Clamped EBMXB explosionproof circuit breakers

Cl. I, Div. 1 & 2, Groups Ba, C, D

Cl. I, Zones 1 & 2

Cl. II, Groups E, F, G

CI. III

NEMA 3R, 4X, 7BCD, 9EFG

Explosionproof Dust-ignitionproof

Applications:

- Operating where flammable liquids or gases are handled, processed or used
- Damp, wet, dirty, dusty, hazardous areas where ultimate corrosion and ingress protection is required
- Harsh and hazardous motor control environments, including refineries, chemical and petrochemical plants, corrosive process facilities, food and beverage, marine and mining
- For service entrance, feeder or branch circuit protection for lighting, heating, appliance and motor circuits

Features:

- Patented clamped enclosure design reduces opportunity for missing, stripped or broken bolts
- · Simple clamp actuation for user-friendly access to enter enclosure
- 65 kAIC at 480V enclosure rating for high interrupting capacity applications
- -50°C to +60°C temperature range for extreme environments
- Thermal magnetic and electronic break trip option for short circuit and overcurrent protection
- Side operated handle provides visual confirmation of proper operator alignment while cover is open and can be padlocked in either ON or OFF positions for OSHA compliance
- Neoprene cover gasket provides NEMA 4X protection for hose down applications
- Maximum wiring room compliance with National Electrical Code requirements allows for easy and safe installation
- Rugged, corrosion-resistant, cast copper-free aluminum construction provides NEMA 4X protection
- Semi-clamshell enclosure design, with an external flanged ground joint between body and cover, provides increased access to interior components
- Minimum enclosure-to-enclosure spacing with little interference between the opened cover and adjacent enclosure
- Pre-drilled mounting plate for simple breaker installation
- · Detachable tap-on mounting feet
- Steel brackets supplied standard for lifting during installation
- Bodies have top and bottom drilled and tapped entries for power and control conduits; removable reducers are supplied standard to accommodate smaller size conduits; all conduit entries are plugged

Electrical ratings:

- 3-pole, 600 VAC
- Breaker frames:
 - Eaton: EG/PDG, JG, LG (up to 500A) 8
 - Square D: HGL (up to 100A)
 - GE: TED (up to 100A)



Certifications and compliances:

NEC/CEC:

- Class I, Divisions 1 & 2, Groups Bo, C, D
- Class I, Zones 1 & 2
- Class II, Groups E, F, G
- Class III

UL standards:

- UL1203 Explosionproof and Dust-ignitionproof Electrical Equipment for use in Hazardous (Classified) Locations
- UL2062 High AIC Ratings for Groups C, D

Voltage (AC)	RMS symmetrical amps			
240, 480	65,000			
600	35,000			

CSA standard:

cUL to CSA C22.2 No. 30

Additional certifications:

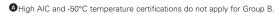
- UL/cUL certified for -50°C to +60°C
- · SASO Certificate of Conformity

Environmental ratings:

• NEMA 3R, 4X, 7BCD, 9EFG

Standard materials:

- Body and cover copper-free aluminum
- Clamp anodized copper-free aluminum
- External hardware stainless steel
- Internal parts galvanized steel



15-100A rated 600Y/347 VAC maximum; 125-500A rated 600 VAC maximum.



Cl. I, Div. 1 & 2, Groups Bo, C, D Cl. I, Zones 1 & 2

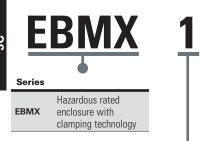
Cl. II, Groups E, F, G

CI. III

NEMA 3R, 4X, 7BCD, 9EFG

Ordering information:

Part number example EBMX1B-W050 AIC



Enclosure	size	

1	15A to 100A
2	125A to 200A
3	225A to 500A

Broaker	manaraotaroi
w	Eaton
D	Square D (up to 100A)
G	GE (up to 100A)

runction	<u> </u>
В	Breaker in clamped EBMX enclosure

Break	er Trip ©		
015	15A	125	125A
020	20A	150	150A
025	25A	175	175A
030	30A	200	200A
035	35A	225	225A
040	40A	250	250A
050	50A	300	300A
060	60A	350	350A
070	70A	400	400A
080	80A	500	500A
090	90A		
100	1004	_	

Options **G**

AIC	65kAIC at 480V, 35kAIC at 600V
BST	Shunt trip, 120V
ET G	Electronic trip (thermal magnetic standard)
нт	Ambient compensated breaker; +60°C enclosure rating
MT	Freeze-tested breaker, -50°C enclosure rating
R11	Space heater, 25 watts, 120V
R22	Space heater, 25 watts, 240V
R44	Space heater, 25 watts, 480V
RLN	120V red LED light with ON legend plate
RLN2	240V red LED light with ON legend plate
RLN4	480V red LED light with ON legend plate
S214	External ground lug
S752	External epoxy coating
S753	Internal and external epoxy coating
S756V	Breather and drain (Class I, Groups B, C, D)
S784	Auxiliary switch on circuit breaker: 1A & 1B
S785	Auxiliary switches on circuit breaker: 2A & 2B
S786	12-point terminal block, 30 amp, 300V

Reference table:

Breaker Electronic Trip Dial Settingso

Amperage	Range (A)
50	20, 25, 30, 32, 40, 45, 50
100	40, 45, 50, 63, 70, 80, 90, 100
150	63, 80, 90, 100, 110, 125, 150, 160
250	100, 125, 150, 160, 170, 200, 225, 250
400	160, 200, 225, 250, 300, 350, 400
600	250, 300, 350, 400, 450, 500, 600

- **⊙**High AIC and -50°C temperature certifications do not apply for Group B.
- **1**5-100A rated 600Y/347 VAC maximum; 125-500A rated 600 VAC maximum.
- List selected options in alphanumeric order.
- GElectronic trip breakers are available in size 2 and 3 enclosures only; 600 VAC maximum.





Cl. I, Div. 1 & 2, Groups Bo, C, D

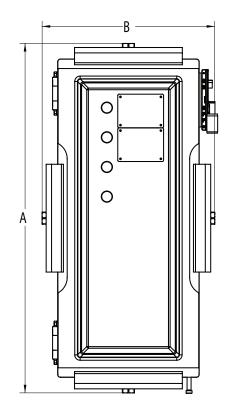
Cl. I, Zones 1 & 2

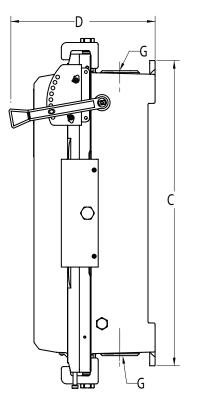
CI. II, Groups E, F, G

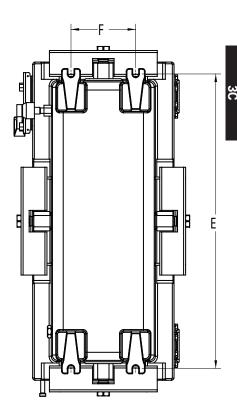
CI. III

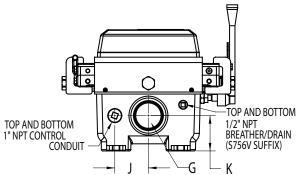
NEMA 3R, 4X, 7BCD, 9EFG

Dimensions (in inches):









							G		_	
Enclosure Size	A	В	С	D	E	F	Drilled and tapped	With reducer	J	К
1	22.11	15.98	18.04	12.86	17.13	6.00	2 NPT	1.5 NPT	3.12	3.01
2	32.40	16.28	28.31	13.56	27.25	6.00	3 NPT	2.5 NPT	3.12	3.28
3	42.28	17.93	38.15	13.85	37.25	6.00	3 NPT	2.5 NPT	3.93	3.56