



Order Specifications for Type MNM Motor Operators (Solar)

Document OS-001-5

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 Solar Transmission applications.
Order Spec sheets available at www.seecoswitch.com.

1. Motor Operator

1.1. Configuration:

Qty. _____ MNM3 (without batteries or charging system, requires external 24V DC supply)

Qty. _____ MNM4 (with batteries and solar 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

☐ ☐ ☐ ☐

If unsure of torque needed, be sure section 2 is filled out.

1.3. For MNM4 specify battery type:

☐ AGM (Standard Lead Acid type)

☐ Lithium (Longer Life)

1.4. Expected Battery Backup Time:

_____ hr.

1.5. Enclosure:

☐ Aluminum (Default)

☐ Stainless Steel

2. Group Operated Switch

2.1. Manufacturer: _____

Catalog Number: _____

kV Rating: _____

2.2. Switch Type:

☐ Vertical Break

☐ Center Break

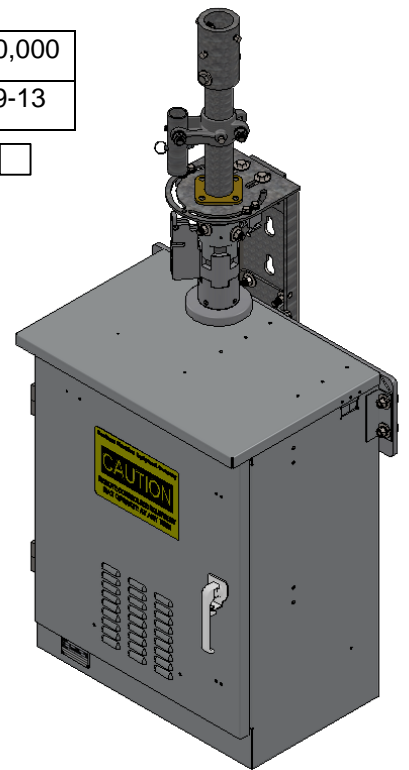
☐ Side Break

☐ Center Vee

☐ Double End Break

☐ Other: _____

2.3. Interrupting Device & Brand: _____





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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: _____

4.4. RTU's communication device:

Manufacturer: _____

Catalog Number: _____

Operating Voltage: _____ VDC

Current Draw (receive mode): _____ Amps

Current Draw (transit mode): _____ Amps

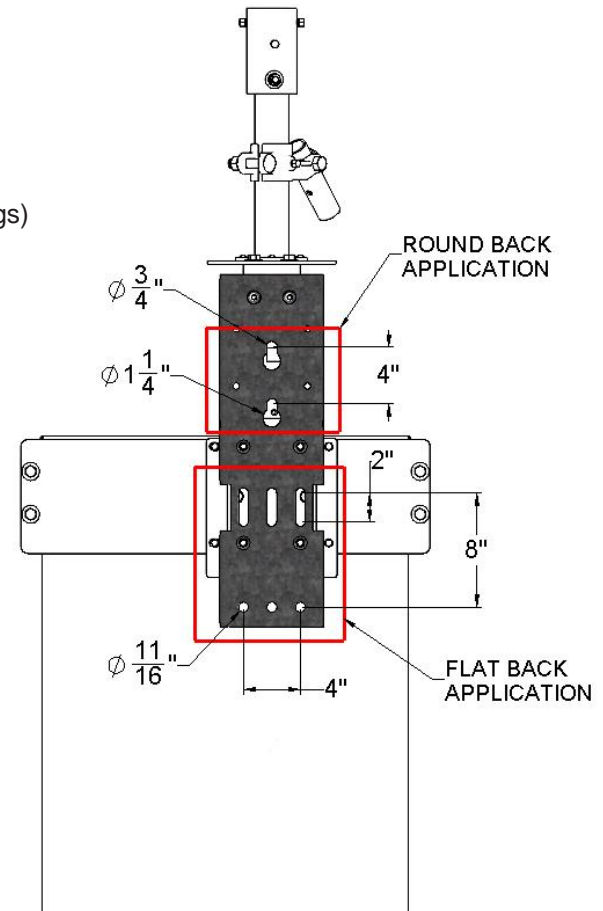
Transit/receive duty cycle: _____ %

4.5. RTU's mounting location:

- ☐ Inside Cabinet ☐ Outside Cabinet

4.6. RTU provided by SEECO:

- ☐ Yes ☐ No





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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. Not used

E. ☐ DC Breaker

F. Not used

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

O. Not used

P. ☐ Manual Hand Crank

Q. ☐ Universal Operating Counter

R. ☐ Stop Push Button

S. ☐ Universal Joint (2" IPS)

T. ☐ Two Speed Operation

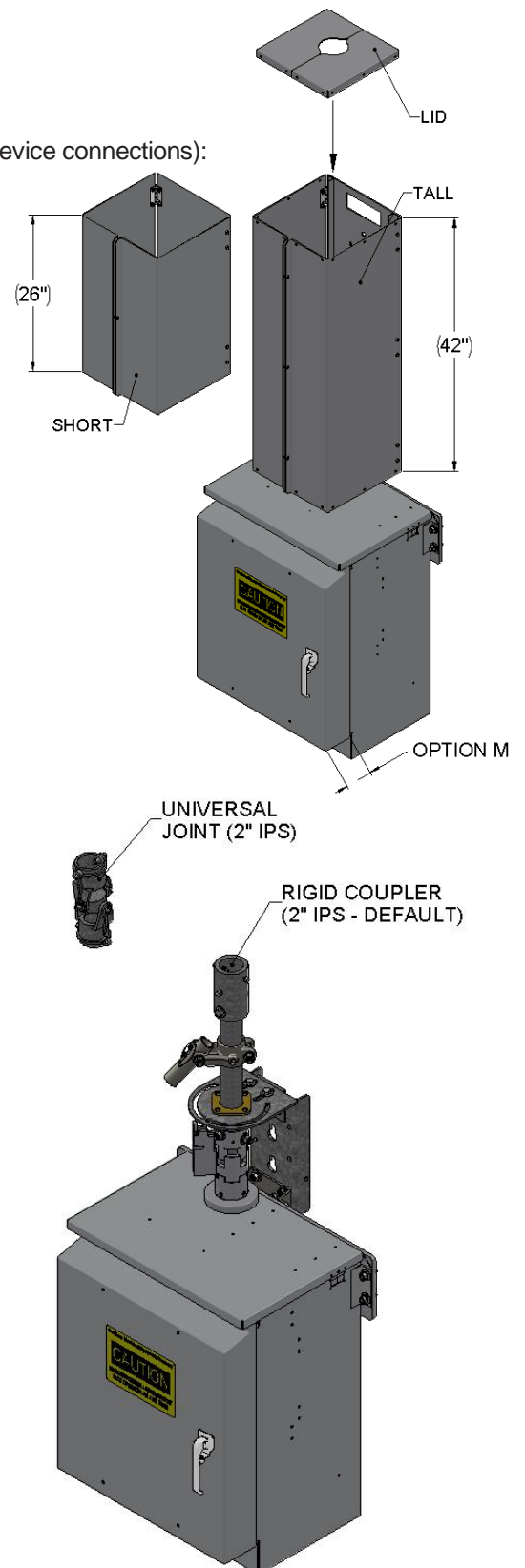
U. ☐ SEECO SENSE Mounting and Wiring

V. Not used

W. Not used

X. Not used

Y. ☐ Auxiliary Cabinet Assembly





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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).