



MNM1 Motor Operator



Catalog MNM1-150483AL

Type: MNM1

Torque: 10,000, 15,000, 20,000 inch-lbs

Operating Speed: 0-2, 3-5, 6-8, 9-13 seconds

Motor Control Voltage: 24, 48, 125 VDC

Description

A single speed, torsional output motor operator for the control of group operated disconnect switches. This unit is automation-ready and includes alarms and contact indication of motor operator status and condition. A two-speed unit is available for switches with blade latching mechanisms requiring normal open and fast slam close.

Application

Provides local, remote and automatic operation of switches in transmission and substation applications, including operation through relay, supervisory control and automatic transfer/sectionalizing schemes.

Features & Benefits

- High ratio of features to cost
- Quick, simple field installation saves time and cost
- Maintenance-free design
- Unit is automation-ready providing a platform for easy integration of an rtu, radio, line sensors, relays and other automation related devices within a single enclosure
- Operates all makes and models of switches - eliminates need to design for, order, maintain and train personnel on multiple styles of operators

Ordering Information

Standard Equipment

Type "MNM1" motor operators come complete with a galvanized steel mounting bracket, an operator control panel with local/remote switch, open/close push buttons and local indicating lights, 8 form "c" auxiliary contacts for customer use, DC knife switch, adjustable heater with recirculating fan and data logger, 15 amp GFI receptacle, terminal blocks, door operated interior convenience light, torque relief knob, swing handle for manual operation, external coupling/de-coupling mechanism, removable door with lift-off hinges, door hold back, screened louvre with removable dust filter, heavy duty stainless steel three point door latch, drawing pocket, an aluminum enclosure, door open status indication contact, local/remote switch position indication contact, DC knife switch position indication contact and swing handle removed status indication contact with remote operation lock-out for operator safety.

Optional features, ratings and product specifications are listed on the following page.

To Be Specified on Order

To obtain pricing information or to place an order, the following minimum information must be specified:

- Catalog Number
- Torque: 10,000, 15,000 or 20,000 inch-lbs
- Motor Control Voltage: 24, 48 or 125 VDC
- Operating Speed Range: 0-2, 3-5, 6-8, 9-13 seconds
- Enclosure: Aluminum or stainless steel
- Mounting structure with details and control pipe offset dimension
- IPS of switch control pipe
- Direction to open: CW or CCW
- Optional equipment or non-standard features
- Manufacturer and catalog number of switch to operate

An Order Specification checklist is available to assist you in organizing and completing the information required. You may obtain a copy of the checklist by contacting SEECO, your local sales representative, or on-line at www.seecoswitch.com



Catalog Numbers and Ratings

Operating Voltage	Operating Speed	Enclosure Material	Torque (inch-lbs)			Weight, Lbs	
			10,000	15,000	20,000	Install	Ship
24 VDC	0-2 3-5 6-8 9-13	AL	MNM1-100240AL	MNM1-150240AL	MNM1-200240AL	285	320
			MNM1-100243AL	MNM1-150243AL	MNM1-200243AL	285	320
			MNM1-100246AL	MNM1-150246AL	MNM1-200246AL	285	320
			MNM1-100249AL	MNM1-150249AL	MNM1-200249AL	285	320
	0-2 3-5 6-8 9-13	SS	MNM1-100240SS	MNM1-150240SS	MNM1-200240SS	305	340
			MNM1-100243SS	MNM1-150243SS	MNM1-200243SS	305	340
			MNM1-100246SS	MNM1-150246SS	MNM1-200246SS	305	340
			MNM1-100249SS	MNM1-150249SS	MNM1-200249SS	305	340
48 VDC	0-2 3-5 6-8 9-13	AL	MNM1-100480AL	MNM1-150480AL	MNM1-200480AL	285	320
			MNM1-100483AL	MNM1-150483AL	MNM1-200483AL	285	320
			MNM1-100486AL	MNM1-150486AL	MNM1-200486AL	285	320
			MNM1-100489AL	MNM1-150489AL	MNM1-200489AL	285	320
	0-2 3-5 6-8 9-13	SS	MNM1-100480SS	MNM1-150480SS	MNM1-200480SS	305	340
			MNM1-100483SS	MNM1-150483SS	MNM1-200483SS	305	340
			MNM1-100486SS	MNM1-150486SS	MNM1-200486SS	305	340
			MNM1-100489SS	MNM1-150489SS	MNM1-200489SS	305	340
125 VDC	0-2 3-5 6-8 9-13	AL	MNM1-101250AL	MNM1-151250AL	MNM1-201250AL	285	320
			MNM1-101253AL	MNM1-151253AL	MNM1-201253AL	285	320
			MNM1-101256AL	MNM1-151256AL	MNM1-201256AL	285	320
			MNM1-101259AL	MNM1-151259AL	MNM1-201259AL	285	320
	0-2 3-5 6-8 9-13	SS	MNM1-101250SS	MNM1-151250SS	MNM1-201250SS	305	340
			MNM1-101253SS	MNM1-151253SS	MNM1-201253SS	305	340
			MNM1-101256SS	MNM1-151256SS	MNM1-201256SS	305	340
			MNM1-101259SS	MNM1-151259SS	MNM1-201259SS	305	340

Optional Equipment

ter
 Main AC Breaker
 Main DC Breaker
 AC Knife Switch
 Switch Position/Coupled Status
 Motor Current Monitor
 Sliding Link Terminal Blocks
 Protective Shroud
 Auto-Throwover Control
 Reciprocating Operation Adapter
 Enlarged Door
 Pre-Wire RTU/Comm Device
 Heat Shields
 DC-to-DC Converter - 48/12
 Operation Counter
 Stop Push Button
 Miscellaneous Optional Feature

Let-

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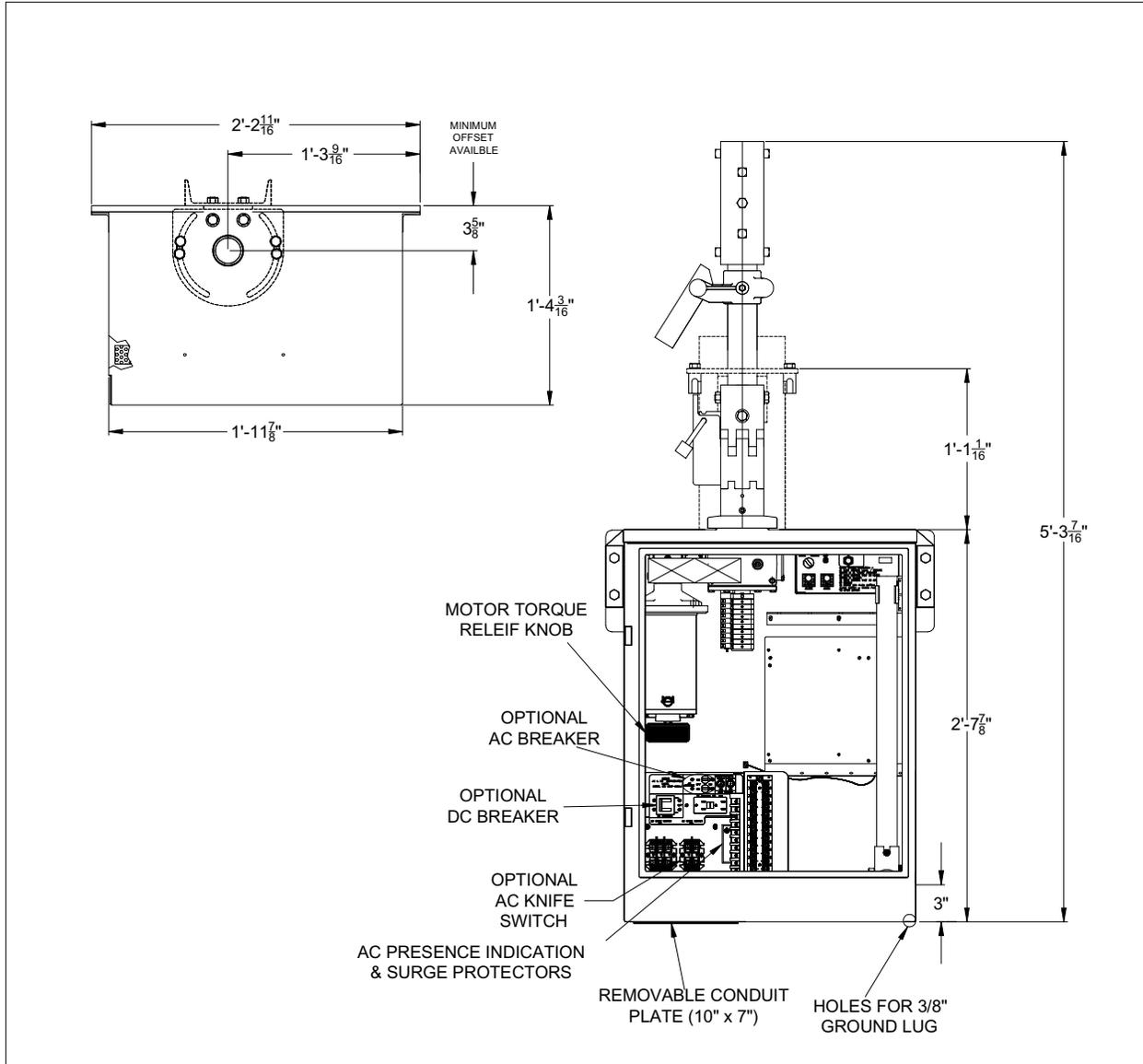
(1) To specify an option, add a hyphen (-) to the base catalog number and your desired option by letter. Reference the following example: MNM1-101253AL-AGJ for optional operation counter, switch position/coupling status indication and protective shroud.

(2) To designate two speed operation (normal open, fast slam close) for switches with blade latching mechanisms, add a "-T" to the base catalog number. Reference the following example: MNM1-200240SS-T.

(3) For a more complete description of optional equipment, please refer to the Overview Section for the MNM product family, which immediately precedes this catalog section



Dimensional Data



Specifications

Operating Voltage	24, 48, 125 VDC
Temperature Range	-40° F to +160° F
Motor	3/4 HP DC motor
Pipe Coupling	1-1/2, 2, 2-1/2 inch IPS
Torque	10,000, 15,000, 20,000 inch-lbs
Operating Speed	0-2, 3-5, 6-8, 9-13 seconds (180°)
Rotation	0-359°

(1) A complete product specification can be found immediately following these MNM product catalog sections. The specification provides a more detailed technical description than this catalog section, with an emphasis on industry standards, design criteria, and product features and functionality. Sample specifications (templates), for customer use in creating their own internal specification, can be obtained by contacting SEECO's Engineering department.

