

EMN manual line starters and enclosures

600 VAC maximum

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, 12

Explosionproof
 Dust-ignitionproof
 Raintight
 Wet Locations

2C

Applications:

EMN manual line starters and enclosures are used:

- For manual across-the-line starting of single and polyphase AC motors
- To provide motor running protection and manual starting and stopping
- In locations made hazardous due to the presence of flammable vapors, gases or highly combustible dusts
- For installation in petroleum refineries, chemical and petrochemical plants and other process industry facilities
- In damp, wet or corrosive locations

Features:

- Compact, rectangular enclosure makes optimum use of internal space
- Operating handle may be padlocked in either ON or OFF position
- Compact design allows installation in area where space is limited
- Furnished with drilled and tapped conduit openings
- Polyphase manual starters are furnished with third overload relay as standard

Certifications and compliances:

NEC/CEC:

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

UL standard:

- UL1203

CSA standard:

- C22.2 No. 14

Environmental ratings:

- NEMA/EEMAC 3, 7CD, 9EFG, 12

Standard materials:

- Bodies, covers and toggle operator – copper-free aluminum
- Operating shaft – stainless steel
- Internal operating bail – sheet steel or aluminum

Standard finishes:

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

Electrical ratings:

- Starter sizes 0, 1

Options:

Description	Suffix
• 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
• Two universal breather/drains (Class I, Groups C, D; Class II, Groups F, G)	S454V

Ordering information:

Select the complete catalog number below and specify horsepower, voltage, frequency, number of phases, RPM, type and full load ampere rating of motor – or specify ampere rating of heaters. Two-pole starters require one heater; three-pole starters have three heaters.

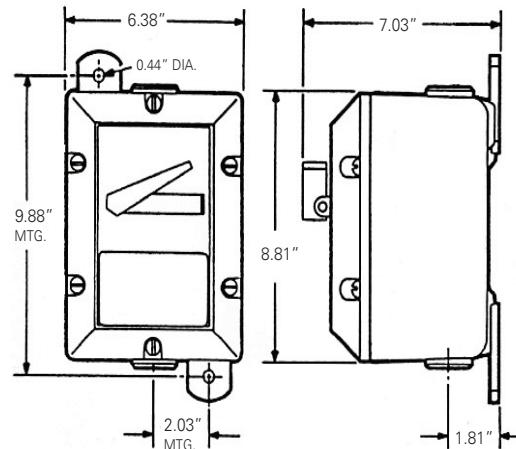
Enclosure only can be ordered. See listing below.

Motor starter			Enclosure			
NEMA size	Poles (phase)	Maximum horsepower ratings			Cat. # Without starter	Cat. # With starter
		115 VAC	208 / 240 VAC	480 / 600 VAC		
M-0	2 (1-phase)	1	2		EMN24	EMN24 W20
M-1	2 (1-phase)	2	3		EMN24	EMN24 W21
M-0	3 (3-phase)	2	3	5	EMN24	
M-1	3 (1-phase)	2	3		EMN24	EMN24 W30
	3 (3-phase)	3	7.5	10	EMN24	EMN24 W31

Motor starters

Manufacturer	Symbol
Cutler-Hammer	W

Dimensions (in inches):



A Enclosures are furnished with two 1 1/4" drilled and tapped openings with 1 1/4" to 1" reducers.

B Dimensions are approximate, not for construction purposes.

