

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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Catalog Numbering Guide

AE

NEC Certified
Explosionproof
Motor Starter
Enclosure:
AE - Combination Full
Voltage
AES - Full Voltage

0

NEMA Size:

0
1
2
3
4
5

T

Enclosure Type:
T - Threaded

M

Breaker Type:
M - Magnetic Only
T - Thermal Magnetic

48

Line Voltage:

24 - 240
48 - 480
60 - 600

5

Maximum Horsepower:

01 - 1
02 - 2
03 - 3
05 - 5
07 - 7.5
10 - 10
15 - 15
20 - 20
25 - 25
30 - 30
40 - 40
50 - 50
60 - 60
75 - 75
10 - 100
12 - 120
12 - 125
15 - 150
20 - 200

20

Breaker Trip:
03 - 3 Amps
07 - 7 Amps
10 - 10 Amps
15 - 15 Amps
20 - 20 Amps
30 - 30 Amps
35 - 35 Amps
50 - 50 Amps
10 - 100 Amps
12 - 125 Amps
15 - 150 Amps
17 - 170 Amps
20 - 200 Amps
25 - 250 Amps
30 - 300 Amps
40 - 400 Amps

▲

Suffix for Other
Options/Features:
See Modifications

AE Threaded Full Voltage Motor Starters

Explosionproof, Dust-Ignitionproof, Watertight

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

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

Line Voltage	Maximum Horsepower	NEMA Size	Catalog Numbers [▲]	Aluminum Weight kg (lb)	Conduit Sizes Loc. A, B, C and D		Mounting Hardware Set Catalog Number
					Standard (Inches)	Maximum (Inches)	
240	3	0	AES0T-2403	30 (65)	1-1/4	1-1/2	AMH2
	7-1/2	1	AES1T-2407	30 (65)	1-1/4	1-1/2	
	15	2	AES2T-2415	48 (105)	1-1/2	1-1/2	
	30	3	AES3T-2430	54 (120)	2	2-1/2	
	50	4	AES4T-2450	54 (120)	2-1/2	2-1/2	
	100	5	AES5T-2410	136 (300)	4	4	AMH5
480	5	0	AES0T-4805	30 (65)	1-1/4	1-1/2	AMH2
	10	1	AES1T-4810	30 (65)	1-1/4	1-1/2	
	25	2	AES2T-4825	48 (105)	1-1/2	1-1/2	
	50	3	AES3T-4850	54 (120)	2	2-1/2	
	100	4	AES4T-4810	54 (120)	2-1/2	2-1/2	
	200	5	AES5T-4820	136 (300)	4	4	AMH5
600	5	0	AES0T-6005	30 (65)	1-1/4	1-1/2	AMH2
	10	1	AES1T-6010	30 (65)	1-1/4	1-1/2	
	25	2	AES2T-6025	48 (105)	1-1/2	1-1/2	
	50	3	AES3T-6050	54 (120)	2	2-1/2	
	100	4	AES4T-6010	54 (120)	2-1/2	2-1/2	
	200	5	AES5T-6020	136 (300)	4	4	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.

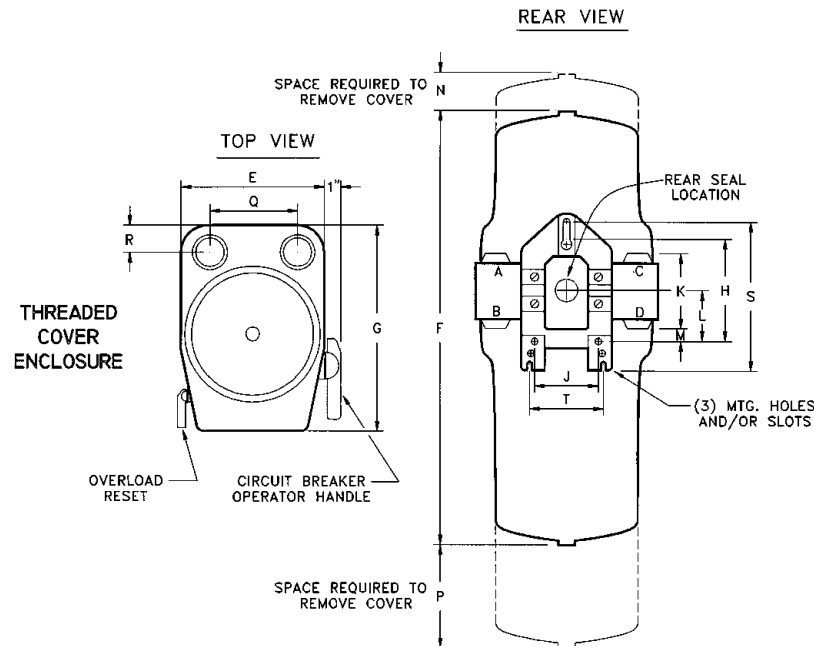
AE Threaded Combination/Non-Combination Full Voltage Motor Starter

Explosionproof, Dust-Ignitionproof, Watertight

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

Controls

NEC/CEC CLASS/ZONE RATED HAZARDOUS LOCATION MOTOR STARTERS



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)