

BETTIS

TorqPlus[™] Electric Valve Actuators and Controls



Torque 150 IN/LB – 600 IN/LB

The Engineered Solution

Bettis TorqPlus quality line of electric actuators are designed for quarter turn applications — ball, butterfly and plug valves; dampers; vents and similar uses. TorqPlus actuators are manufactured in a wide range of **guaranteed** output torques and operating speeds to fit your specific requirements.

The Model EM-300 actuators combine compactness with manual override capability and an extensive array of available options for a broad spectrum of applications.



STANDARD FEATURES

Two year warranty

Heater and thermostat installed in all actuators Case hardened steel spur gear train is permanently lubricated

Hardened steel drive shaft

Female DIN/ISO F04 output drive and bolt pattern or male output drive

Operating temperatures:

-40° F with standard heater activated to +140° F Single phase capacitor run motor with thermal overload protection

Internal motor brake on 4 and 10 second units Enclosure certified to weatherproof C.S.A. specifications that conform to NEMA type 1, 2, 3, 3R, 4, 4X & 12

Two single pole double throw travel-stop limit switches with adjustable cams

Declutchable manual override with position indicator

Dual 1/2-inch NPT conduit entrance Operational in any mounting orientation.

Weight: 11 to 12 lbs

OPTIONAL FEATURES

75% or 100% extended duty cycle motors Electromechanical brake for 15 second and 30 second units

Standard $1K\Omega$ potentiometer. Other ranges provided upon request.

Relay control

Electronic proportional positioner for 4-20 mA, 1-5 VDC, or 0-10 VDC control input and 4-20mA output signal

Optional voltages

230 VAC 50/60 Hz single phase

12/24 VDC

24 VAC

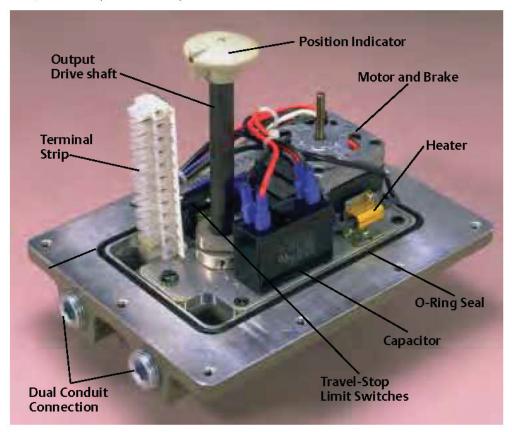
Maximum of four additional auxiliary single pole double throw auxiliary limit switches with adjustable cams.

Handwheel

Canadian Standards Association general purpose for electrical certification available under file #LR90062

Dual purpose weatherproof and explosion-proof enclosures are certified by Canadian Standards Association for services: Class I Groups C,D, Division I; Class II Groups E,F,G Division I that conform to NEMA type 7 and 9

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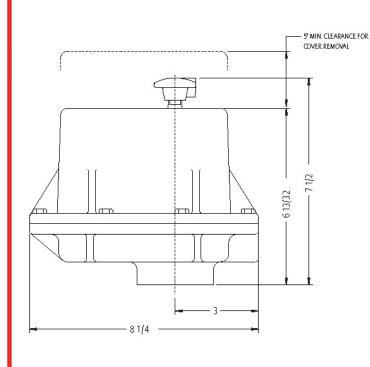
MODEL EM-300 SERIES									
TORQUE		SPEED	MODEL	LOCKED ROTOR AMP				MOTOR DUTY	
IN/IB	NM	90°	MODEL	115VAC	230VAC	12VDC	24VDC	CYCLE @ 75°F AC DC	
150	17	4 SEC	300-04	0.57 *	0.29	19.2	8.8	* *30%	100%
300	34	10 SEC	300-10	0.57 *	0.29	19.2	8.8	**30%	100%
400	45	15 SEC	300-15	0.56*	0.25	19.2	8.8	**30%	100%
600	68	30 SEC	300-30	0.56*	0.25	19.2	8.8	**30%	100%

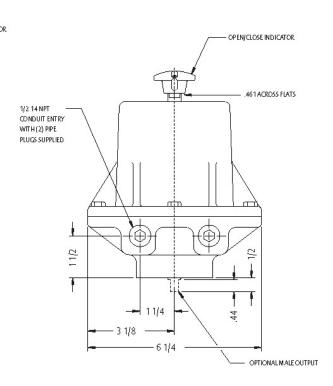
^{*} Locked rotor current for all 75% and 100% duty cycle motors is 0.50 amp

^{**75%} and 100% duty cycle motors are available for 115 VAC service

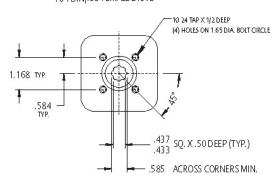


MODEL EM-300 EM-310 EM-320

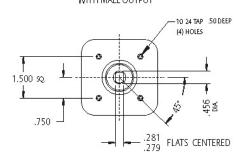




DIN/ISO F04 FLANGE F04 DIN/ISO FEMALE DRIVE



FLANGE DIMENSIONS WITH MALE OUTPUT



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