

M9184C1031



Overview

Series 90 Modutrol™ IV Motors non-spring return modulating proportional control motors used with controllers that provide a Series 90 output to operate dampers or valves

Features:

- Integral junction box provides NEMA 3 weather protection if motor is mounted in the upright position.
- Motor and circuitry operate from 24 Vac.
- Quick-connect terminals are standard; screw terminal adapter is available.
- Adapter bracket for matching shaft height of older motors is available.
- Motors have field adjustable stroke (90 to 160 degrees).
- Integral auxiliary switches are available factory mounted, or can be field added.
- All models have dual shafts (slotted and tapped on both ends).
- All models have auxiliary switch cams.
- Fixed torque throughout the entire voltage range.

Product Specifications

Description	Modutrol IV™ Motor
Application Type	Electric
Internal Auxiliary Switch	2
Fail Safe Mode	Non-Spring Return
Control Signal	Proportional, 135 ohm
Feedback	No
Motor shaft	Dual-ended shaft
Stroke	Adjustable; 90 to 160 degrees, Symmetrical
Torque Rating (lb-in.)	150 lb-in.
Torque Rating (Nm)	17 Nm
External Auxiliary Switches Available	Yes
Voltage	24V
Frequency	60 Hz
Frequency	50 Hz
Power Consumption Driving (VA)	15 VA
Electrical Connections	Quick-connect terminals
Shaft Dimensions (in.)	0.375 in.
Shaft Dimensions (mm)	10 mm
Shaft Shape	square
Mounting	Foot-mounted
Weight (lb)	6.5 lb
Dimensions (in.)	6 7/16 in. high x 5 1/2 in. wide x 7 5/16 in. deep
Dimensions (mm)	164 mm high x 140 mm wide x 185 mm deep
Temperature Range, Ambient (F)	-40 F to +150 F
Temperature Range, Ambient (C)	-40 C to +60 C
Deadweight Load on Shaft (Either End) (lb)	200 lbs.
Deadweight Load (Combined on both Shafts)	300 lbs.
Nominal Timing (sec)	30-60 sec
Shaft Rotation (upon control signal increase)	Clockwise (as viewed from power end) (normally closed)
Auxiliary Switch Ratings AFL - 120 Vac	7.2A
Auxiliary Switch Ratings AFL - 240 Vac	3.6A
Auxiliary Switch Ratings ALR- 120 Vac	43.2A
Auxiliary Switch Ratings ALR- 240 Vac	21.6A
Approvals, Underwriters Laboratories Inc	Listed: File No. E4436, Guide No. XAPX for USA and Canada
Approvals, CE	EN55011 (Emission) EN50082-2 (Immunity) 73/23/EEC (LVD)