

Kit Mounted Motors

M436; M836 Damper Motors



Dimensions, Approximate: 4 1/2 in. high x 4 5/8 in. wide x 3 3/4 in. deep
(114 mm high x 118 mm wide x 95 mm deep)

Fail Safe Mode: Spring Return

Control Signal: Two position, SPST

Internal Auxiliary Switch: 1

External Auxiliary Switches Available: Yes

Torque Rating, Breakaway: 30 lb-in.

Electrical Connections: Screw terminals

Frequency: 60 Hz

Spring Return Timing (Maximum (seconds)): 25 sec

Mounting: Foot-mounted

Spring return motors for two-position back draft, outdoor air changeover, zone, or minimum position damper control.

- Operate outdoor air dampers for combustion or makeup air in residential and light commercial applications
- Operate changeover dampers for heating and cooling systems
- Operate minimum position dampers for ventilation and similar applications
- Include internal SPDT switch for controlling auxiliary equipment, additional motors, or to provide a burner interlock switch
- Spring returns motor to start position on power failure
- Drive shafts located on both sides of motor
- Adjustable auxiliary switch for cascading motors or operating auxiliary equipment
- Thermal breaker for overload protection during lifting stroke or if motor stalls

Motor Shafts: 2

Shaft Shape: Hexagonal

Angle of Rotation (Stroke Max (deg)): 75

Angle of Rotation (Stroke Min (deg)): 75

Operating Temperature Range: 32 F to 125 F (0 C to 52 C)

Operating Humidity Range (% RH): 5 to 95% RH

Weight: 4 lb 10 oz (2.1 kg)

Approvals

Underwriters Laboratories, Inc: Listed File: E4436, Guide: XAPX

Product Number	Torque Rating		Voltage	Run Time (Maximum (seconds))	Timing Opening, Nominal (seconds)	Nominal Current Draw (amps)		Nominal Power (watts)		Includes	Used With
	(lb-in.)	(Nm)				Opening	Holding	Opening	Holding		
* M436A1116/U	20 lb-in.	2.3 Nm	120 Vac	40 sec	Open: 30 sec	0.37 A	0.12 A	28 W	8.5 W	—	—
* M436A1124/U	20 lb-in.	2.3 Nm	240 Vac	40 sec	Open: 30 sec	0.19 A	0.06 A	29 W	8.5 W	Includes Bracket 198545	—
M436A1140/U	20 lb-in.	2.3 Nm	220 Vac	55 sec	Open: 30 sec, Close: 25 sec	0.21 A	0.062 A	30 W	8.5 W	Ground and cover screw	Series 40, 80 circuits
* M836A1042/U	20 lb-in.	2.3 Nm	24 Vac	40 sec	Open: 30 sec	1.85 A	0.6 A	28 W	8.5 W	—	—
* M836B1033/U	15 lb-in.	1.7 Nm	24 Vac	40 sec	Open: 25 sec	1.34 A	0.73 A	20.3 W	11.2 W	—	—

* TRADELINE models • SUPER TRADELINE models

M835 Two-Position Zone Damper Actuator



Dimensions, Approximate: 5 1/2 in. high x 4 1/4 in. wide x 2 5/8 in. deep
(140 mm high x 108 mm wide x 67 mm deep)

Fail Safe Mode: Spring Return

Control Signal: Two position, SPST

External Auxiliary Switches Available: No

Torque Rating, Breakaway: 30 lb-in.

Electrical Connections: Lead wire in conduit box

Frequency: 60 Hz

Mounting: Foot-mounted

Motor Shafts: 2

Shaft Shape: Round

Angle of Rotation (Stroke Max (deg)): 60

Angle of Rotation (Stroke Min (deg)): 75

Operating Temperature Range: Cooling: 140 F, Heating: 200 F
(Cooling: 60 C, Heating: 93 C)

Operating Humidity Range (% RH): 5 to 95% RH

Product Number	Torque Rating		Voltage	Run Time (Maximum (seconds))	Nominal Power (watts)	
	(lb-in.)	(Nm)			Opening	Holding
* M835A1051/U	4 lb-in.	0.45 Nm	24 Vac	Open: 80 sec, Close: 160 sec	27 W	8.5 W

* TRADELINE models • SUPER TRADELINE models