

Electric Actuator • AE-180

Double Acting • Nema 4x • Manual Override



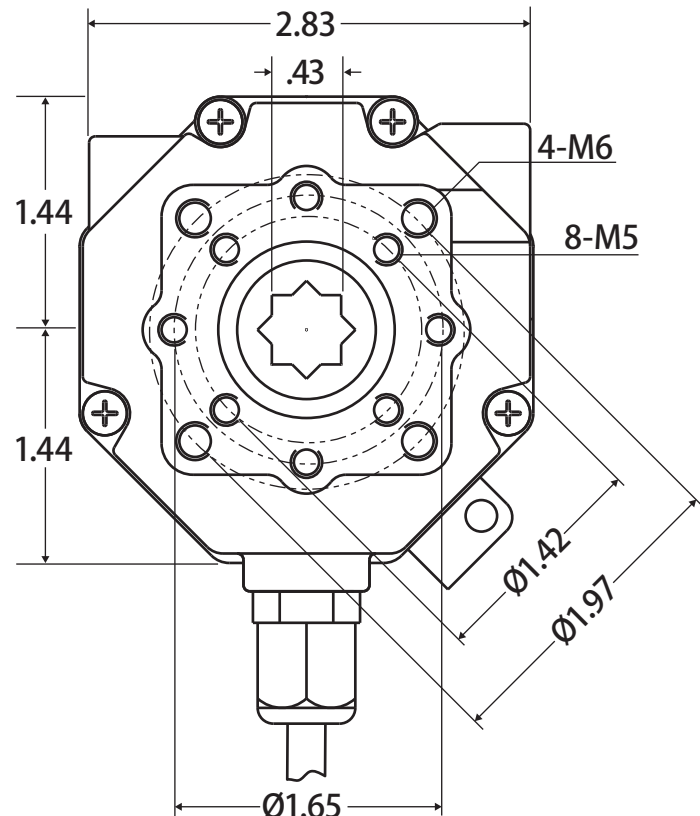
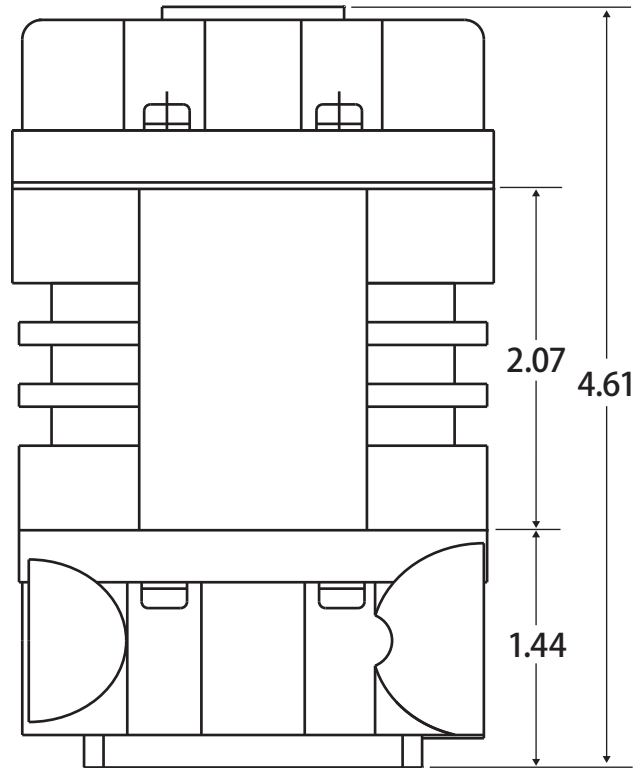
AE-180

Features

- Hard anodized aluminum housing with external powder coating for severe duty applications
- Enclosure: IP67
- ISO 5211 mounting
- 90° operation
- Position indicator
- Manual override standard
- 120V / 1Ph / 60Hz
- Thermally protected induction motor

Actuator Specs

Torque (in-lbs)	180
Output Square	0.43
ISO 5211 Mounting	F03 / F04 / F05
Duty Cycle	50%
Operating Time, 90° @ 120V (secs)	15
Rated current @ 120V (Amp.)	0.3A
Motor Insulation Class	E
Weight (lbs)	2.64
Limit Switches	2 - 1 ea for Open & Close (5A, 250VAC)
Cable Entry	PIGTAIL
Internal Htr.	NO
Temperature Range	-22° F to 140° F

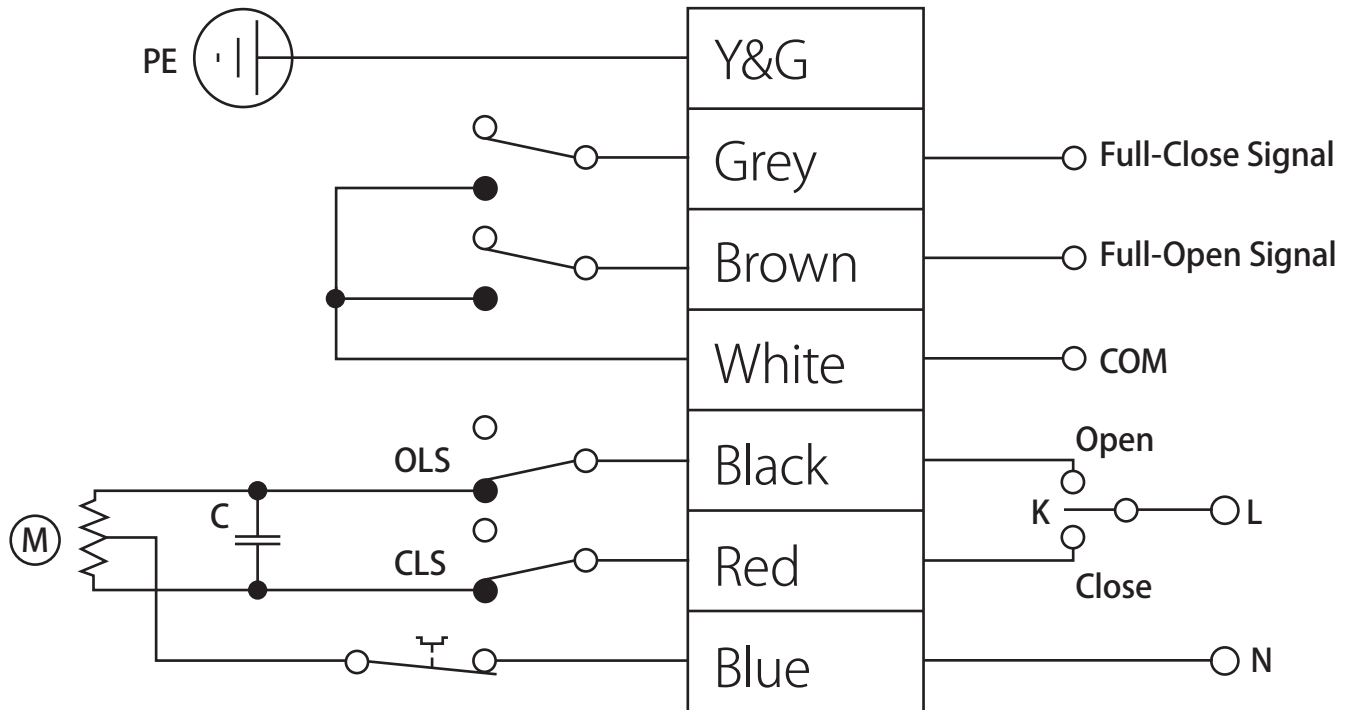


See next page for wiring diagram

Note: Information subject to change without notice.

Electric Actuator • AE-180

Wiring Diagram



Electric Actuator • AE-180

Double Acting • Nema 4x • Manual Override



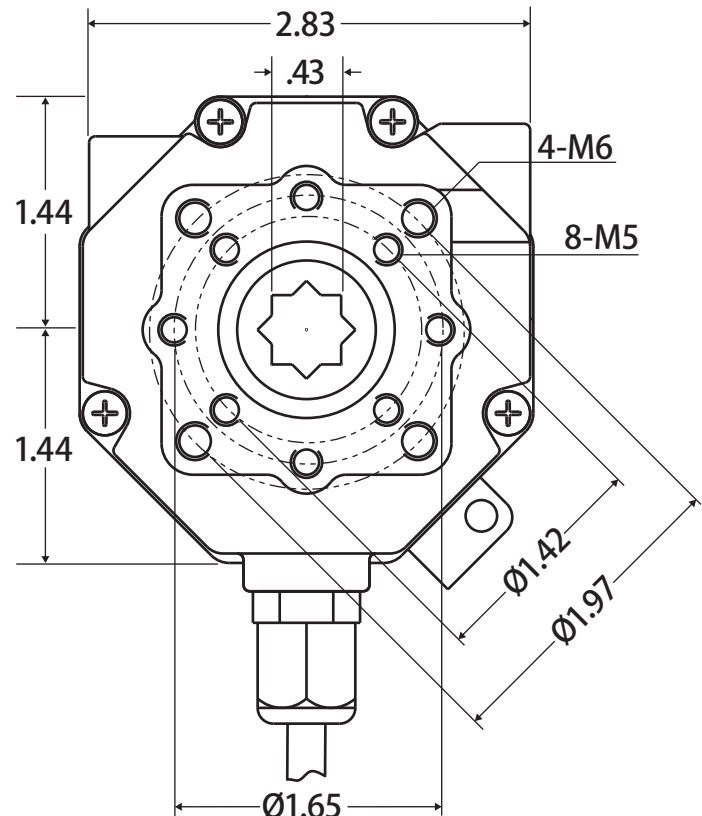
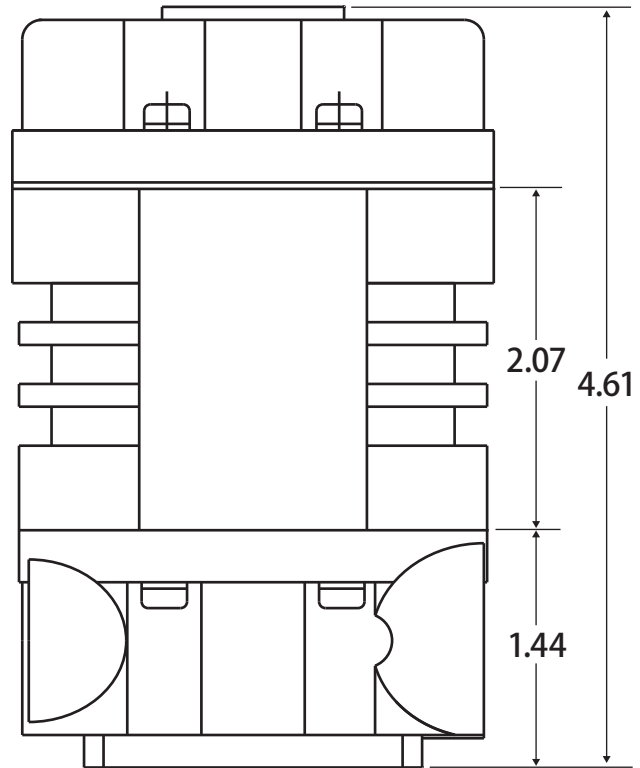
AE-180

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Motor Insulation Class	E
Weight (lbs)	2.64
Limit Switches	2 - 1 ea for Open & Close (5A, 250VAC)
Cable Entry	PIGTAIL
Internal Htr.	NO
Temperature Range	-22° F to 140° F

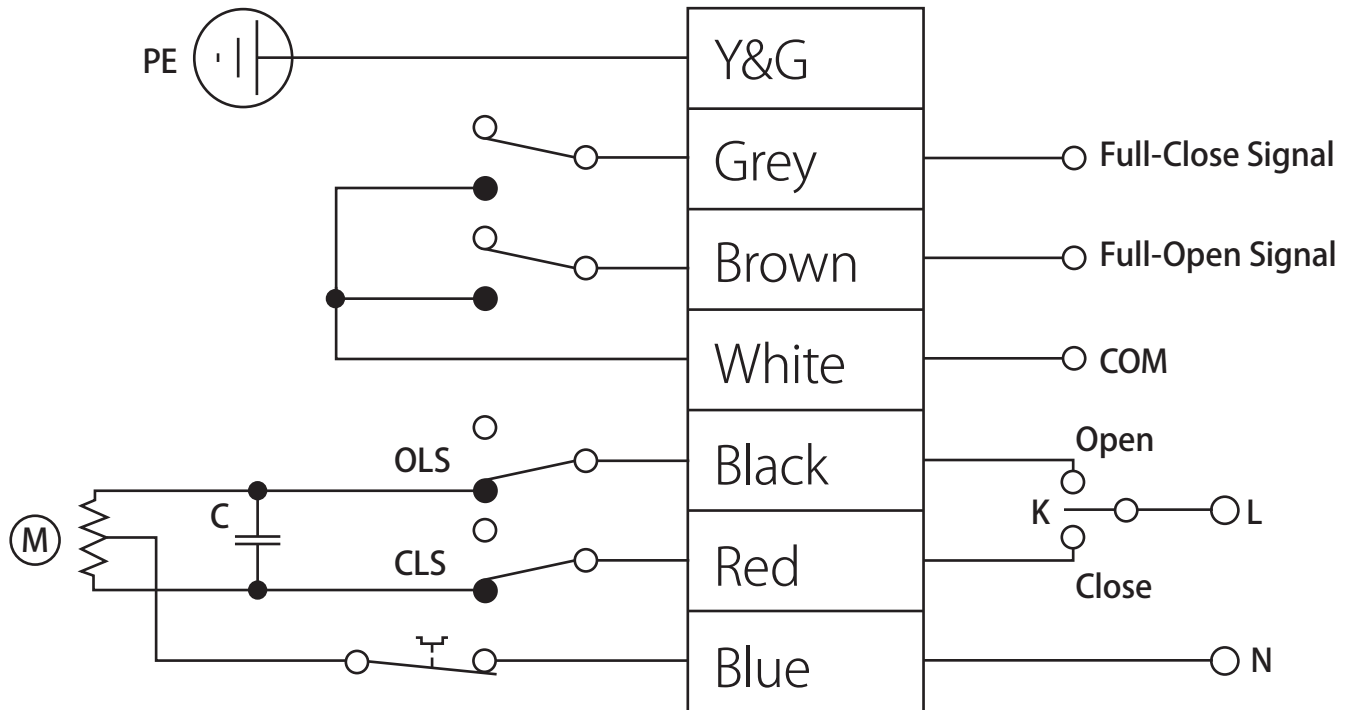


See next page for wiring diagram

Note: Information subject to change without notice.

Electric Actuator • AE-180

Wiring Diagram



Electric Actuator • AE-350

Double Acting • Nema 4x • Manual Override



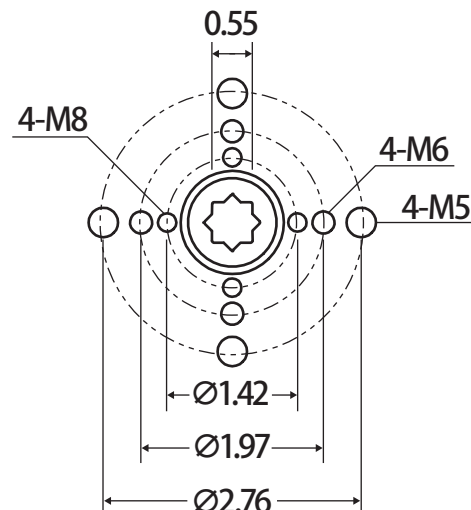
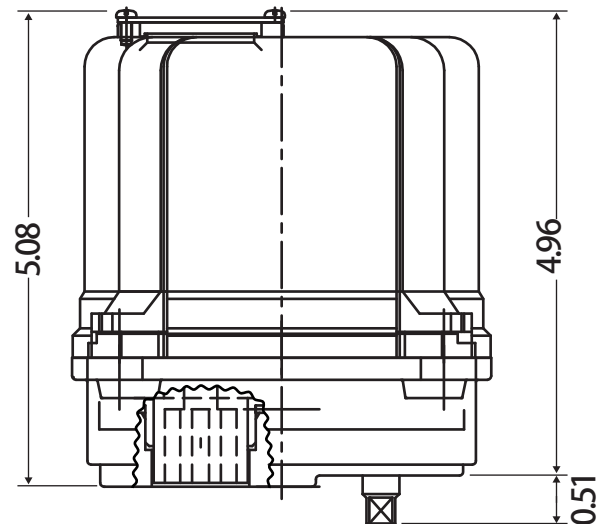
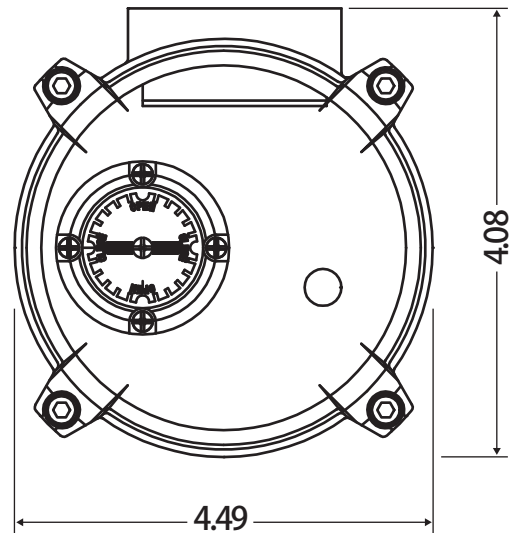
AE-350

Features

- Hard anodized aluminum housing with external powder coating for severe duty applications
- Enclosure: IP66, O-ring sealed
- ISO 5211 mounting
- 90° operation
- Position indicator
- Manual override standard
- 120V / 1Ph / 60Hz
- Thermally protected induction motor
- Spring loaded terminal block for ease in wiring

Actuator Specs

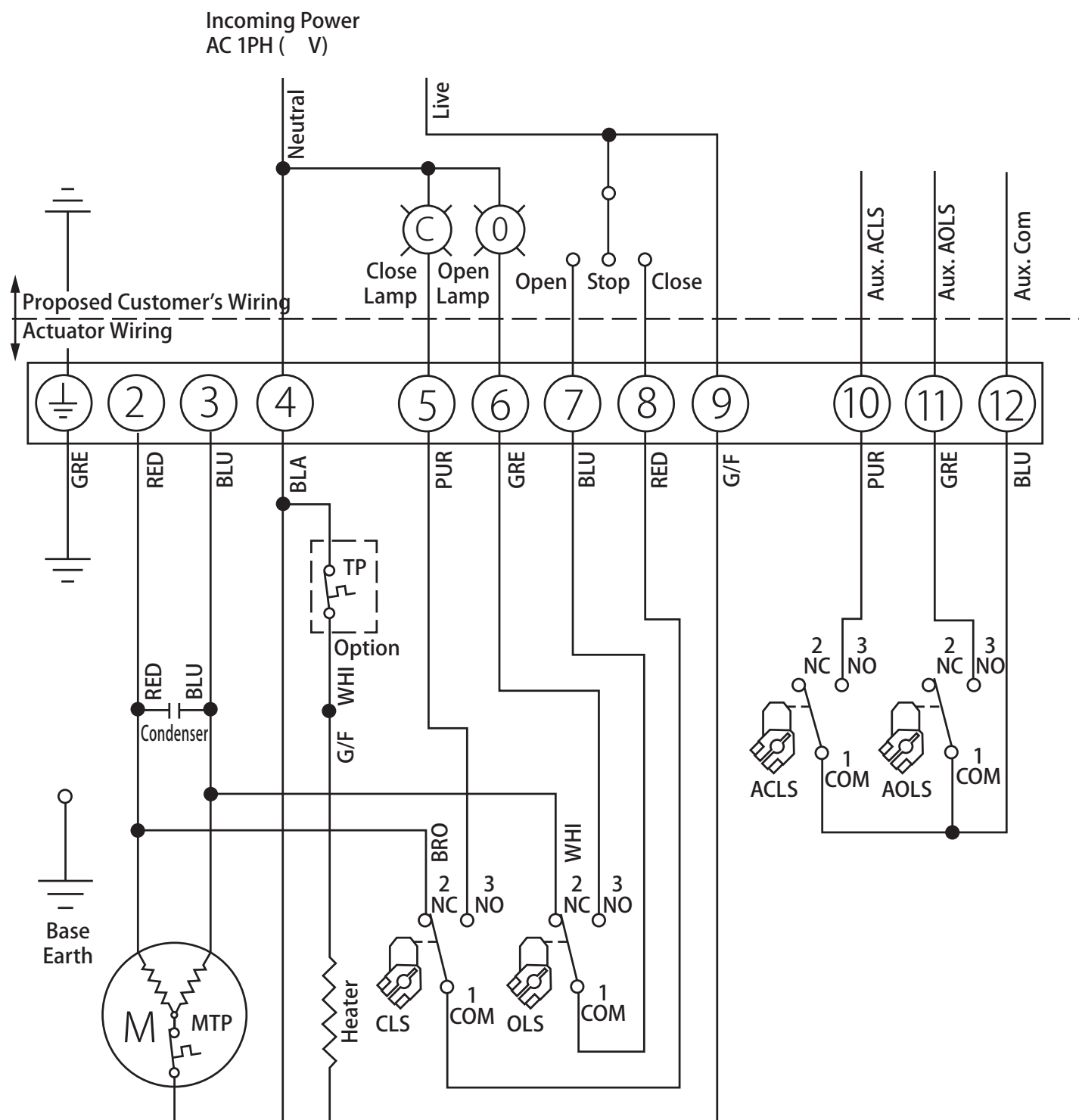
Torque (in-lbs)	350
Output Square	0.55
ISO 5211 Mounting	F03 / F05 / F07
IEC Duty Cycle (S2)	Max 30 min
Operating Time, 90° @ 120V (secs)	12
Rated current @ 120V (Amp.)	0.27A
Motor Insulation Class	E
Weight (lbs)	6.6
Limit Switches	2 - 1 ea for Open & Close (3A, 250VAC)
Auxiliary Limit Switches	2 - 1 ea for Open & Close (3A, 250VAC)
Cable Entry	2 - PG 13.5
Internal Htr.	Yes - 5W
Temperature Range	-4° F to 158° F



See next page for wiring diagram
Note: Information subject to change without notice.

Electric Actuator • AE-350

Wiring Diagram



Electric Actuator • AE-450

Double Acting • Nema 4x • Manual Override



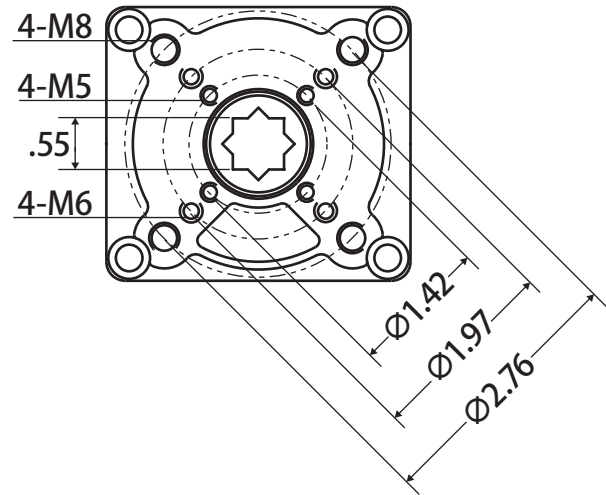
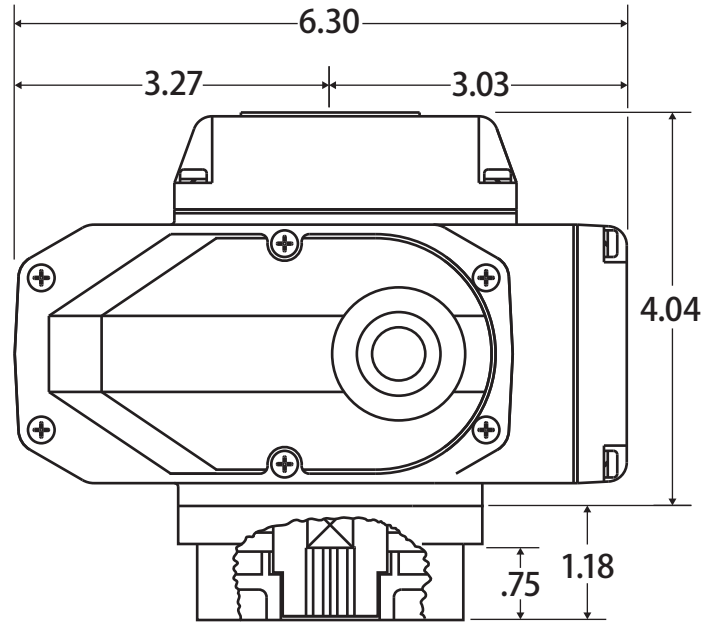
AE-450

Features

- Hard anodized aluminum housing with external powder coating for severe duty applications
- Enclosure: IP67
- ISO 5211 mounting
- 90° operation
- Position indicator
- Manual override standard
- 120V / 1Ph / 60Hz
- Thermally protected induction motor
- Set screw terminal block

Actuator Specs

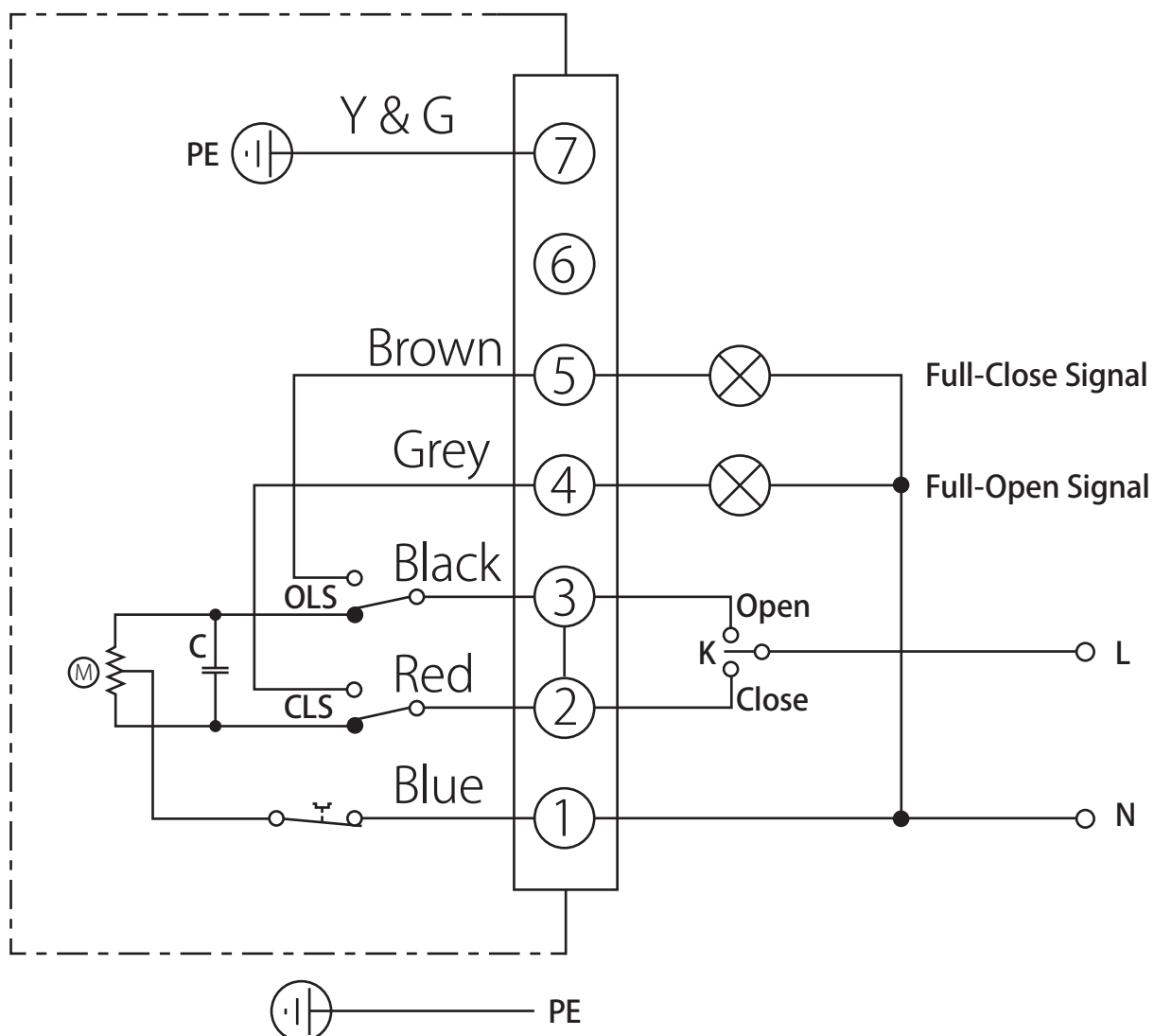
Torque (in-lbs)	450
Output Square	0.55
ISO 5211 Mounting	F03 / F05 / F07
Duty Cycle	30%
Operating Time, 90° @ 120V (secs)	20
Rated current @ 120V (Amp.)	0.24A
Motor Insulation Class	E
Weight (lbs)	4.4
Limit Switches	2 - 1 ea for Open & Close (5A, 250VAC)
Cable Entry	2 - G1/2
Internal Htr.	NO
Temperature Range	-22° F to 140° F



See next page for wiring diagram
Note: Information subject to change without notice.

Electric Actuator • AE-450

Wiring Diagram



Electric Actuator • AE-700

Double Acting • Nema 4x • Manual Override



AE-700

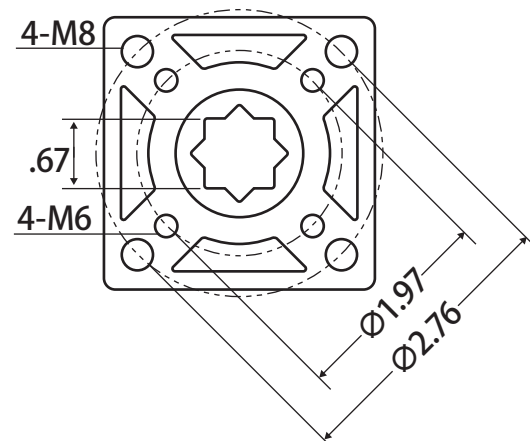
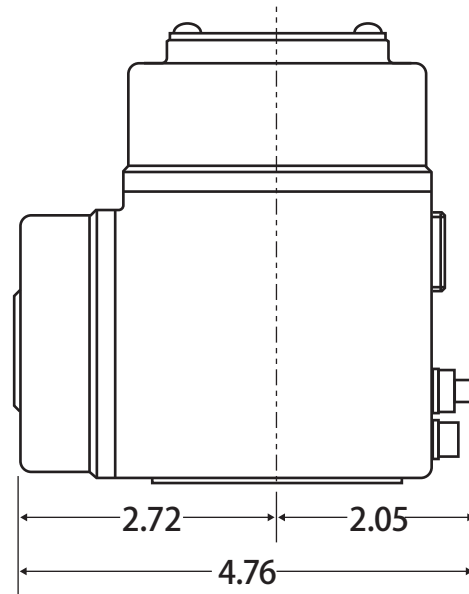
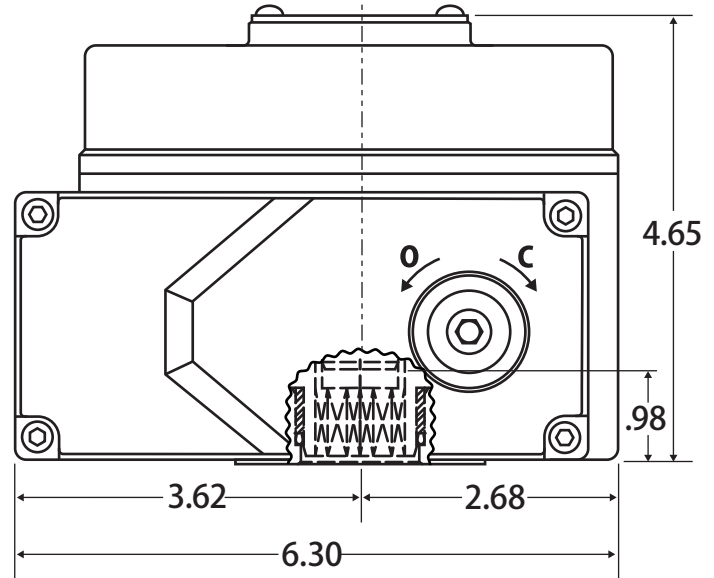
Features

- Hard anodized aluminum housing with external powder coating for severe duty applications
- Enclosure: IP67, O-ring sealed
- ISO 5211 mounting
- 90° operation
- Adjustable mechanical stops to prevent over travel
- Position indicator
- Manual override standard
- 120V / 1Ph / 60Hz
- Thermally protected induction motor
- Worm gearing, no break required
- Spring loaded terminal block for ease in wiring

Actuator Specs

Torque (in-lbs)	700
Output Square	0.67
ISO 5211 Mounting	F05 / F07
IEC Duty Cycle (S2)	Max 30 min
IEC Duty Cycle (S4)	50%, 1,200 start/hr
Operating Time, 90° @ 120V (secs)	14
Rated current @ 120V (Amp.)	0.97A
Motor Insulation Class	E
Weight (lbs)	7.7
Limit Switches	2 - 1 ea for Open & Close (3A, 250VAC)
Auxiliary Limit Switches	2 - 1 ea for Open & Close (3A, 250VAC)
Cable Entry	2 - 3/4" NPT
Internal Htr.	Yes - 3W
Temperature Range	-4° F to 158° F

Note: 1.5" of clearance needed to remove cover



See next page for wiring diagram

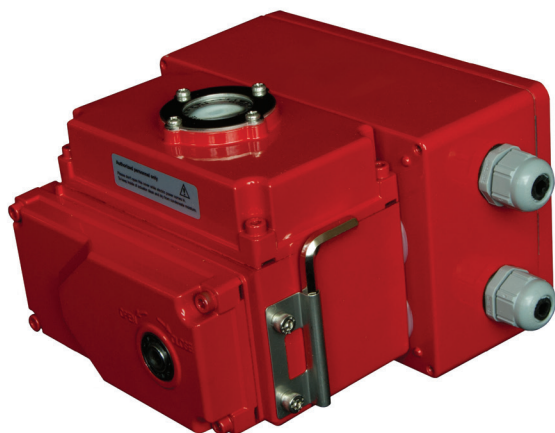
Note: Information subject to change without notice.



Electric Actuator • AE-700M



Double Acting • Nema 4x • Modulating • Manual Override



AE-700M

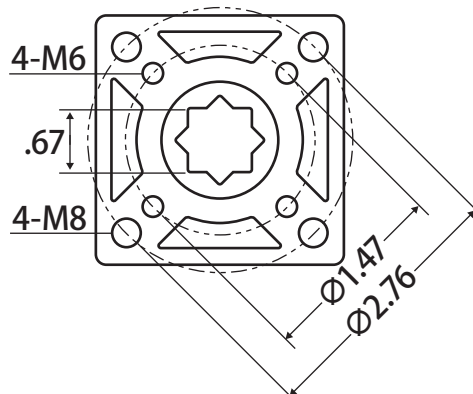
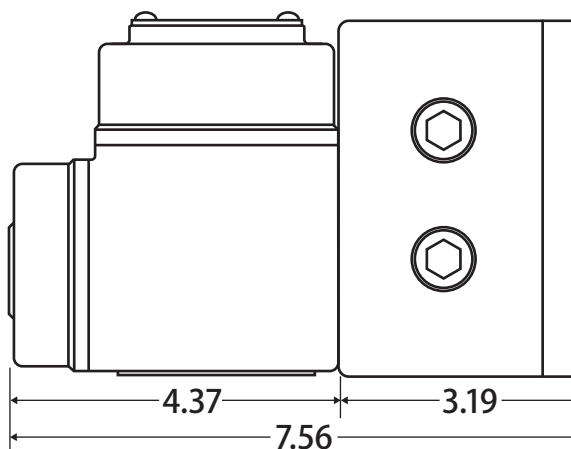
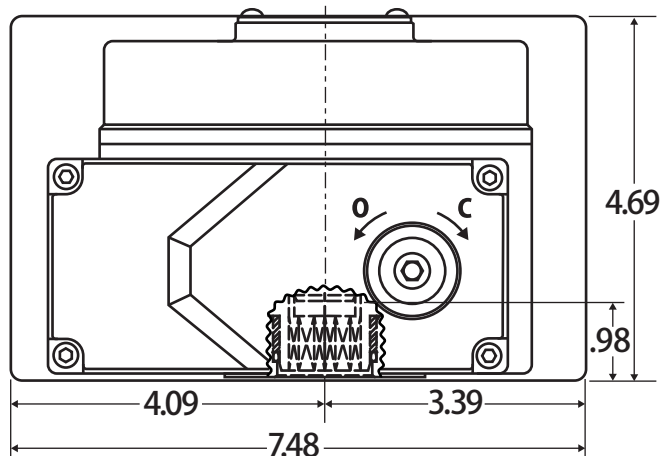
Features

- Hard anodized aluminum housing with external powder coating for severe duty applications
- Enclosure: IP67, O-ring sealed
- ISO 5211 mounting
- Remote Position Controller (RPC) modulation
- 90° operation
- Adjustable mechanical stops to prevent over travel
- Auto Calibration
- Position indicator
- Manual override standard
- 120V / 1Ph / 60Hz
- Thermally protected induction motor
- Worm gearing, no break required
- Spring loaded terminal block for ease in wiring

Actuator Specs

Torque (in-lbs)	700
Output Square	0.67
ISO 5211 Mounting	F05 / F07
IEC Duty Cycle (S2)	Max 30 min
IEC Duty Cycle (S4)	50%, 1,200 start/hr
Operating Time, 90° @ 120V (secs)	14
Rated current @ 120V (Amp.)	0.97A
Motor Insulation Class	E
Weight (lbs)	7.7
Limit Switches	2 - 1 ea for Open & Close (3A, 250VAC)
Auxiliary Limit Switches	2 - 1 ea for Open & Close (3A, 250VAC)
Cable Entry	3/4" NPT
Internal Htr.	Yes - 3W
Temperature Range	10° F to 150° F

Note: 1.5" of clearance needed to remove cover



RPC Specifications

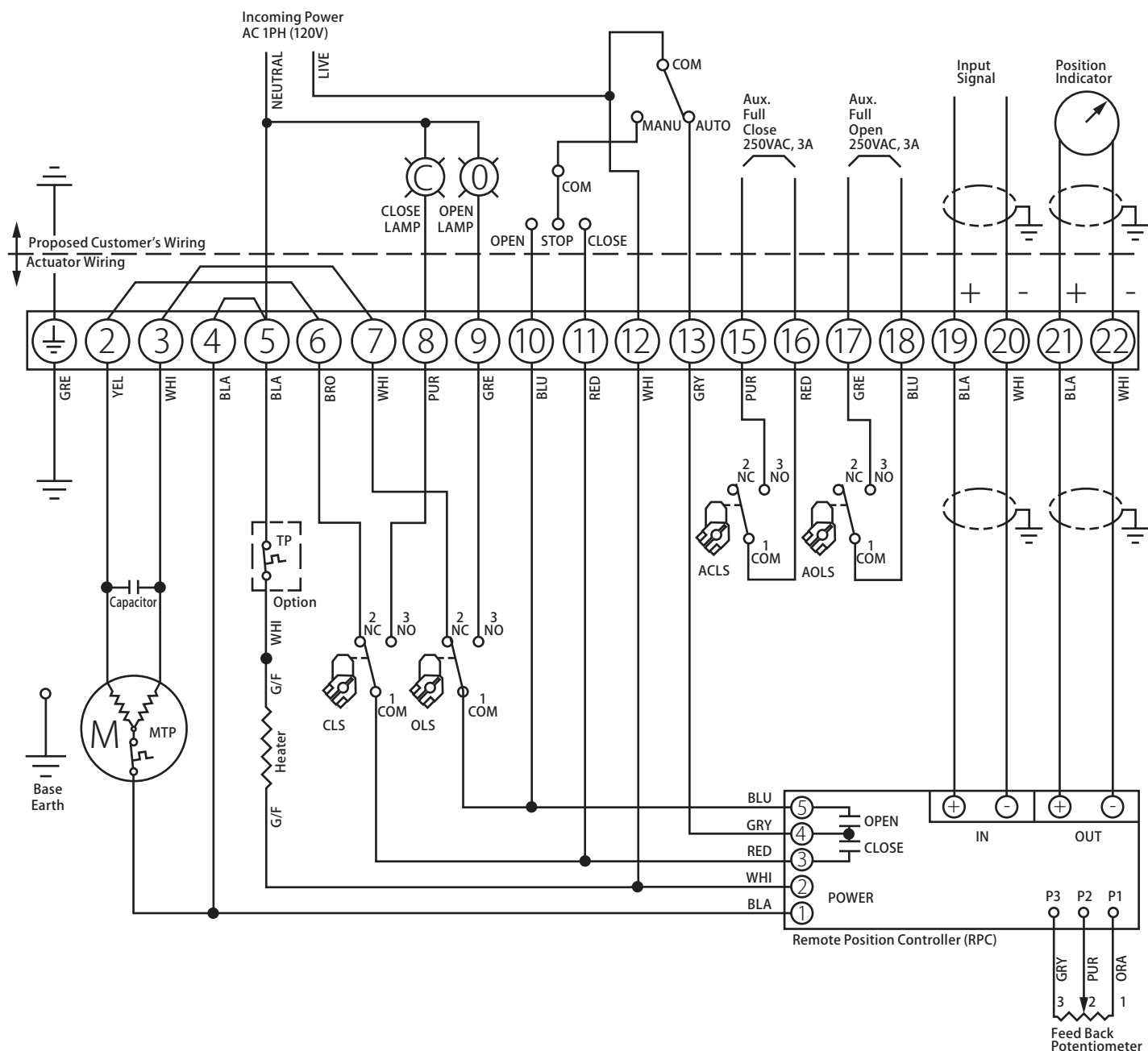
Input Signal	4-20mA, 0-210VDC, 2-10VDC, 1-5VDC, 0-5VDC
Output Signal	4-20mA
Potentiometer (Feedback)	1 Kohm
Load Resistance	100 Ohm - 750 Ohm
Input Resistance	250 Ohms
Delay Time Adjustment	1.0 - 8.5 sec
Dead Band Adjustment	0.1 - 4.5%
Resolution	Min 1/1,000

See next page for wiring diagram

Note: Information subject to change without notice.

Electric Actuator • AE-700M

Wiring Diagram



Electric Actuator • AE-880

Double Acting • Nema 4x • Manual Override



AE-880

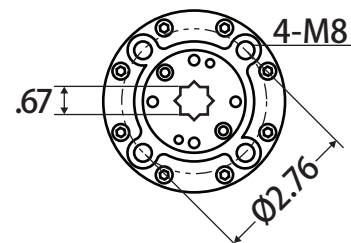
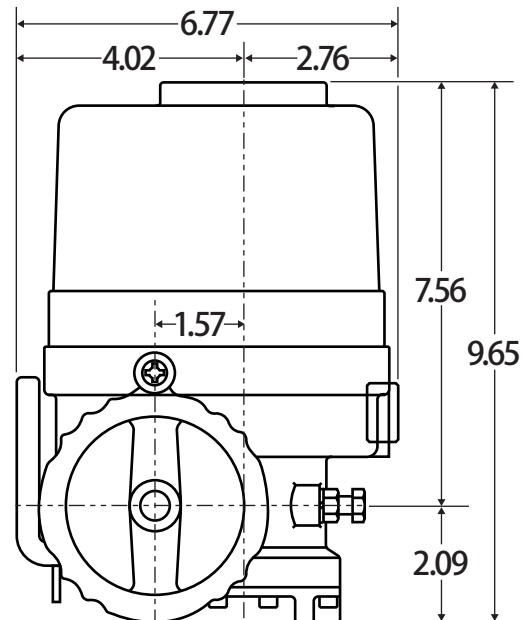
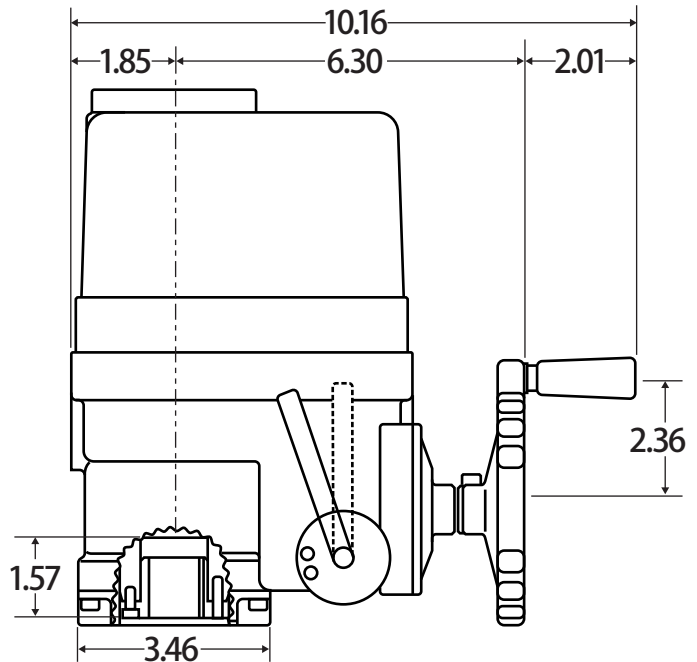
Features

- Hard anodized aluminum housing with external powder coating for severe duty applications
- Enclosure: IP67, NEMA4 and 4X, O-ring sealed
- ISO 5211 mounting
- 90° operation
- Adjustable mechanical stops to prevent over travel
- Position indicator
- De-clutchable manual override standard
- 120V / 1Ph / 60Hz
- Thermally protected induction motor
- Double worm gearing, no break required
- Spring loaded terminal block for ease in wiring

Actuator Specs

Torque (in-lbs)	880
Output Square	0.67
ISO 5211 Mounting	F07
IEC Duty Cycle (S2)	Max 20 min
IEC Duty Cycle (S4)	30%, 800 start/hr
Operating Time, 90° @ 120V (secs)	18
Rated current @ 120V (Amp.) (Running/Max)	1.10/1.49
Motor Insulation Class	F
Weight (lbs)	15.4
Limit Switches	2 - 1 ea for Open & Close (10A, 250VAC)
Auxiliary Limit Switches	2 - 1 ea for Open & Close (10A, 250VAC)
Cable Entry	2 - 3/4" NPT
Internal Htr.	Yes - 5W
Temperature Range	-4° F to 158° F
Torque OL Protection	NO

Note: 5" of clearance needed to remove cover



See next page for wiring diagram
Note: Information subject to change without notice.

Electric Actuator • AE-880M



Double Acting • Nema 4x • Modulating • Manual Override



AE-880M

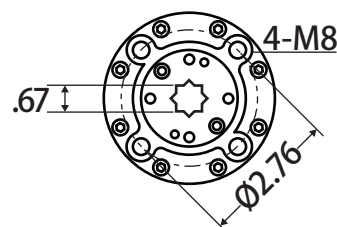
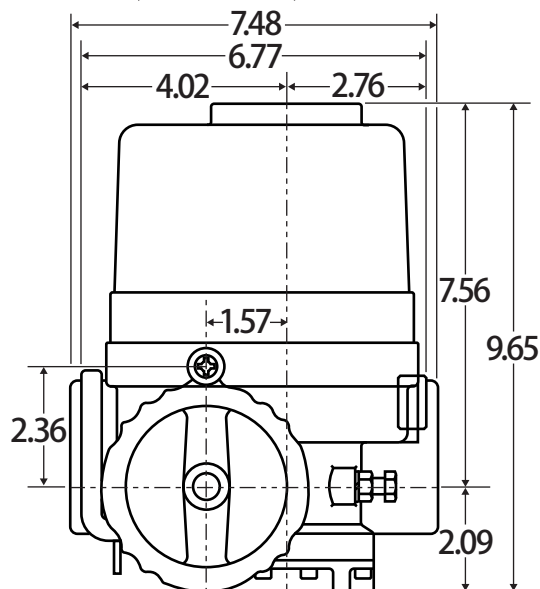
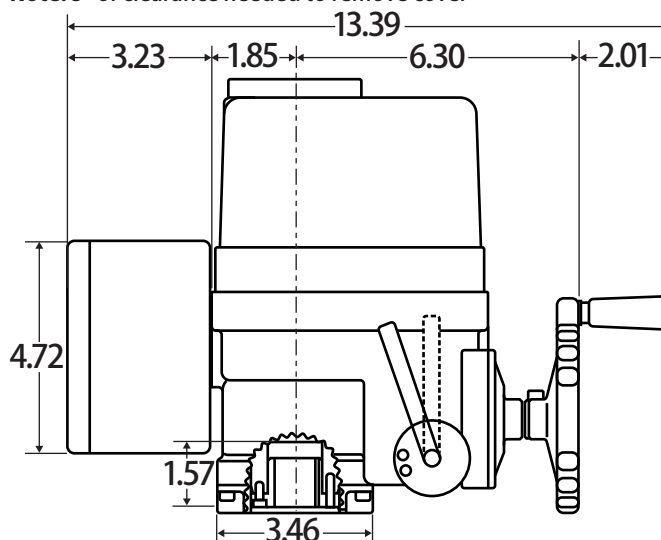
Features

- Hard anodized aluminum housing with external powder coating for severe duty applications
- Enclosure: IP67, NEMA4 and 4X, O-ring sealed
- ISO 5211 mounting
- 90° operation
- Adjustable mechanical stops to prevent over travel
- Position indicator
- De-clutchable manual override standard
- 120V / 1Ph / 60Hz
- Thermally protected induction motor
- Double worm gearing, no break required
- Spring loaded terminal block for ease in wiring

Actuator Specs

Torque (in-lbs)	880
Output Square	0.67
ISO 5211 Mounting	F07
IEC Duty Cycle (S2)	Max 20 min
IEC Duty Cycle (S4)	30%, 800 start/hr
Operating Time, 90° @ 120V (secs)	18
Rated current @ 120V (Amp.) (Run-ning/Max)	1.10/1.49
Motor Insulation Class	F
Weight (lbs)	15.4
Limit Switches	2 - 1 ea for Open & Close (10A, 250VAC)
Auxiliary Limit Switches	2 - 1 ea for Open & Close (10A, 250VAC)
Cable Entry	2 - 3/4" NPT
Internal Htr.	Yes - 5W
Temperature Range	10° F to 150° F
Torque OL Protection	NO

Note: 5" of clearance needed to remove cover



RPC Specifications

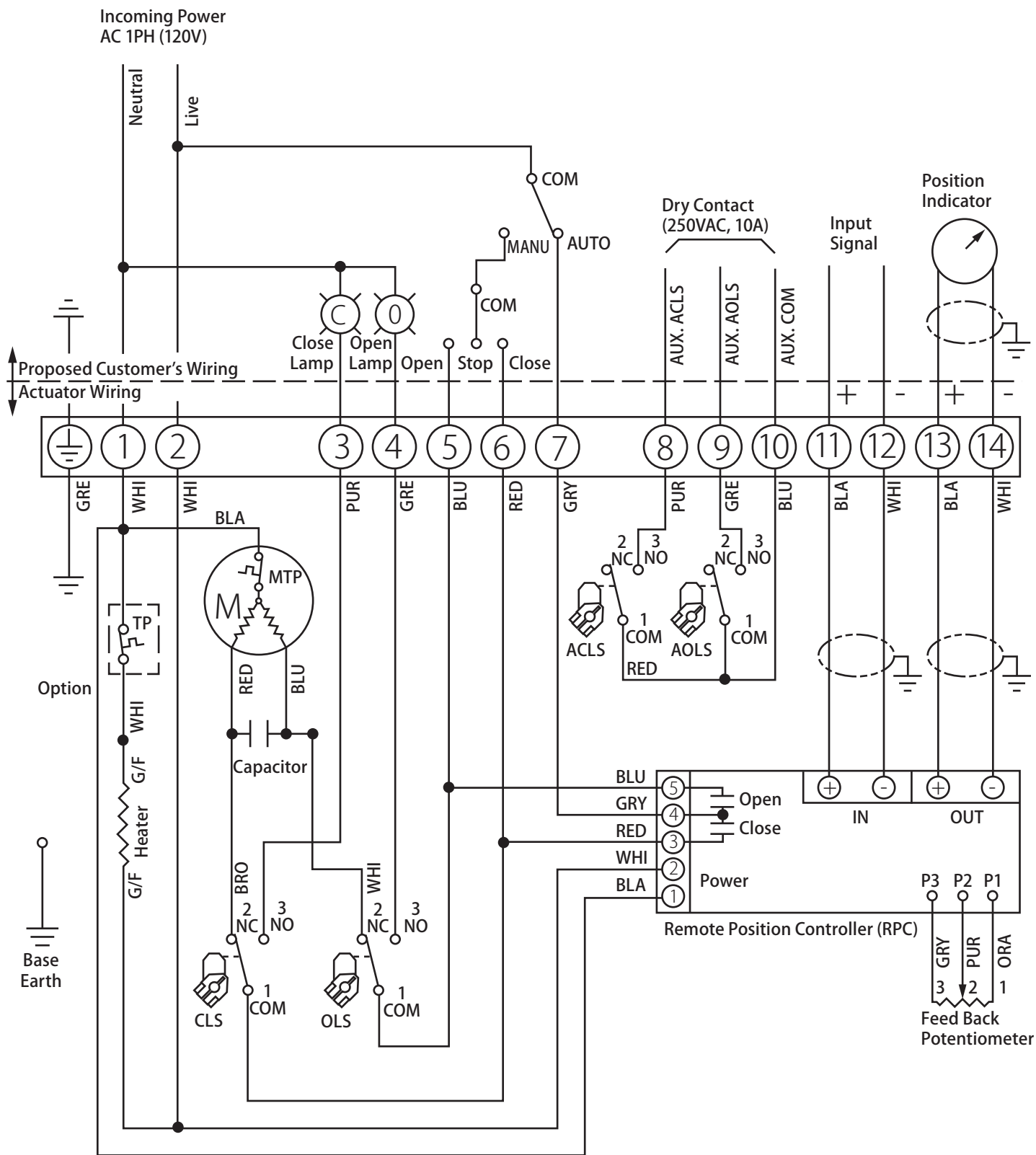
Input Signal	4-20mA, 0-210VDC, 2-10VDC, 1-5VDC, 0-5VDC
Output Signal	4-20mA
Potentiometer (Feedback)	1 Kohm
Load Resistance	100 Ohm - 750 Ohm
Input Resistance	250 Ohms
Delay Time Adjustment	1.0 - 8.5 sec
Dead Band Adjustment	0.1 - 4.5%
Resolution	Min 1/1,000

See next page for wiring diagram

Note: Information subject to change without notice.

Electric Actuator • AE-880M

Wiring Diagram



Electric Actuator • AE-1400 - 9700



Double Acting • Nema 4x • Manual Override



AE-1400 - 9700

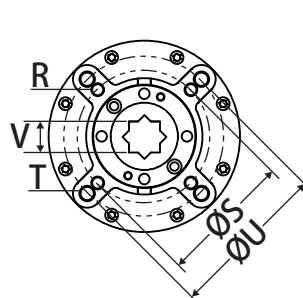
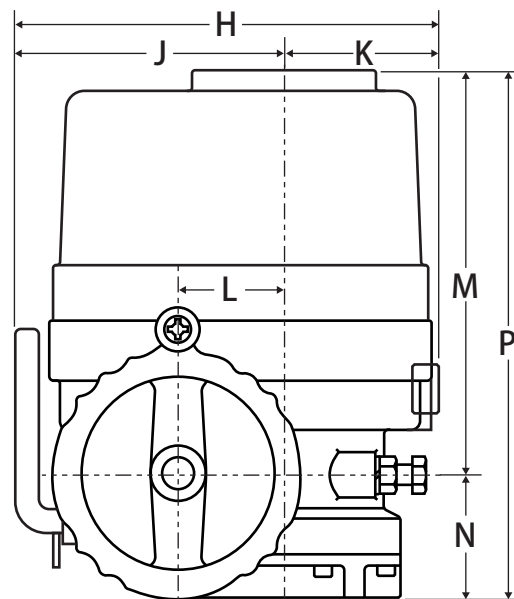
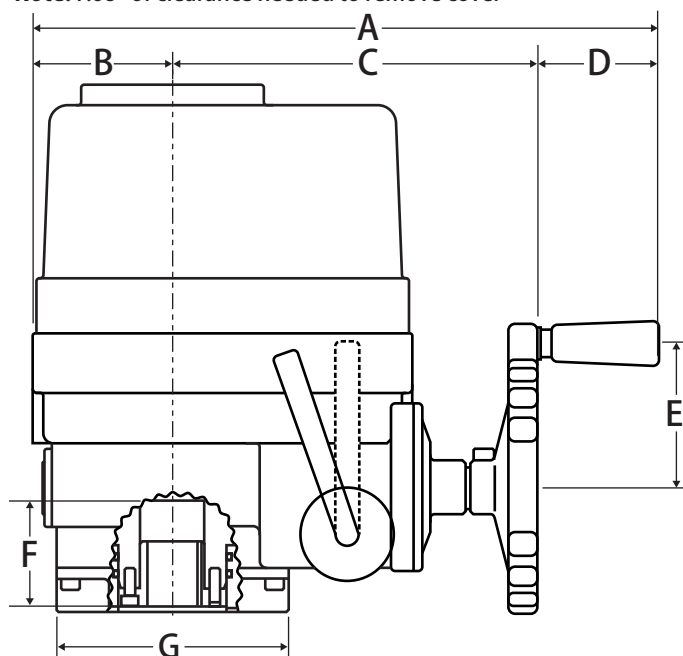
Features

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- Enclosure: IP67, NEMA4 and 4X, O-ring sealed
- ISO 5211 mounting
- 90° operation
- Adjustable mechanical stops to prevent over travel
- Position indicator
- De-clutchable manual override standard
- 120V / 1Ph / 60Hz
- Thermally protected induction motor
- Double worm gearing, no break required
- Spring loaded terminal block for ease in wiring

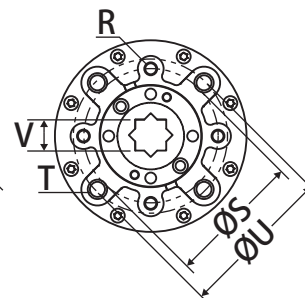
Actuator Specs

	AE-1400		AE-2100	AE-3100	AE-4400	AE-7000	AE-9700
Torque (in-lbs)	1400		2100	3100	4400	7000	9700
Output Square	0.87			1.06		1.42	1.54
ISO 5211 Mounting	F07 / F10			F10 / F12		F12 / F14	
IEC Duty Cycle (S2)	Max 30 min				Max 20 min		
IEC Duty Cycle (S4)	50%, 1200 start/hr				30%, 800 start/hr		
Operating Time, 90° @ 120V (secs)	22			26		32	
Rated current @ 120V (Amp.) (Running/Max)	1.70/2.62	1.72/3.16	1.80/3.16	3.9/5.44	4.2/7.92	4.3/7.92	
Motor Insulation Class	F						
Weight (lbs)	33			44		55	
Limit Switches	2 x SPDT - 1 ea for Open & Close (10A, 250VAC)						
Auxiliary Limit Switches	2 x SPDT - 1 ea for Open & Close (10A, 250VAC)						
Cable Entry	2 - 3/4" NPT						
Internal Htr.	Yes - 5W						
Temperature Range	-4° F to 158° F						
Torque OL Protection	2 x SPDT - 1 ea for Open & Close (10A, 250VAC)						

Note: 7.68" of clearance needed to remove cover



AE-1400 - AE-4400



AE-7000 - AE9700

See next page for dimensions and wiring diagram

Note: Information subject to change without notice.

Electric Actuator • AE-1400 - 9700

Dimensions and Wiring Diagram (1400)



Dimensions

Actuator	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	S	T	U	V
AE-1400	13.31	2.99	7.76	2.56	3.07	2.36	4.92	9.02	5.71	3.31	2.24	8.54	2.64	11.18	4-M8	F07	4-M10	F10	0.87
AE-2100	13.31	2.99	7.76	2.56	3.07	2.36	4.92	9.02	5.71	3.31	2.24	8.54	2.64	11.18	4-M8	F07	4-M10	F10	0.87
AE-3100	14.06	3.07	8.43	2.56	3.54	2.56	5.83	9.45	6.30	3.31	2.64	9.65	2.68	12.32	4-M10	F10	4-M12	F12	1.06
AE-4400	14.06	3.07	8.43	2.56	3.54	2.56	5.83	9.45	6.30	3.31	2.64	9.65	2.68	12.32	4-M10	F10	4-M12	F12	1.06
AE-7000	14.96	3.46	8.94	2.56	4.33	2.76	7.01	11.18	7.05	4.13	3.19	10.43	2.87	13.31	4-M12	F12	4-M16	F14	1.42
AE-9700	14.96	3.46	8.94	2.56	4.33	2.76	7.01	11.18	7.05	4.13	3.19	10.43	2.87	13.31	4-M12	F12	4-M16	F14	1.54

