



ACTUATORS & DAMPERS

HONEYWELL MODUTROL IV MOTORS

M4000, M6000, M7000, M8000, M9000 SERIES

Honeywell

DESCRIPTION

Modutrol IV Motors replace all older generation Modutrol Motors for dampers and valves. Both drive and auxiliary shafts have equal torque ratings, allowing the auxiliary shaft to drive full torque loads. This provides a more flexible motor. For example, a spring return, normally closed motor will provide normally open operation simply by using the auxiliary shaft. The **Modutrol IV Motor** housing protects the motor from driving rain if the motor is mounted in the upright position. It may be

mounted outdoors without a weather-proofing kit. Because of reduced power consumption, motor power needs can be satisfied with a 40 VA transformer.

FEATURES

- *Long life*
- *NEMA 3 housing*
- *Reduced power consumption*

MODELS	
NON-SPRING RETURN	HIGH TORQUE SPRING RETURN
M6184 M7284 M9174 M9194 M6194 M9164 M9184	M4185 M7285 M8185 M9185
 CE UL SP	 CE UL SP

SPECIFICATIONS	
Dead weight load on shaft Power or auxiliary end 200 lb (90.8 kg) max Max combined load 300 lb (136 kg) Ambient temp Max 150°F (66°C) @ 25% duty cycle Min -40°F (-40°C)	Crankshaft 3/8" (0.95 cm) square, dual-ended shaft Agency approvals UL listed, CSA, CE Guide #400-E Warranty 2 years Signals Model-specific Floating, proportional or 2-position



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ORDERING INFORMATION

MODEL	POWER SUPPLY VOLTAGE	INPUT SIGNAL	TIMING* (sec)	STROKE** (deg)	AUX SWITCH	NORMAL POSITION		TORQUE in-lb (Nm)	WEIGHT lb (kg)
						Mechanical	Electrical		
TWO-POSITION REVERSING (TRI-STATE CONTROL WITH NON-SPRING RETURN)									
M6184A1015	24	SPDT	30	90	0	—	—	150 (17)	6.5 (2.9)
M6184A1023	120	SPDT	30	160	0	—	—	75 (8.5)	6.5 (2.9)
M6184F1014	24	SPDT	30-60	90-160	2	—	—	150 (17)	6.5 (2.9)
M6194B1011	24	SPDT	60	90	1	—	—	300 (34)	6.5 (2.9)
M6194E1006	24	SPDT	120-240	90-160	1	—	—	300 (34)	6.5 (2.9)
TWO-POSITION SPRING RETURN									
M4185A1001	120	SPST	60	160	0	N.C.	—	60 (7)	9.5 (4.3)
M4185B1009	120	SPST	60	160	1	N.C.	—	60 (7)	9.5 (4.3)
M8185D1006	24	SPST	30-60	90-160	0	N.C.	—	60 (7)	9.5 (4.3)
PROPORTIONAL REVERSING WITH NON-SPRING RETURN									
M9164A1005	120	135Ω	30-60	60-160	0	—	N.C.	35 (4)	7.5 (3.4)
M9164C1001	24	135Ω	60	160	2	—	N.C.	35 (4)	7.5 (3.4)
M9164C1068	120	135Ω	30	90	2	—	N.C.	35 (4)	7.5 (3.4)
M9164D1009	24	135Ω	30-60	90-160	0	—	N.C.	35 (4)	7.5 (3.4)
M9174B1027	120	135Ω	30-60	90-160	0	—	N.C.	75 (8.5)	7.5 (3.4)
M9184D1021	24	135Ω	30-60	90-160	0	—	N.C.	150 (17)	6.5 (2.9)
M9184F1034	24	135Ω	30-60	90-160	2	—	N.C.	150 (17)	6.5 (2.9)
M9194E1000	120	135Ω	120-240	90-160	1	—	N.C.	300 (34)	6.5 (2.9)
M7284A1004	120	4-20 mA	30-60	90-160	0	—	N.C.	150 (17)	6.5 (2.9)
M7284C1000	120	4-20 mA	30-60	90-160	2	—	N.C.	150 (17)	6.5 (2.9)
PROPORTIONAL REVERSING WITH SPRING RETURN									
M7285A1003	120	4-20 mA	30-90	90-160	0	N.C.	N.C.	60 (7)	9.5 (4.3)
M7285C1009	120	4-20 mA	30	90	2	N.C.	N.C.	60 (7)	9.5 (4.3)
M7285C1017	120	4-20 mA	60	160	2	N.C.	N.C.	60 (7)	9.5 (4.3)
M7285Q1008†	120	4-20 mA	30-60	90-160	2	N.C.	N.C.	60 (7)	9.5 (4.3)
M9185D1004	24	135Ω	30-60	90-160	0	N.C.	N.C.	25 (3)	8.5 (3.9)
M9185A1018	24	135Ω	60	90-160	0	N.C.	N.C.	60 (7)	8.5 (3.9)
M9185C1006	24	135Ω	60	160	2	N.C.	N.C.	60 (7)	8.5 (3.9)
M9185E1019	24	135Ω	30-60	90-160	1	N.C.	N.C.	60 (7)	8.5 (3.9)

* Shorter timing refers to 90-degree stroke.

** Use 90-degree stroke for dampers, 160-degree stroke for Honeywell valves.

† Inputs have adjustable zero and span for split range applications.

Note: Not all Honeywell motor models are shown above. Consult Kele for a complete listing.