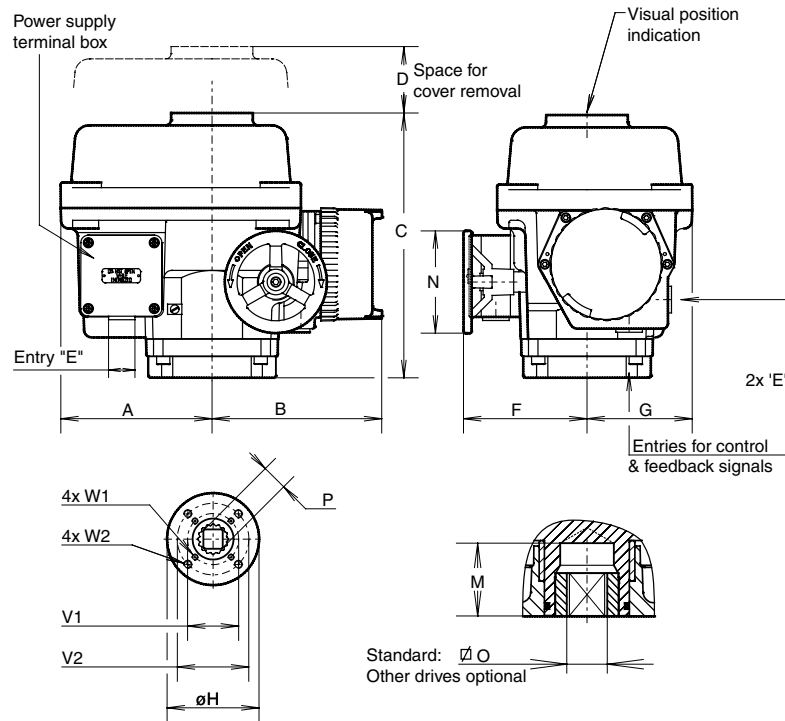


# Data sheet

Sheet No.: 5.115.2 Rev. B  
Date: November 2010

## DIMENSIONS AND TECHNICAL DETAILS - ELECTRIC ACTUATOR

ELQ XP FM



Dim. in mm.	ELQ100	ELQ200	ELQ300	ELQ500	ELQ800
A	148	148	148	182	182
B	168	168	168	210	210
C	260	260	260	305	305
D	100	100	100	100	100
E	1/2"NPT	1/2"NPT	1/2"NPT	1/2"NPT	1/2"NPT
F	118	156	156	219	256
G	103	103	103	132	132
H	125	125	125	175	175
M	50	50	50	60	60
N	100	180	180	300	400
O max.	19.11	19.11	22.13	27.13	36.16
O min.	19.00	19.00	22.00	27.00	36.00
P	25.2	25.2	28.2	36.2	48.2
V1	70	70	70	102	102
V2	102	102	102	140	140
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"-11 x.98	5/8"-11 x.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°C to +60°C
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
- Fieldbus Foundation

Performance		ELQ100	ELQ200	ELQ300	ELQ500	ELQ800
Max. Torque (Nm.)	Break/Run	100	200	300	500	800
	max. load	10	14	18	22	36
Speed/90° (Sec.)	no load	6	8	13	17	28
	115VAC	1	1	1	1.7	1.7
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	4.0	5.3	5.1
	Power (W) Nominal	98	102	96	130	125
Weight (Kg)		13	14	14.5	28	30

**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](http://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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