



## VM-1 SE

Stored Energy  
Motor Operator

### The solution for automated line switching as well as for substations without DC batteries.

The VM-1SE is the stored energy version of Southern States maker leading VM-1 motor operator. Both the VM-1 and the VM-1SE share the same time-proven components, but the VM1-SE also includes a 120 VAC to 24 VDC or a 240 VAC to 24 VDC trickle charger, either of which supplies the input to the 24 VDC battery system contained in its own integral cabinet attached to the bottom of the main motor operator cabinet.

#### FEATURES

- Compatible with either 120 VAC or 240 VAC auxiliary source supply voltages
- Suitable for operating almost any type of switch from almost any manufacturer
- 20,000 in-lbs output torque units
- 3 stored open/close operations
- Ideally suited for use with Southern States type LLS-II equipped vertical break switches to perform automated remote transmission line switching of load currents, loop currents, and line charging currents.

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Motor Operator



| OUTPUT TORQUE                  | OPERATING TIME (Seconds) |
|--------------------------------|--------------------------|
| 10000 in – lb<br>20000 in – lb | 2 to 4                   |
|                                | 4 to 6                   |
|                                | 8 to 10                  |
|                                | 16 to 20                 |

| VOLTAGE |       |
|---------|-------|
| VDC     | VAC   |
| 24*     | 110   |
| 48      | 230   |
| 125     | 230   |
| 250**   | 480** |

\* Available in stored energy also

\*\* 3-phase

## ADDITIONAL KEY FEATURES

- Removable hinge doors
- Formed sheet aluminum enclosure with cast aluminum gear housing
- Open/Close/Stop push buttons
- Reversing contactors (motor controller)
- Thermostatically controlled heater
- Decoupler for vertical operating pipe
- Rugged and adjustable auxiliary switches
- Electric motor
- Thermal overload protection for the motor
- Fused pullouts for protection of motor/control circuit and heater circuit
- Mechanical disc brake
- Manual crank handle (insertion automatically disconnects the motor circuit)
- Screened, venting cabinet louver
- Power terminal block
- Galvanized steel manual swing handle for vertical operating pipe

Note: For additional and optional features please refer to VM-1 features list.