

# 90° TURN ELECTRIC ACTUATOR IP67 WEATHER PROOF

**OM-1** 

OM-2

### **General Description**

The OM series is a robust range of 1/4 turn electric actuators suitable for the on/off activation of Ball or Butterfly valves. A powerful motor with inbuilt thermal protection drives a pre-lubricated heavy duty steel gear train running in bronze bushes. They are encased in a powder coated die cast protective housing that has an IP67 rating (dust tight and submersible for limited periods). All models have a visual position indicator and a manual override.

The ISO 5211 mounting and female square drive allows direct coupling to valves with a similar configuration.

Standard models drive through  $90^{\circ}$  and can be fitted with voltage free contacts for end of stroke feedback.

Positioner models with 4-20mA or 2-10v modulating control are also available in all sizes.

#### Standard features

IP67 weatherproof rating and Humidity up to 95%

Ambient temp. -5°c... +60°C

Duty cycle is 30% to 75% depending on ambient temperature, voltage and actuator model, and relates to the 135°C thermal motor protection. (some modulating versions have a 75% duty cycle) Always allow a 35% safety margin when sizing torque requirements.

#### **Optional Features**

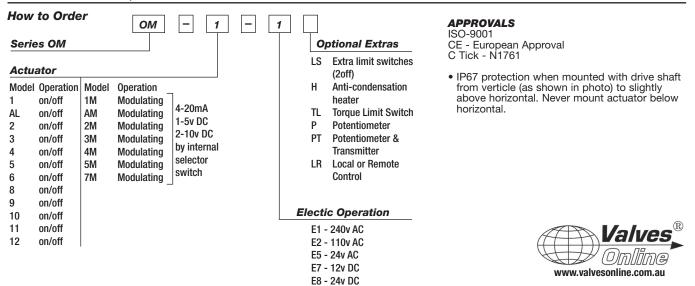
Torque limit switch (overload protection) Anti-condensation heater - 15 watt Two SPDT voltage free micro switches and cams (end of stroke feedback) Potentiometer and position transmitter (4-20mA feedback)

Modulating control (4-20mA or 2-10v input and feedback)

See overpage for applications warning. It is the responsibility of the user to determine suitability of the seat and body materials to the application

MODEL	TORQUE Nm	TIME (sec) 90º		(AMP) 12v AC/DC		(AMP) 24v AC/DC		(AMP) 110v AC		(AMP) 240v AC		(AMP) 415v	
		AC	DC	Run	Start	Run	Start	Run	Start	Run	Start	Run	Start
OM-1	35	13*	15	0.5	.3	0.6	0.8	0.5	1.5	0.3	1	-	-
OM-AL	50	24*	24	0.5	3	0.7	0.8	0.5	1.5	0.3	1	-	-
OM-2	90	17	15	3.4	5	3	5	1	3	0.5	1.5	0.4	1.3
OM-3	150	26	22	3.4	5	3	5	1	3	0.5	1.5	0.4	1.3
OM-4	400	18	16	7.5	12	6	8	1.3	3.1	0.6	1.5	0.8	2.5
OM-5	500	25	22	8.0	13	6.5	8	1.5	3	0.7	1.5	0.8	2.5
OM-6	650	31	28	8.5	14	7.5	8	1.8	3	0.8	1.5	0.8	2.5
OM-7	1000	55	46	-	-	7	8	3.2	12	1.6	4	0.4	0.6
OM-8	1500	55	46	-	-	7.5	8	4	14	2	3.6	0.6	0.8
OM-9	2000	70	58	-	-	7	8	3.2	12	1.6	5	0.4	0.6
OM-10	2500	70	58	-	-	7.5	8	4	12	2	4	0.4	0.6
OM-11	3000	70	58	-	-	10	10	3	10	1.6	4	0.6	0.8
OM-12	3500	70	58	-	-	15	15	4	14	2.2	4	0.6	0.8

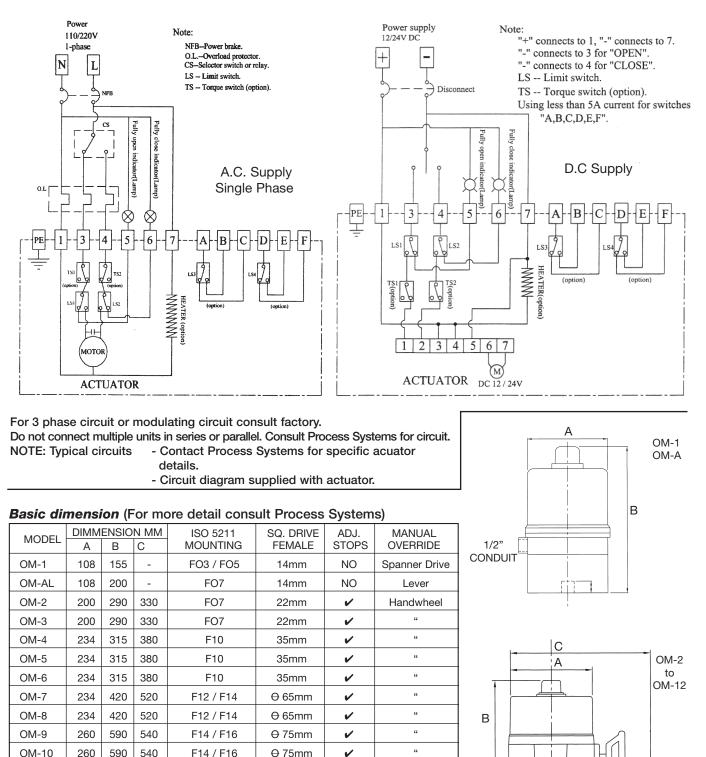
\*For 24VAC use the DC Speeds



E11 - 415v AC Ordering Example: OM-1-1 240 VAC Electric Actuator c/w lever (spanner face shaft) manual override, 90° turn on/off

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### Typical Wiring Diagram



THIS DATA SHEET CAN BE DOWNLOADED FROM OUR WEBSITE

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540

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OM-11

OM-12

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590

**S SYSTEMS** PTY LTD P.O. B

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O 75mm

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