RM/XRM

Modulating And Two-Position Light Duty Actuators

Product Description

These actuators operate Satchwell MB valves. The XRM is a modulating actuator for use with Climatronic integral controllers and the MMC controller. The RM is a Mains Voltage Reversing Actuator for two-position control when used with a changeover type thermostat or modulating control when used with an appropriate controller. On power failure the actuator can be operated manually.





Specification

Application	Actuator	Transfer Switch Output Rating	Associated Valves
Integral (controlled by CXT, CXR, CSC or MMC, URC, IAC)	XRM3201	0.02A 24 Vac	
Two-Position (controlled by changeover ther- mostat or switch). Also suitable for mains output CSC, CMC, CSMC Construction	RM3601	3A 230 Vac	Three-port valves type MB see DS 4.501

Stroke:	90° angular in 4 minutes. Reversing. 2Nm	
Torque:		
Power Supply:		
XRM	24 V, 50/60Hz, consumption 0.5 VA	
RM	230 V, 50/60Hz, Consumption 5 VA	

Ambient Temper	ature Limits
Operating	-2035°C with water at 120°C. vater temperature ambient can be increased by
Storage	-4070 °C
Mounting Attitud The actuator must	e st be mounted with the drive shaft horizontal.
Construction Ma Case	terials Polycarbonate. Two 21mm conduit entries.
Terminals	Accept 3 x 1.5mm² or 2 x 2.5mm² cable
Motor	Split phase capacitor motor
Gear Train	Factory prelubricated for life
Actuator Position Indicator	Marked 010 visible from both sides through protective cover on top of actuator
Transfer Switche	s Two single-pole. Not electrically separate.
Protection Class	IP 41

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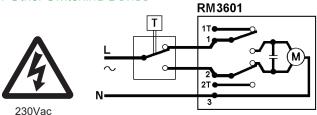
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Manual Operation

- Push operating knob towards actuator this disengages the drive.
- Rotating knob anti-clockwise will move actuator towards position '0'.
- Rotating knob clockwise will move actuator towards position '10'.

Connection Diagrams

Thermostat Or Other Switching Device



Energise terminal 1 to drive the valve open (Position 10)

Energise terminal 2 to drive the valve closed (Position 0)

Terminal 3 is common

Note: Do not connect actuators in parallel.

Energising terminal 1 drives the actuator output shaft towards position '10'. When position '10' is reached the supply on terminal 1 is transferred to terminal 1T and the actuator stops.

Installation

Notice

- Steam or hot water hazard. Before removing actuator from valve or opening valve, ensure that the valve control medium is isolated and relieve the pressure. Work should only be carried out by a competent engineer.
- DO NOT rotate actuator shaft mechanically.
- Ensure location is reasonably clean and dry with adequate access for fitting and wiring. Ambient temperature limits -20 to 50°C.



Energising terminal 2 drives the actuator shaft towards position '0', when this position is reached the supply to terminal 2 is transferred to terminal 2T. Between positions '0' and '10' no contact is made to either terminal 1T or 2T. This arrangement enables the supply from the controller to be transferred to a second actuator at the end of each stroke.

XRM3201

0V

0V

24V

2. Fit actuator as follows:

Rotary shoe valves type MB (Fig.2):

To

Controller

- a. Undo fixing screw, remove terminal cover and pull up locking plate.
- b. Check that tongue on actuator is in line with groove in valve spindle, if necessary rotate valve spindle to line up. c. Locate actuator keyhole fixing slots onto the fixing studs on valve and push actuator towards valve to engage fully. Depress locking plate.
- d. Connect wires to terminals in accordance with appropriate scheme diagram. Allow sufficient flexible conduit to permit easy removal of the actuator.
- e. Remove terminal cover and tighten fixing screw.

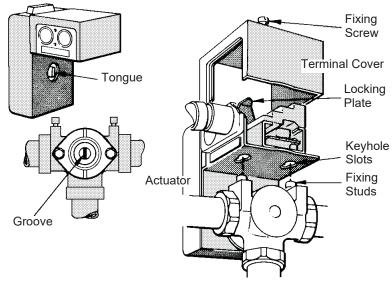


Figure 2