# Electric drive: ROM Series



# ROM no longer available

The ROM Series of electric drives from Rotork ensures a low-noise, reliable actuation of various ball valves and butterfly valves. The drives have visual indicators that signal the position of the valve and also contain a manual actuator.

Torque limit switches provide additional protection for the motor. The working range of the servomotor can be set by means of limit switches. As standard the ROM drive is supplied with an anti-condensation heater element and extra limit switches.

The ROM can be supplied with an adaptor for the drive shaft so that it fits the ball valve or butterfly valve (ISO-top) to be actuated.

### **APPLICATION**

Electric drives are used predominantly as a control valve on butterfly valves in automated processes, such as pump and decontamination installations

# **CHARACTERISTICS**

- Narrow, compact and lightweight induction motors
- Non-clutch design: direct-acting manual operation
- 2 extra limit switches
- Anti-condensation heater element
- Thermostat
- Position indicator on the head of the motor
- ✓ ISO-top connection
- ✓ Torque switches and auxiliary switches
- ✓ Electric leadthrough 2x M20 x 1.5p
- Aluminium powder-coated water and dust-tight housing, IP68
- ✓ ISO 9001, CE standard
- 1 motor for both 12 24 V DC/AC, 50-60 Hz (multi-voltage)
- Optionally with potentiometer or position transmitter

### **TECHNICAL DATA**

Power supply : 12 - 24 V DC/AC, 50-60 Hz

(multi-voltage)

Maximum temperature : -30° to +70°C Relative humidity : 30% to 95%

Material : aluminium alloy with powder

coating



### Mechanical properties

Model	WEIGHT (kg)	Manual	Drive connection (mm)	Basic design (to ISO)
ROM-1	2,2	Level	14	F03/F05
ROM-A	2,8	Level	17	F05/F07
ROM-2	12	Handwheel	22	F07
ROM-3	12	Handwheel	22	F07
ROM-4	26	Handwheel	36	F10
ROM-5	26	Handwheel	36	F10
ROM-6	26	Handwheel	36	F10

### Electric performance (24V DC/AC)

cute performance (247 Boy Ac)									
Model	Speed (sec/°90)	Torque (Nm)	Max. motor power (W)	Motor speed (rpm)	Max. current run (A)	consumption lock (A)			
ROM-1	4,5	8	10	1700	0,6	1,2			
	20	35	3,75	1700	0,6	1,2			
ROM-A	30	50	3,75	1700	0,6	1,2			
ROM-2	17	90	43	1360	1,1	9			
ROM-3	22	150	43	1360	1,1	9			
	150	150	43	1360	1,1	9			
ROM-4	23	400	130	1250	5,5	20			
	150	400	130	1250	5,5	20			
ROM-5	30	500	130	1250	5,5	20			
ROM-6	38	650	130	1250	5,5	20			

# **INSTALLATION & MAINTENANCE**

### Installation

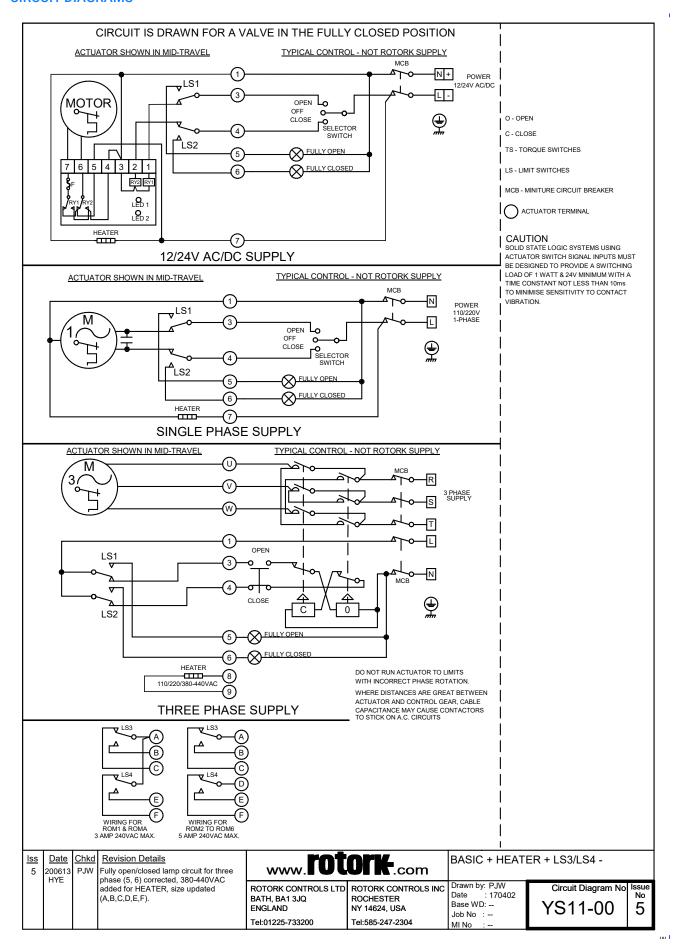
- Read the enclosed installation and maintenance instructions before installation.
- The bottom 2 limit contacts are for opening and closing. The top 2 extra 'vacant' limit contacts 1 and 3 and 2 and 4 are for the connection.
- The motor has a loose AC printed circuit board that can transform the voltage to DC (the motor is DC).
- The motor can therefore be connected as an AC or as a DC motor.
- Ensure correct wiring with respect to voltage and power.
- Seal the housing and the nut inlet after wiring by means of a matching cable nut or blind plug to prevent the ingress of dust or water and to retain the IP68 protection.
- On not install the motor upside down or under the horizontal line.
- On not install the motor if there is a possibility of hazardous or explosive gases.
- The motors are not suitable for continuous operation. Maintain a rest period of at least 2x the running time.
- If several electric drives have to operate at the same time, these must be connected using separate cables.

### Maintenance

Switch off the electric power supply before starting maintenance work.

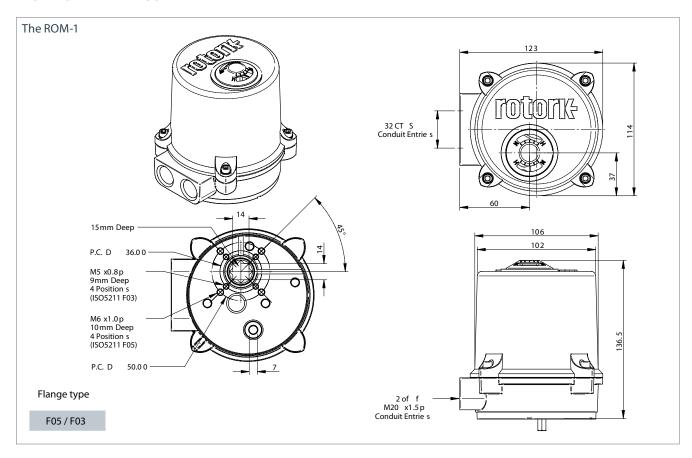


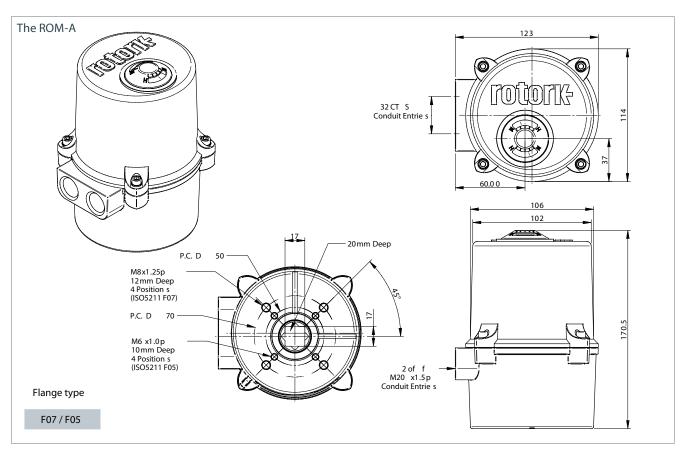
### **CIRCUIT DIAGRAMS**





# **TECHNICAL DRAWINGS I**







# **TECHNICAL DRAWINGS II**

