HLD	100,000	65,000	35,000
MDL	65,000	50,000	25,000
HMDL	100,000	65,000	35,000
ND	65,000	50,000	25,000
HND	100,000	65,000	35,000
GE [►]			
TED	18,000	18,000	14,000
THED	65,000	25,000	18,000
TFK	25,000	22,000	18,000
THFK	65,000	25,000	18,000
TJK4	42,000	30,000	22,000
THJK4	65,000	35,000	25,000
TJK6	42,000	30,000	22,000
THJK6	65,000	35,000	25,000
TKM8	42,000	30,000	22,000
THKM8	65,000	35,000	25,000
TKM12	42,000	30,000	22,000
THKM12	65,000	35,000	25,000

DISTRIBUTION EQUIPMENT: NEC/CEC HAZARDOUS LOCATION SWITCHES

0ZGEDNEY

► GE is a registered trademark of General Electric Company.

+ Cutler-Hammer is a registered trademark of Eaton Corporation.

Visit our website at www.emerson.com or contact us at (800) 621-1506.

© March 2017



NE Series Bolted Circuit Breakers and Enclosures

Explosionproof, Dust-Ignitionproof, Watertight

2- and 3-Pole, Non-Interchangeable Trip. Bolted Enclosure Type.

NEC/CEC:

Class I, Division 1 and 2, Groups B, C, D

Class II, Division 1 and 2, Groups E, F, G

Class III

NEMA 4, 4X, 7BCD, 9EFG

Breaker Frame Size	Breaker Type/ Interrupting Capacity ①	Volts	Amp Rating	Catalog Numbers ② ▲		Standard Conduit Outlets (Inches)
				2-Pole	3-Pole	
100	EHD 18,000 AIC @ 240 Vac	480 Vac, 125/250 Vdc	15	NEAB12215C	NEAB13215C	1-1/2
			20	NEAB12220C	NEAB13220C	
			25	NEAB12225C	NEAB13225C	
			30	NEAB12230C	NEAB13230C	
			35	NEAB12235C	NEAB13235C	
			40	NEAB12240C	NEAB13240C	2
			50	NEAB12250C	NEAB13250C	
			60	NEBB12260C	NEBB13260C	
			70	NEBB12270C	NEBB13270C	
			80	NEBB12280C	NEBB13280C	
150	FD 65,000 AIC @ 240 Vac	600 Vac, 125/250 Vdc	125	NECB12212C	NECB13212C	2-1/2
			150	NECB12215C	NECB13215C	
100	EHD 14,000 AIC @ 480 Vac	480 Vac, 125/250 Vdc	15	NEAB12415C	NEAB13415C	1-1/2
			20	NEAB12420C	NEAB13420C	
			25	NEAB12425C	NEAB13425C	
			30	NEAB12430C	NEAB13430C	
			35	NEAB12435C	NEAB13435C	
			40	NEAB12440C	NEAB13440C	2
			50	NEAB12450C	NEAB13450C	
			60	NEBB12460C	NEBB13460C	
			70	NEBB12470C	NEBB13470C	
			80	NEBB12480C	NEBB13480C	
150	FD 35,000 AIC @ 480 Vac	600 Vac, 125/250 Vdc	125	NECB12412C	NECB13412C	2-1/2
			150	NECB12415C	NECB13415C	
150	FD 18,000 AIC @ 600 Vac	600 Vac, 125/250 Vdc	15	NEAB12615C	NEAB13615C	1-1/2
			20	NEAB12620C	NEAB13620C	
			25	NEAB12625C	NEAB13625C	
			30	NEAB12630C	NEAB13630C	
			35	NEAB12635C	NEAB13635C	
			40	NEAB12640C	NEAB13640C	2
			50	NEAB12650C	NEAB13650C	
			60	NEBB12660C	NEBB13660C	
			70	NEBB12670C	NEBB13670C	
			80	NEBB12680C	NEBB13680C	
150			90	NEBB12690C	NEBB13690C	2
			100	NEBB12610C	NEBB13610C	
			125	NECB12612C	NECB13612C	2-1/2
			150	NECB12615C	NECB13615C	

① For higher interrupting capacities, contact your local representative.

② Cutler-Hammer breaker provided as standard. For GE breaker change **C** to **G**; For Square D breaker change **C** to **S**.

▲ To complete the catalog number please add the appropriate suffix for other options/features. These suffixes can be found under Options.

Visit our website at www.emerson.com or contact us at (800) 621-1506.

© March 2017



DISTRIBUTION EQUIPMENT: NEC/CEC HAZARDOUS LOCATION SWITCHES

OZGEDNEY

NE Series Bolted Circuit Breakers and Enclosures

Explosionproof, Dust-Ignitionproof, Watertight

2- and 3-Pole, Non-Interchangeable Trip. Bolted Enclosure Type.

NEC/CEC:

Class I, Division 1 and 2, Groups B, C, D

Class II, Division 1 and 2, Groups E, F, G

Class III

NEMA 4, 4X, 7BCD, 9EFG

DISTRIBUTION EQUIPMENT: NEC/CEC HAZARDOUS LOCATION SWITCHES

Breaker Frame Size	Breaker Type/ Interrupting Capacity ①	Volts	Amp Rating	Catalog Numbers ② ▲		Standard Conduit Outlets (Inches)
				2–Pole	3–Pole	
250	JD 18,000 AIC @ 600 Vac	600 Vac, 125/250 Vdc	70	NEEB22670C	NEEB23670C	3
			90	NEEB22690C	NEEB23690C	
			100	NEEB22610C	NEEB23610C	
			125	NEEB22612C	NEEB23612C	
	JD 35,000 AIC @ 480 Vac		175	NEEB22617C	NEEB23617C	
			200	NEEB22620C	NEEB23620C	
			225	NEEB22622C	NEEB23622C	
			250	NEFB22625C	NEFB23625C	
400	KD 25,000 AIC @ 600 Vac	600 Vac, 125/250 Vdc	125	NEFB42612C	NEFB43612C	4
			175	NEFB42617C	NEFB43617C	
			200	NEFB42620C	NEFB43620C	
			225	NEFB42622C	NEFB43622C	
	KD 35,000 AIC @ 480 Vac		250	NEFB42625C	NEFB43625C	
			300	NEFB42630C	NEFB43630C	
			350	NEFB42635C	NEFB43635C	
			400	NEFB42640C	NEFB43640C	
600	LD 25,000 AIC @ 600 Vac	600 Vac, 125/250 Vdc	450	NEDB62645C	NEDB63645C	4
	LD 35,000 AIC @ 480 Vac		500	NEDB62650C	NEDB63650C	
			600	NEDB62660C	NEDB63660C	
800	MDL 25,000 AIC @ 600 Vac	600 Vac, 125/250 Vdc	300	NELB82630C	NELB83630C	(2) 4
			350	NELB82635C	NELB83635C	
			400	NELB82640C	NELB83640C	
			450	NELB82645C	NELB83645C	
	MDL 50,000 AIC @ 480 Vac		500	NELB82650C	NELB83650C	
			600	NELB82660C	NELB83660C	
			700	NELB82670C	NELB83670C	
			800	NELB82680C	NELB83680C	
1200	MDL 25,000 AIC @ 600 Vac	600 Vac, 125/250 Vdc	600	NEGB122660C	NEGB123660C	(2) 4
	MDL 50,000 AIC @ 480 Vac		800	NEGB122680C	NEGB123680C	
			1000	NEGB122610C	NEGB123610C	
			1200	NEGB122612C	NEGB123612C	

▲ To complete the catalog number please add the appropriate suffix for other options/features. These suffixes can be found under Options.

① For higher interrupting capacities, contact your local representative.

② Cutler-Hammer breaker provided as standard. For GE breaker change **C** to **G**; For Square D breaker change **C** to **S**.

Visit our website at www.emerson.com or contact us at (800) 621-1506.

© March 2017



OZGEDNEY

NE Bolted Circuit Breaker Enclosure

Explosionproof, Dust-Ignitionproof, Watertight

2- and 3-Pole, Non-Interchangeable Trip. Bolted Enclosure Type.

NEC/CEC:

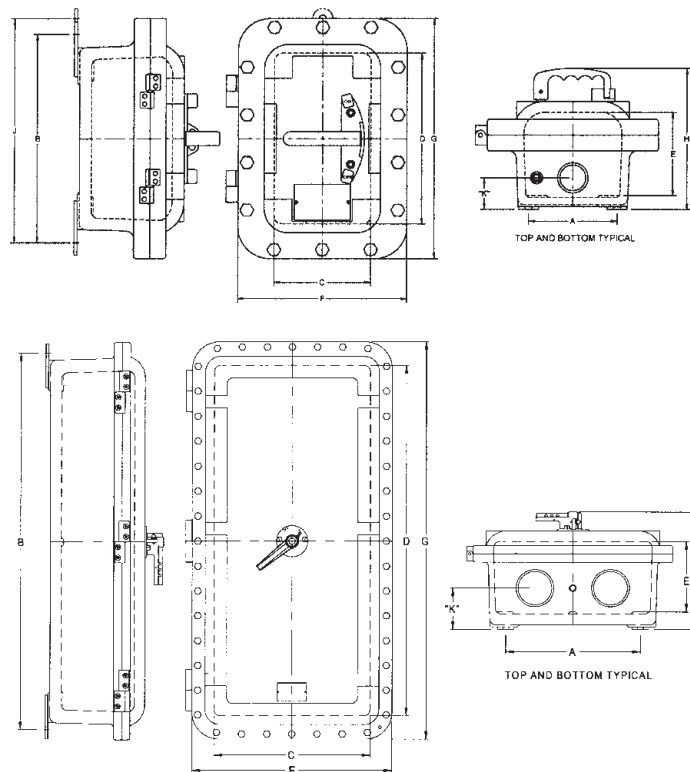
Class I, Division 1 and 2, Groups B, C, D

Class II, Division 1 and 2, Groups E, F, G

Class III

NEMA 4, 4X, 7BCD, 9EFG

Dimensions in Millimeters (Inches)



Enclosure Only

Enclosure Size	Catalog Number	Dia. Number	Dimensions in Millimeters (Inches)										Number of Outlets	Dimension mm (in) K	Approximate Weight kgs (lbs)
			Mounting			Inside			Outside						
			A	B	J	C	D	E	F	G	H				
A	AEAB	1	139.7 (5.50)	333.5 (13.13)	358.9 (14.13)	155.7 (6.13)	273.0 (10.75)	133.3 (5.25)	270.0 (10.63)	387.3 (15.25)	224.5 (8.84)	2	50.8 (2.00)	17.24 (38)	
B	AEBB	1	152.4 (6.00)	457.2 (18.00)	782.6 (19.00)	165.1 (6.50)	406.4 (16.00)	139.7 (5.50)	279.4 (11.00)	520.7 (20.50)	227.8 (8.97)	2	58.6 (2.31)	25.85 (57)	
C	AECB	1	260.3 (10.25)	574.8 (22.63)	Not Available	289.0 (11.38)	508.0 (20.00)	162.0 (6.38)	406.4 (16.00)	638.3 (25.13)	243.5 (9.59)	2	88.9 (3.50)	47.17 (104)	
E	AEEB	1	215.9 (8.50)	689.1 (27.13)	Not Available	285.7 (11.25)	758.9 (29.88)	183.8 (7.63)	406.4 (16.00)	749.3 (29.50)	311.9 (12.28)	2	101.6 (4.00)	65.77 (145)	
F	AEFB-250	1	241.3 (9.50)	692.1 (27.25)	Not Available	285.7 (11.25)	758.9 (29.88)	204.7 (8.06)	416.0 (16.38)	889.0 (35.00)	313.4 (12.34)	2	106.4 (4.19)	77.11 (170)	
F	AEFB-400	2	241.3 (9.50)	692.1 (27.25)	Not Available	285.7 (11.25)	758.9 (29.88)	204.7 (8.06)	416.0 (16.38)	889.0 (35.00)	320.8 (12.63)	2	106.4 (4.19)	77.11 (170)	
D	AEDB	2	409.7 (16.13)	1035.0 (40.75)	Not Available	457.2 (18.00)	1079.5 (42.50)	193.8 (7.63)	346.2 (13.63)	962.1 (37.88)	325.3 (12.81)	2	109.4 (4.31)	103.42 (228)	
L	AELB	3	406.4 (16.00)	1152.6 (45.38)	Not Available	473.2 (18.63)	1073.1 (42.25)	215.9 (8.50)	606.5 (23.88)	1216.1 (47.88)	361.9 (14.25)	4	127.0 (5.00)	190.06 (419)	
G	AEGB	4	543.1 (21.38)	1270.0 (50.00)	Not Available	508.0 (20.00)	1524.0 (60.00)	254.0 (10.00)	635.0 (25.00)	1651 (65.00)	534.0 (21.38)	6	111.2 (4.38)	257.19 (567)	