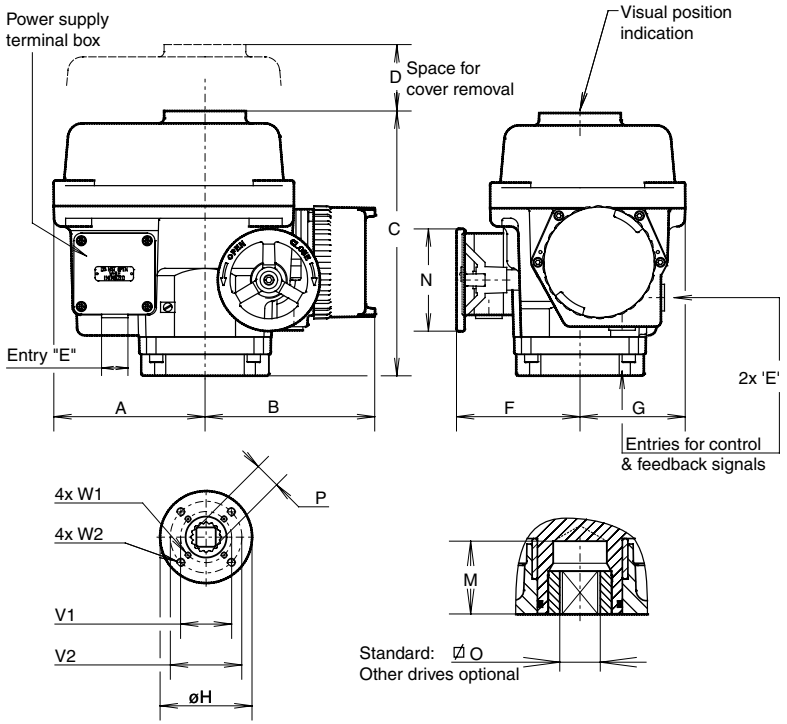
**Data sheet**
Sheet No.: 5.115 Rev. B
Date: November 2010

# DIMENSIONS AND TECHNICAL DETAILS - ELECTRIC ACTUATOR ELQ XP ATEX




| 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** | 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 XP electric actuators are 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 backflash free reduction gear idealy 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 flameproof 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. Modulair 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 | |
| Enclosure | : IP67 acc. to IEC529 | |
| Flame proof | : II 2 G EEx d IIB T4, acc. to EN50014 and EN50018 | |
| Certificate nr. | : KEMA 03ATEX2128X | |
| Temperature | : -20°C to +70°C | |
| Electrical Entries | : 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) | |
| Duty cycle | : 100% | |
| Torque Control | : Electronic | |
| Mechanical Stops | : At 0° and 90°, adjustable +/- 10° | |
| Heater | : Standard, 10 Watt. | |
| Visual Indication | : On top cover. | |
| Finish | : Two component polyurethane coating | |
| Materials | : External Steel Parts | : Stainless Steel |
| | : Housing | : Aluminum alloy |

**Kit options**
- Position control
- Extra limit switches
- Position transmitter
- Speed control
- Status option

**Factory options**
- IP68
- Low temperature

| Performance | | ELQ100 | ELQ200 | ELQ300 | ELQ500 | ELQ800 |
|---|---|---|---|---|---|---|
| **Max. Torque (Nm.)** | **Break/Run** | 100 | 200 | 300 | 500 | 800 |
| **Speed/90° (Sec.)** | **max. load** | 10 | 14 | 18 | 22 | 36 |
| | **no load** | 6 | 8 | 13 | 17 | 28 |
| **Current** | **115VAC** | 1 | 1 | 1 | 1.7 | 1.7 |
| **(A)** | **230VAC** | 0.5 | 0.5 | 0.5 | 0.9 | 0.9 |
| **Max.** | **400VAC** | 0.3 | 0.3 | 0.3 | 0.5 | 0.5 |
| | **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 |

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