

AE Threaded Combination and Non-Combination Full Voltage Motor Starters

Explosionproof, Dust-Ignitionproof, Watertight

Units Provide Disconnecting Means and Undervoltage, Circuit and Motor Running Protection.

NEC:

Class I, Division 1 and 2, Groups C, D
Class II, Division 1 and 2, Groups E, F, G
Class III
NEMA 4, 4X, 7CD, 9EFG

Applications

- “AE” series threaded type combination and non-combination motor starters are used in areas where hazardous materials are handled or stored.
- These units provide disconnecting means, undervoltage protection, circuit protection and motor running protection.
- Full voltage across the line starting and stopping of squirrel cage induction motors.
- Remote starting and stopping motor as needed.

Features

- Cast on slotted mounting feet.
- Ground lug package and installation instructions for termination of ground wires.
- Reset operator with stainless steel shaft.
- Breaker handles can be locked in the ON or OFF position (combination starters only).
- Drilled and tapped outlets.
- Standard outlets are determined by motor starter size.
- Outlets for remote control wiring.
- Plugged 1/2” outlets top and bottom for breather and drain.
- Three plugged 3/4” NPSM outlets drilled and tapped for needed lights or switches.
- Ample space is provided for installation and wiring of additional accessories.
- Painted removable pan.
- Enclosures are designed to accept GE [▶], Square D [■] and Cutler-Hammer ⁺ motor starters. For other brands—contact your local representative. Cutler-Hammer furnished standard unless otherwise specified.
- Motor circuit protectors are available on combination starters.
- Enclosures furnished with or without components.
- Readily accessible circuit breaker mounted outside the center housing.
- Rated for NEMA 4X (gray epoxy-coated inside and outside).
- Acme screw type square threads designed to prevent seizing.
- Bell threads are located inside the housing—protects against damage or contaminants.

Standard Materials

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

Standard Finishes

- Housings: epoxy - coated inside and outside

Options

- See modifications page.

NEC Certifications and Compliances

- UL Standards: UL 508, UL 698, UL 1203
- UL Classified: E84577



Exterior



Interior

▶ 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.

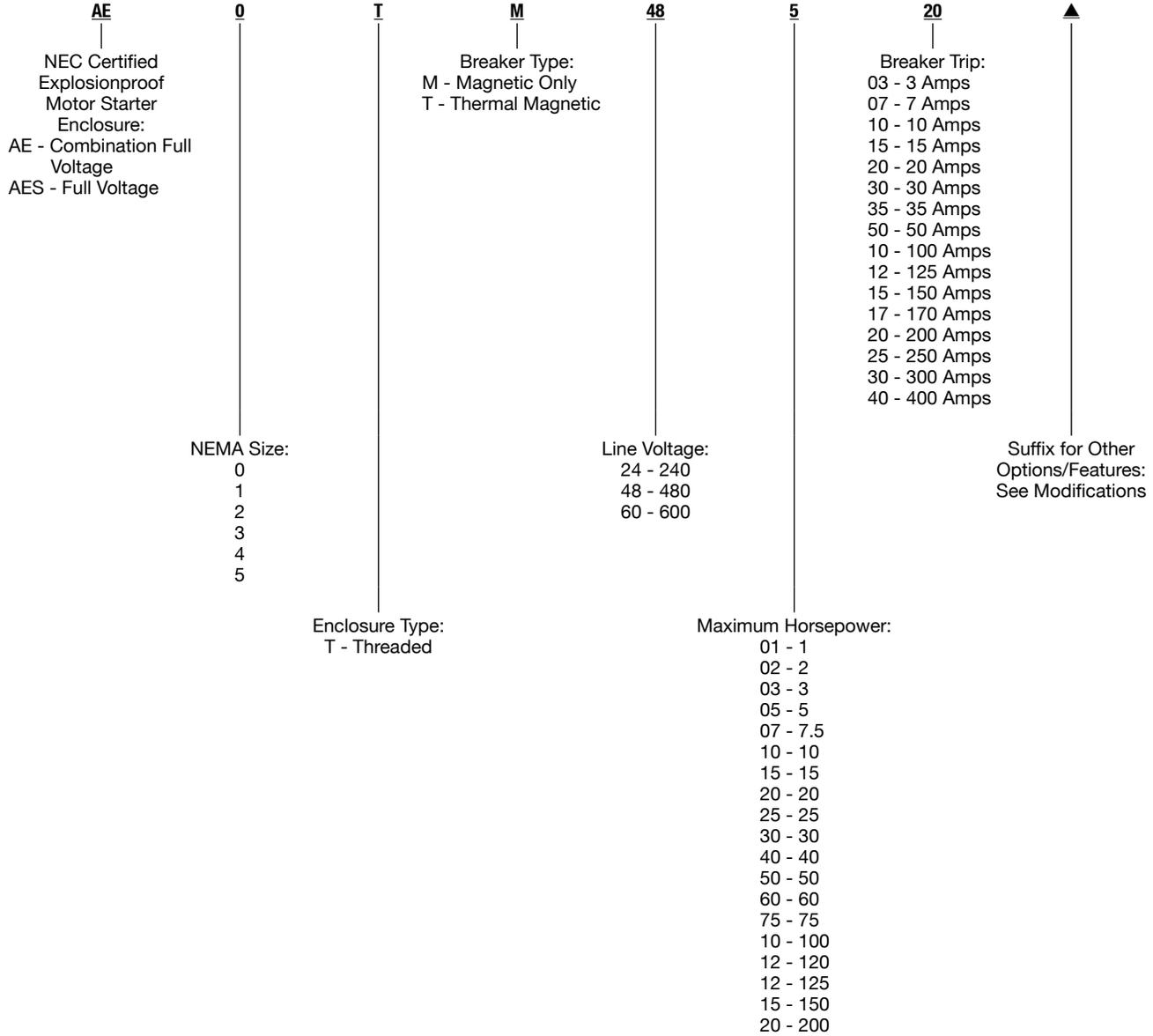
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Explosionproof, Dust-Ignitionproof, Watertight

Units Provide Disconnecting Means and Undervoltage, Circuit and Motor Running Protection.

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Catalog Numbering Guide



AE Threaded Combination Full Voltage Motor Starters With Magnetic Breakers

Explosionproof, Dust-Ignitionproof, Watertight

Threaded Enclosure. 3-Phase, 60 Hertz, Nonreversing.

NEC:

Class I, Division 1 and 2, Groups C, D
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 NEMA 4, 4X, 7CD, 9EFG

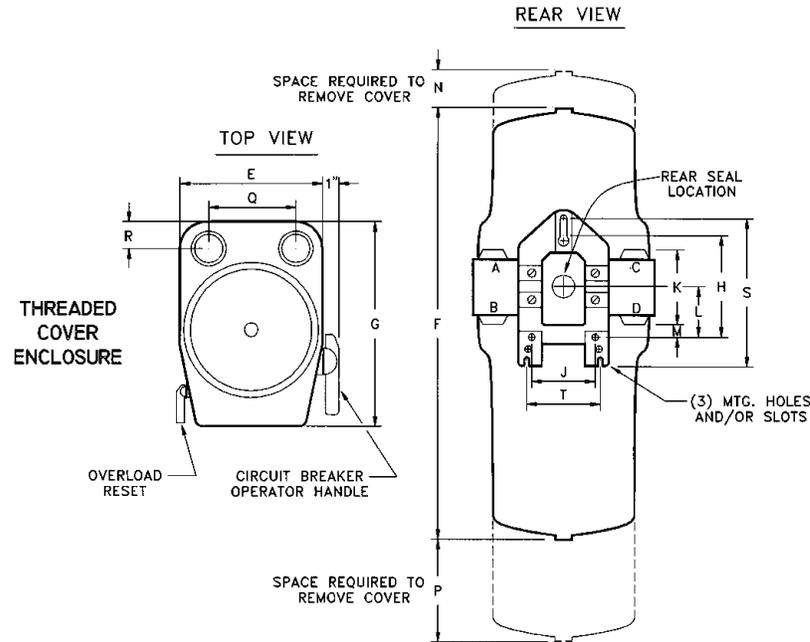
Line Voltage	Maximum Horsepower	NEMA Size	Breaker Amps	Catalog Numbers [▲]	Weight kg (lb)	Conduit Sizes Loc. A, B, C and D		Mounting Hardware Set Catalog Number
						Standard (Inches)	Maximum (Inches)	
240	1	0	7	AE0TM-240107	32 (70)	1-1/4	1-1/2	AMH2
	3		15	AE0TM-240315				
	7	1	30	AE1TM-240730	50 (110)	1-1/2	1-1/2	
	15	2	50	AE2TM-241550				
	30	3	100	AE3TM-243010	57 (125)	2	2-1/2	
	50	4	150	AE4TM-245015				
	100	5	400	AE5TM-241040	150 (330)	4	4	AMH5
480	1	0	3	AE0TM-480103	32 (70)	1-1/4	1-1/2	AMH2
	3		7	AE0TM-480307				
	5		15	AE0TM-480515				
	7	1	15	AE1TM-480715	32 (70)	1-1/4	1-1/2	
	10		30	AE1TM-481030				
	15	2	30	AE2TM-481530	50 (110)	1-1/2	1-1/2	
	25	2	50	AE2TM-482550				
	30	3	50	AE3TM-483050	57 (125)	2	2-1/2	
	50		100	AE3TM-485010				
	100	4	150	AE4TM-481015	57 (125)	2-1/2	2-1/2	
200	5	400	AE5TM-482040	150 (330)	4	4	AMH5	
600	1	0	3	AE0TM-600103	32 (70)	1-1/4	1-1/2	AMH2
	3		07	AE0TM-600307				
	5		15	AE0TM-600515				
	7	1	15	AE1TM-600715	32 (70)	1-1/4	1-1/2	
	10		30	AE1TM-601030				
	20	2	30	AE2TM-602030	50 (110)	1-1/2	1-1/2	
	25		2	50				
	40	3	50	AE3TM-604050	57 (125)	2	2-1/2	
	50		3	100				
	60	4	100	AE4TM-606010	57 (125)	2-1/2	2-1/2	
	100		4	150				
	120	5	400	AE5TM-601240	150 (330)	4	4	
200	5		400	AE5TM-602040				AMH5

▲ To complete the catalog number please add the appropriate suffix for other options/features. Suffixes, see AE Threaded Combination and Non-Combination Full Voltage Motor Starter Modifications.

AE Threaded Combination/Non-Combination Full Voltage Motor Starter

Explosionproof, Dust-Ignitionproof, Watertight

Threaded Enclosure. 3-Phase, 60 Hertz, Nonreversing.



Dimensions in Millimeters (Inches) — Dimensions are approximate, not for construction

Dimensions	AE0T and AES0T	AE1T and AES1T	AE2T and AES2T	AE3T and AES3T	AE4T and AES4T	AE5T and AES5T
E	270.0 (10.63)	270.0 (10.63)	352.5 (13.88)	339.8 (13.38)	339.8 (13.38)	9482.6 (19.00)
F	660.4 (26.00)	660.4 (26.00)	774.7 (30.50)	1003.3 (39.50)	1003.3 (39.50)	1358.9 (53.50)
G	387.3 (15.25)	387.3 (15.25)	488.9 (19.25)	514.3 (20.25)	514.3 (20.25)	704.8 (27.75)
H	203.2 (8.00)	203.2 (8.00)	203.2 (8.00)	203.2 (8.00)	203.2 (8.00)	—
J	120.6 (4.75)	120.6 (4.75)	120.6 (4.75)	120.6 (4.75)	120.6 (4.75)	—
K	136.6 (5.38)	136.6 (5.38)	133.3 (5.25)	190.5 (7.50)	190.5 (7.50)	285.75 (11.25)
L	95.5 (3.75)	95.5 (3.75)	95.5 (3.75)	95.2 (3.75)	95.2 (3.75)	146.0 (5.75)
M	26.9 (1.06)	26.9 (1.06)	26.9 (1.06)	—	—	3.3 (0.13)
N	190.5 (7.50)	190.5 (7.50)	190.5 (7.50)	196.8 (7.75)	266.7 (10.50)	406.4 (16.00)
P	279.4 (11.00)	279.4 (11.00)	457.2 (18.00)	584.2 (23.00)	584.2 (23.00)	524.0 (20.63)
Q	185.6 (7.31)	185.6 (7.31)	238.2 (9.38)	219.2 (8.63)	219.2 (8.63)	289.0 (11.38)
R	52.3 (2.06)	52.3 (2.06)	69.8 (2.75)	76.2 (3.00)	76.2 (3.00)	107.4 (4.32)
S	—	—	—	—	—	304.8 (12.00)
T	—	—	—	—	—	165.1 (6.50)

Approximate Weight in Kilograms (Pounds)

For Enclosure Only	AE0T	AE1T	AE2T	AE3T	AE4T	AE5T
	27.0 (60)	27.0 (60)	45.0 (100)	49.5 (110)	49.5 (110)	94.5 (210)
	AES0T	AES1T	AES2T	AES3T	AES4T	AES5T
27.0 (60)	27.0 (60)	42.75 (95)	45.0 (100)	45.0 (100)	87.7 (195)	