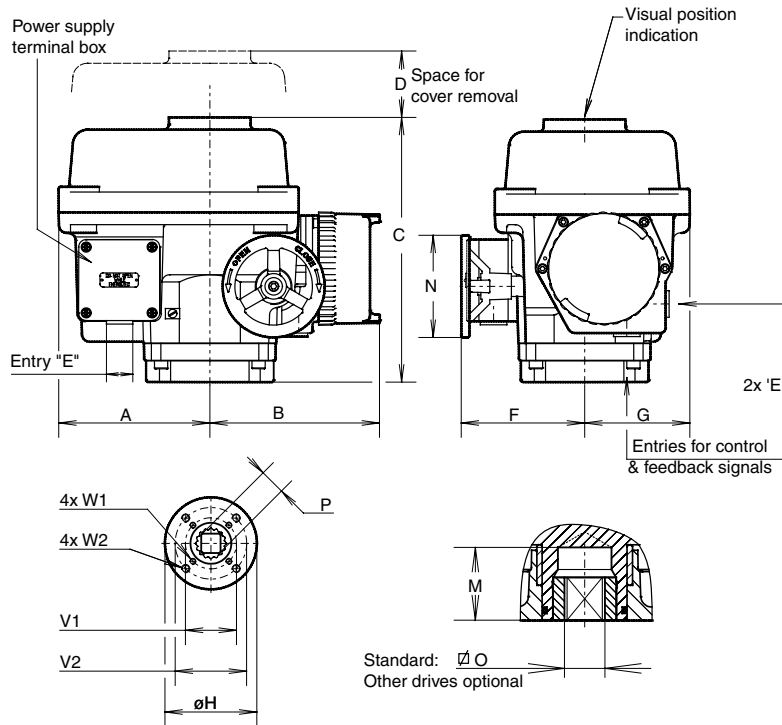


Data sheet

Sheet No.: A5.115.2 Rev. B
Date: November 2010

DIMENSIONS AND TECHNICAL DETAILS - ELECTRIC ACTUATOR

ELQ XP FM



Dim. in inches	ELQ100	ELQ200	ELQ300	ELQ500	ELQ800
A	5.83	5.83	5.83	7.17	7.17
B	6.59	6.59	6.59	8.25	8.25
C	10.24	10.24	10.24	12.01	12.01
D	3.94	3.94	3.94	3.94	3.94
E	1/2" NPT	1/2" NPT	1/2" NPT	1/2" NPT	1/2" NPT
F	4.65	6.14	6.14	8.62	10.08
G	4.06	4.06	4.06	5.20	5.20
H	4.92	4.92	4.92	6.89	6.89
M	1.97	1.97	1.97	2.36	2.36
N	3.94	7.09	7.09	11.81	15.75
O max.	0.752	0.752	0.871	1.068	1.424
O min.	0.748	0.748	0.866	1.063	1.417
P	0.99	0.99	1.11	1.43	1.90
V1	2.756	2.756	2.756	4.016	4.016
V2	4.016	4.016	4.016	5.512	5.512
W1	5/16-18 x .53	5/16-18 x .53	5/16-18 x .53	3/8-16 x .63	3/8-16 x .63
W2	3/8-16 x .63	3/8-16 x .63	3/8-16 x .63	5/8"-11x .98	5/8"-11x .98

Description

Series ELQ FM electric actuators are powerful, 1/4 turn units with five sizes covering the torque range from 885 to 7081 In.lb. They incorporate High Ratio Drive (HRD) gearing which provides a compact backlash free reduction gear ideally suited for both tight positional control and long trouble free ON/OFF operation. Universal power control allows direct connection to all the usual voltages.

The explosionproof housing contains the motor, gear reduction and the Electronic Control Unit (ECU).

- Electronic control enables precise control of the actuators internal functions and a ready interface to a wide range of control options. Electronic torque control is included as a standard feature. Modular construction is used throughout and allows for a wide range of "kit" and "factory" options.

The manual override handwheel is constantly engaged, it is non-rotating and arranged so that at no time can be back driven by the motor. The handwheel is equipped with a spinner and so can be easily removed. The mounting/drive is to ISO 5211.

Specification

Nominal Rotation : 90° - Analogue adjustable from 10° up to 100° of stroke
Explosion proof : Class 1, Div. 1, Groups C/D, NEMA 4
Certificate : Factory Mutual Approval report J.I. 3D6A1.AE
Temperature : Class T4; -40°F to +140°F
Electrical Entry : 3 x 1/2" NPT
Electrical Connection : By internal terminal block
- Power supply : AC - 115V, 230V, or 400V (+10% / -6%) 50/60 Hz
: DC - 24V (±10%)
- Control signal : 24VDC (±10%)
- Limit Switches : 2 x SPDT, Micro switches (500mA at 30 VDC/VAC)
Duty cycle : 100%
Torque Control : Electronic
Mechanical Stops : At 0° and 90°, adjustable +/- 10°
Heater : Standard, 10 Watt
Visual Indication : On top cover
Finish : Polyurethane paint
Materials : External Steel Parts : Stainless Steel
: Housing : Aluminum alloy

Kit options

- Position control
- Extra limit switches
- Position transmitter
- Local control station
- Speed control
- Status option

Factory options

- IP68
- Low temperature
- Bus communication: Profibus DP or Fieldbus Foundation

Performance		ELQ100	ELQ200	ELQ300	ELQ500	ELQ800
Torque (In.lb.)		885	1770	2655	4425	7081
Speed/90° (Sec.)	Max. load	10	14	18	22	36
	No load	6	8	13	17	28
Power Supply		115VAC	1	1	1.7	1.7
Max. Current (A)	230VAC	0.5	0.5	0.5	0.9	0.9
	400VAC	0.3	0.3	0.3	0.5	0.5
Max.	24V DC	4.1	4.3	4	5.3	5.1
	Power (W) Nominal	98	102	96	130	125
Weight (lb.)		29	31	32	62	66

EL-O-MATIC

www.El-O-matic.com

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Updated data sheets can be obtained from our website www.El-O-Matic.com or from your nearest Valve Automation Center **USA:** +1 813 319 0266 **Europe:** +31 74 256 10 10 **Asia-Pacific:** +65 6501 4600



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