



EF 25-250 rotary type electric actuator

Macro Electric actuators



features

TECHNICAL DATA

Rotating electric actuator that can be utilized in either open/close or modulating applications.

Used to operate valves with rotating angle from 90° to 180°

Open/close/middle position

Nominal torque: 10-100 Nm

Peak torque: 25-250 Nm

Rated voltage: : AC 100-230 V, 50/60 Hz AC/DC 24 V, 50/60 Hz

Rated voltage tolerance: +/- 15%

Protection class: IP 65 (IP 67 when used with cable glands and vertical installation) per EN60529

Actuators for industrial valves EN 15714-2

Ambient temperature: -10°C* +50°C

Allowable humidity: Max. 90% relative humidity, non-condensing

Housing material: glass-filled PP

* At temperature below -10°C and if there is condensation, the heating element should be activated.

OPTIONAL ON REQUEST

Positioner: Current, voltage

Network: Profibus DP

Fail safe return: Battery back up, externally powered board

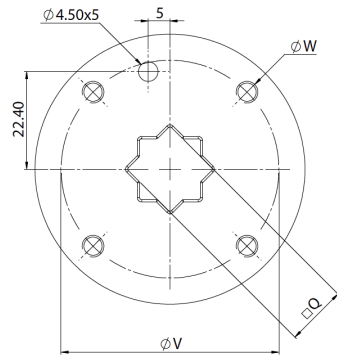
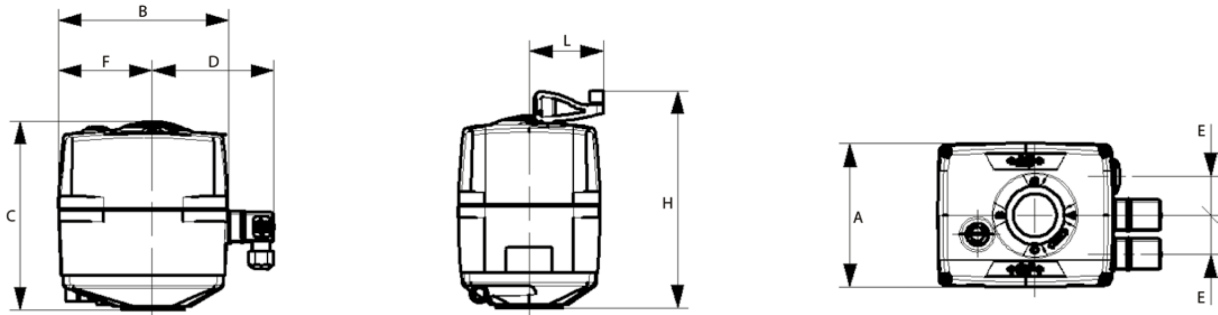
Smart module: Cycle monitoring, cycle counter, motor current monitoring



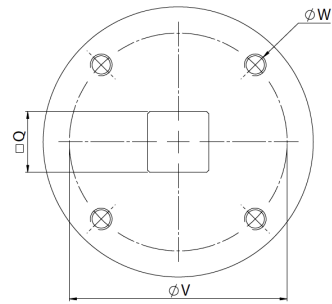
| DATA SHEET | | | | |
|--|---|---|--|---|
| | EF 25 | EF 45 | EF 120 | EF 250 |
| Nominal torque (Nm) | 10 | 20 | 60 | 100 |
| Peak output torque (Nm) | 25 | 45 | 120 | 250 |
| Duty cycle | 100% | 50% | 50% | 35% |
| Cycle time at nominal torque | 5 s/90° | 6 s/90° | 15 s/90° | 20 s/90° |
| Rated voltage | 100-230 VAC, 50/60 HZ 24VAC/DC, 50/60 HZ | | | |
| Rated output | 35VA @ 100-230VAC 40VA @ 24VAC/DC | 55VA @ 100-230VAC 60VA @ 24VAC/DC | 50VA @ 100-230VAC 55VA @ 24VAC/DC | 60VA @ 100-230VAC 65VA @ 24VAC/DC |
| Current draw | 0.35A @ 100VAC 0.15A @ 230 1.7A @ 24VDC | 0.55A @ 100VAC 0.24A @ 230 2.5A @ 24VDC | 0.5A @ 100VAC 0.22A @ 230 2.3A @ 24VDC | 0.55A @ 100VAC 0.26A @ 230 2.7A @ 24VDC |
| Weight (kg) | 2,1 | 2,2 | 3,6 | 5 |
| Actuating angle | Max. 355°, set @ 90° | | | |
| Tested cycles (at 20°C and nominal torque) | 250 000 | 100 000 | 100 000 | 75 000 |



dimensions



EF 25-45



EF 120-250

| DIMENSIONS | | | | | | | | | | | | |
|------------|-----|-----|-----|-----|-----|----|----|-----|----|----|----|----|
| TYPE | ISO | A | B | C | D | E | F | H | L | Q | φV | φW |
| EF 25 | F05 | 122 | 150 | 167 | 108 | 33 | 83 | 189 | 64 | 14 | 50 | M6 |
| EF 45 | F05 | 122 | 150 | 167 | 108 | 33 | 83 | 189 | 64 | 14 | 50 | M6 |
| EF 120 | F07 | 122 | 150 | 190 | 108 | 33 | 83 | 212 | 64 | 17 | 70 | M8 |
| EF 250 | F07 | 122 | 150 | 208 | 108 | 33 | 83 | 230 | 64 | 17 | 70 | M8 |