

# Motors, Firing Rate

## M9484D,E,F; M9494D Modutrol® IV Motors



Reversing, proportional motors used to drive burner firing rate valves, dampers or auxiliary equipment. Replace M941A,C,D motors.

- Designed for flame safeguard applications in commercial/industrial oil or gas burner system.
- Vibration resistant electronic drive circuit.
- Regulated by three-wire proportional controller.
- Stroke is field-adjustable to 90 or 160 degrees.

**Dimensions, Approximate:** 6.45 in. high, 5.50 in. wide, 7.30 in. deep  
(164 mm high, 140 mm wide, 185 mm deep)

**Power Consumption:** 18 W

**Power Supply:** 24 Vac

**Crankshaft:** double-ended, 3/8 in. (9.5 mm) square

**Dead Weight Load On Power Shaft:** 200 lb (300 lb combined power and auxiliary shafts)

(90.8 kg (136 kg combined power and auxiliary shafts))

**Materials:** 200 lb (300 lb combined power and auxiliary shafts)

(90.8 kg (136 kg combined power and auxiliary shafts))

**Frequency (Hz):** 50/60 Hz

**Input Signal:** 135 ohm

**Switch Ratings (120 Vac):** (7.2 AFL, 43.2 ALR, 40 VA pilot duty opposite contact)

**Switch Ratings (240 Vac):** 3.6 AFL, 21.6 ALR, 40 VA pilot duty opposite contact

**Temperature Ratings (ambient):** -40 F to 150 F (-40 C to 66 C)

**Approvals:**

**Canadian Standards Association:** Certified: File No. LR1620, Guide No. 400-E

**Underwriters Laboratories, Inc:** Listed: File No. E4436, Guide No. XAPX

Product Number	Torque, running	Torque, Breakaway		Timing		Auxiliary Switch	Auxiliary Switch Setting	Comments
		(lb-in.)	(Nm)	90 degree stroke (sec)	160 degree stroke (sec)			
M9484D1010	150 lb-in;17.0 N m	300 lb-in.	34.0 Nm	30 seconds	60 seconds	—	—	—
M9484E1009	75 lb-in;8.5 N m	150 lb-in.	17.0 Nm	15 seconds	30 seconds	1	11 degrees	Includes tapped shaft
M9484E1017	150 lb-in;17.0 N m	300 lb-in.	34.0 Nm	30 seconds	60 seconds	1	1 degree	—
M9484E1033	150 lb-in;17.0 N m	300 lb-in.	34.0 Nm	30 seconds	60 seconds	1	4 degrees	Shipped in 90 degree position, includes motor crank arm
M9484F1007	150 lb-in;17.0 N m	300 lb-in.	34.0 Nm	30 seconds	60 seconds	2	5 degrees and 54 degrees	Shipped in 90 degree position
M9484F1023	75 lb-in;8.5 N m	150 lb-in.	17.0 Nm	15 seconds	30 seconds	2	—	Includes tapped shaft
M9484F1031	150 lb-in;17.0 N m	300 lb-in.	34.0 Nm	30 seconds	60 seconds	2	5 degrees and 54 degrees	Shipped in 90 degree position, includes tapped shaft
M9484F1049	150 lb-in;17.0 N m	300 lb-in.	34.0 Nm	30 seconds	60 seconds	2	35 degrees and 120 degrees	Shipped in 160 degree position
M9494D1000	150 lb-in;17.0 N m	150 lb-in.	17.0 Nm	30 seconds	60 seconds	—	54 degrees and 5 degrees	—