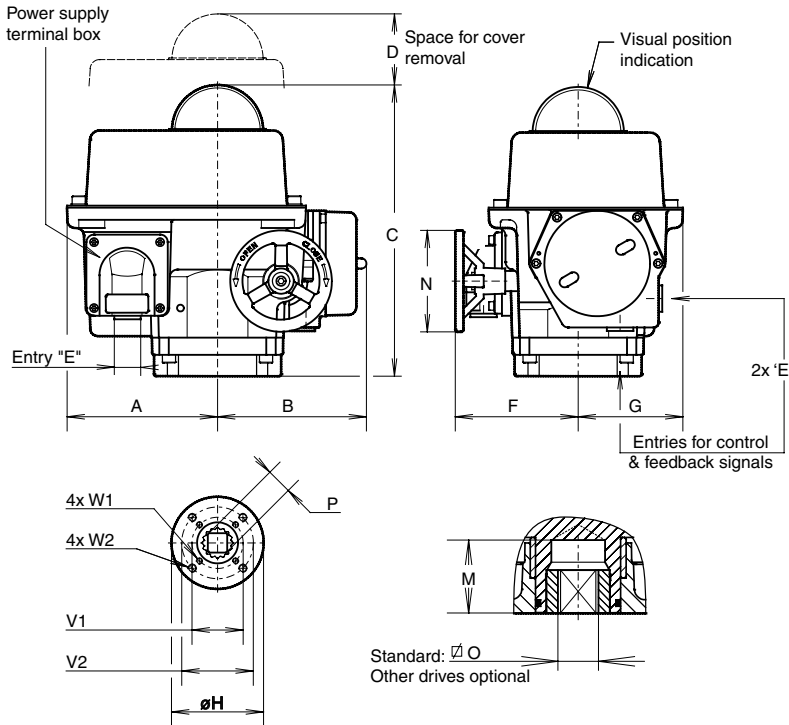


Data sheet

Sheet No.: 5.113 Rev. A
Date: November 2009

DIMENSIONS AND TECHNICAL DETAILS - ELECTRIC ACTUATOR

ELQ



Dim. in mm.	ELQ100	ELQ200	ELQ300	ELQ500	ELQ800
A	148	148	148	182	182
B	147	147	147	187	187
C	287	287	287	335	335
D	100	100	100	100	100
E	M20x1.5	M20x1.5	M20x1.5	M20x1.5	M20x1.5
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	M8x13	M8x13	M8x13	M10x16	M10x16
W2	M10x16	M10x16	M10x16	M16x25	M16x25

Description

Series ELQ electric actuators are rugged and powerful, 1/4 turn units with five sizes covering the torque range from 100 to 800 Nm. 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 aluminum alloy 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 removable for shipment, also to prevent local operation when this is a requirement. The mounting/drive is to ISO 5211.

Specification

Nominal Rotation : 90° - Analogue adjustable from 10° up to 100° of stroke
 Enclosure : IP65
 Temperature : -20°C to +70°C
 Electrical Entry : 3 x M20x1.5 , option : 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)
 Torque Control : Electronic
 Duty cycle : 100%
 Mechanical Stops : At 0° and 90°, adjustable +/- 10°
 Heater : Standard, 10 Watt
 Visual Indication : On top cover
 Finish : Two component polyurethane coating
 Materials : Housing : Aluminum alloy
 : External Steel Parts : Stainless Steel

Kit options

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

Factory options

- IP68
- Explosion proof FM
- High temperature
- Low temperature
- Bus communication:
 Fieldbus Foundation
 • 3 phase 460/500V, 60Hz

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 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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