



Order Specifications for Type MNM Motor Operators

Document OS-001-1
Revised October 10, 2023

Please contact our Application Engineering personnel at (704)-893-0222 if you require assistance in completing the Order Specification or if you have requirements other than what is shown. If we must contact you to confirm your information, please provide a contact name and number. If more than one Motor type is required, please fill out a separate Order Specification sheet for each motor type.

Organization _____ Contact (Name) _____

Phone # _____ E-Mail Address _____

These motors are typically used for Transmission applications. For more specific Substation applications, refer to SUB Motor Operator Spec Sheet ([OS-001-1](#)).

For solar motor applications, refer to MNM Solar Operator Spec Sheet ([OS-001-5](#)).

Order Spec sheets available at www.seecoswitch.com.

1. Motor Operator

1.1. Configuration:

Qty. _____ MNM1 (without batteries or charger)

Qty. _____ MNM2 (with batteries, charger, and battery system)

1.2. Torque:

Torque (inch/lbs)	10,000	15,000	20,000*	30,000*
Operating Speed (sec)	0-2	3-5	6-8	9-13

☐ ☐ ☐ ☐

* 20,000 & 30,000 inch/lbs require 44AH battery at a minimum. If unsure of torque needed, be sure section 2 is filled out.

1.3. Operator System Voltage: (MNM1 Only)

☐ 24VDC

☐ 48VDC

☐ 125VDC

1.4. For MNM2 specify batteries:

☐ 35aH AGM (Default)

For mild climates and easier operating switches; shortest backup time.

☐ 44aH AGM

For harder operating switches and more backup time.

☐ 75aH AGM

For longer backup time, used when more radio & RTU loads are present.

☐ 75aH Lithium

Same as above, but longer life expectancy.

1.5. Customer Supplied AC Voltage:

(AC Voltage is only required for MNM1 & MNM2)

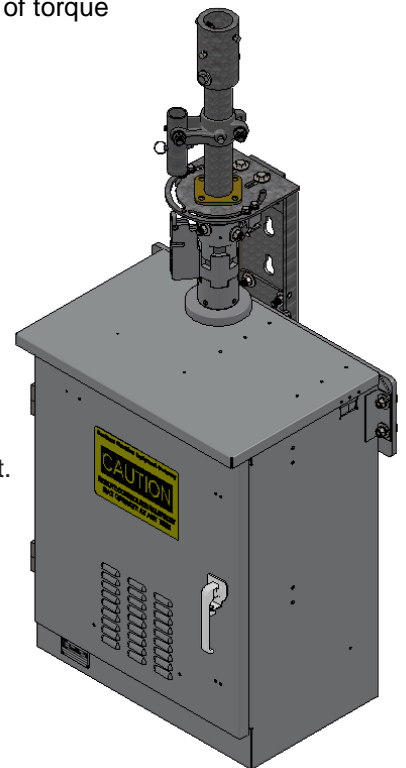
☐ 120VAC (Default)

☐ 240VAC

1.6. Enclosure:

☐ Aluminum (Default)

☐ Stainless Steel





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2. Group Operated Switch

2.1. Manufacturer: _____

Catalog Number: _____

kV Rating: _____

2.2. Switch Type:

- ☐ Vertical Break ☐ Center Break ☐ Side Break
☐ Center Vee ☐ Double End Break ☐ Other: _____

2.3. Interrupting Device & Brand: _____

3. Structure Mounting

3.1. Structure Mounting:

- ☐ Flat Back
☐ Round Back
☐ Other: _____ (Provide Drawings)

3.2. Offset dimension from face of structure to centerline of vertical control pipe _____ inches (6 1/4" Default)

3.3. Size of switch control pipe (IPS):

- ☐ 1 1/2" IPS ☐ 2" IPS (Default)
☐ 2 1/2" IPS ☐ Other: _____

4. Control

4.1. Control of motor operator will be accomplished through:

- ☐ Substation Relay
☐ RTU
☐ Independent automatic control (line sensor)
☐ Other: _____

4.2. If control is remote through RTU specify the following:

Manufacturer: _____

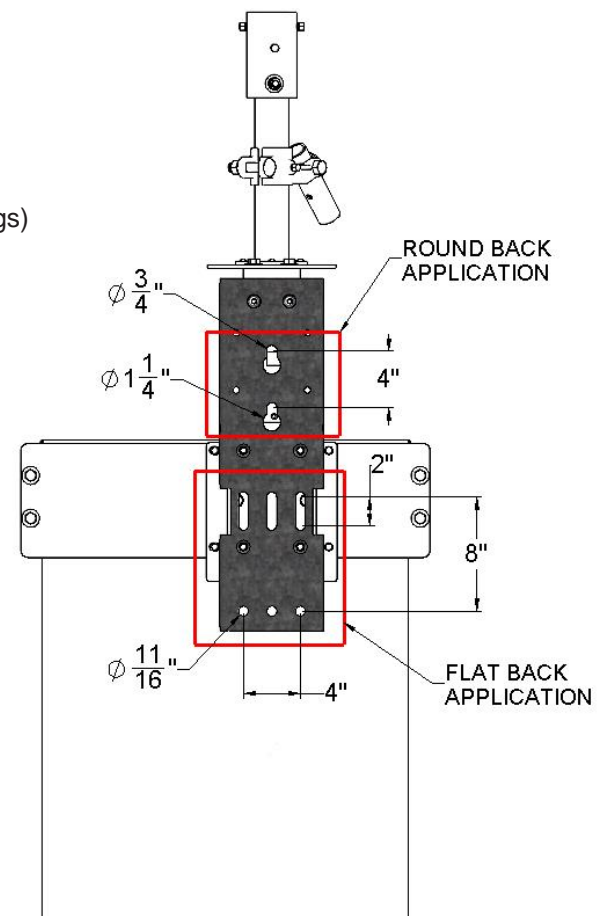
Catalog Number: _____

Operating Voltage: _____ VDC

Current Draw: _____ Amps

4.3. RTU's communication method:

- ☐ Radio ☐ Modem ☐ Fiber Optic
☐ Cell Phone ☐ Other: _____





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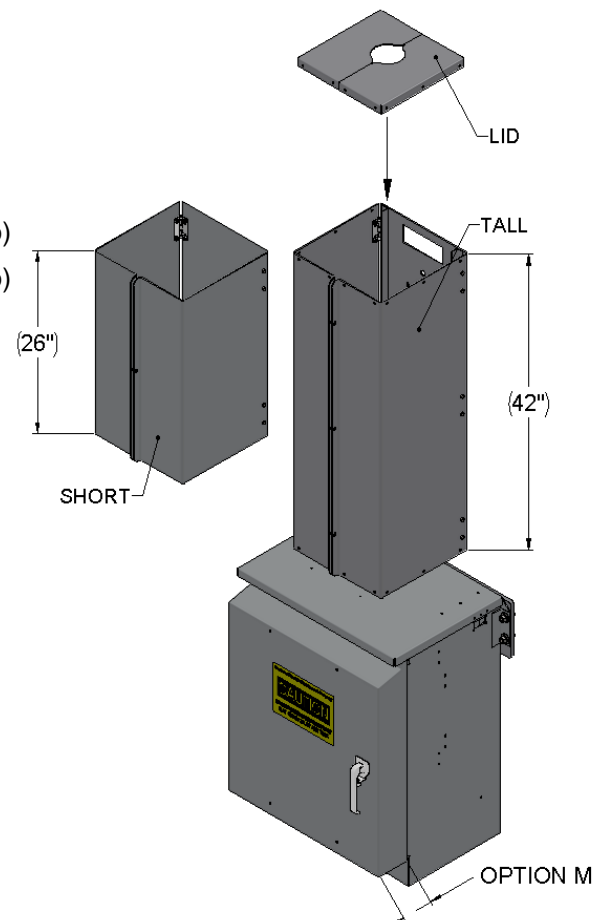
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- 4.4. RTU's communication device:
Manufacturer: _____
Catalog Number: _____
Operating Voltage: _____ VDC
Current Draw (receive mode): _____ Amps
Current Draw (transit mode): _____ Amps
Transit/receive duty cycle: _____ %
- 4.5. RTU's mounting location:
☐ Inside Cabinet ☐ Outside Cabinet
- 4.6. RTU provided by SEECO:
☐ Yes ☐ No
- 4.7. RTU installed by SEECO, (if yes, provide status/control prints):
☐ Yes ☐ No
- 4.8. Communication device provided by SEECO:
☐ Yes ☐ No
- 4.9. Communication device installed by SEECO, (if yes, provide device connections):
☐ Yes ☐ No

5. Optional Features

5.1. Below is the list of available options labeled alphabetically.

- A. Not used
- B. ☐ 24-12 DC Converter (For powering 12VDC RTU/Radio)
- C. ☐ 24-48 DC Converter (For powering 48VDC RTU/Radio)
- D. ☐ AC Breaker
- E. ☐ DC Breaker
- F. ☐ AC Knife Switch
- G. ☐ Switch Position/Coupled or De-Coupled Position
- H. ☐ Motor Overcurrent Monitor
- I. Not used
- J. Protective Shroud (See image)
☐ Short ☐ Tall ☐ Lid
- K. ☐ Auto-Sectionalizer Feature
- L. ☐ Reciprocating Adapter (Push-Pull operator)
- M. RTU Door (See image)
☐ 1" (Default) ☐ 4" (Shown) ☐ 6" ☐ 10"
- N. ☐ RTU Pre-wire and/or Mount





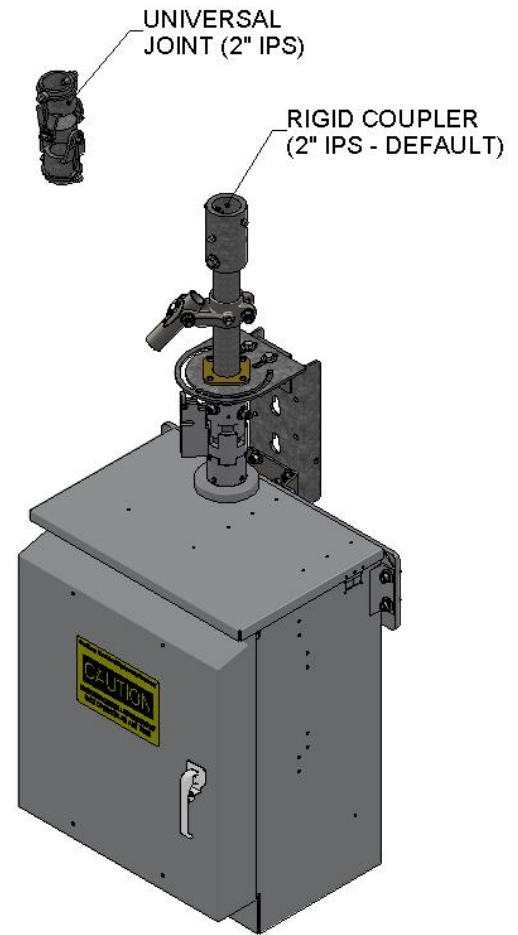
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- O. Temperature Shields
☐ Extreme Heat ☐ Extreme Cold
- P. ☐ Manual Hand Crank
- Q. ☐ Universal Operating Counter
- R. ☐ Stop Push Button
- S. ☐ Universal Joint (2" IPS)
- T. ☐ Two Speed Operation
- U. ☐ SEECO SENSE Mounting and Wiring
- V. Not used
- W. Not used
- X. ☐ AC or DC Operated Motor Operator
(AC Primary motor voltage/Battery backup)
- Y. ☐ Auxiliary Cabinet Assembly
- Z. ☐ Miscellaneous Options (Provide Specs)

Common Requests:

- ☐ Time Delay: _____ sec.
Local/Remote Switch
- ☐ Latch (Default) ☐ Momentary ☐ Delete
- ☐ Sealed Vents for very fine dust
- ☐ Customer Specific Terminal Blocks
- ☐ Interlock
- ☐ Etc., (Specify below)



Note:

- Option "G" indicates true switch position status. (for open, close, and coupling indication).
- Option "H" indicates motor overcurrent.
- Option "GH" combines G & H (for open, close, coupling indication and motor overcurrent indication).