



Spectra RMS™ Circuit Breakers

Motor-operated Mechanism for Spectra RMS™ Breaker Type SG600

DESCRIPTION

A motor-operated mechanism is designed to open, close, and reset a circuit breaker by remote control.

In an operating installation, the customer must supply normally open ON and OFF push buttons, external wiring, a control power source, and control circuitry. Outline dimensions are shown in Fig. 3.

ELECTRICAL OPERATION

With the breaker and operating mechanism in the OFF position, press the ON button to energize the motor, closing the breaker. When the breaker handle reaches the ON position, the control circuit is disconnected by an internal limit switch.

When the OFF button is pressed, the motor is energized, opening the breaker. After the breaker handle reaches the OFF position, the limit switch de-energizes the control circuit.

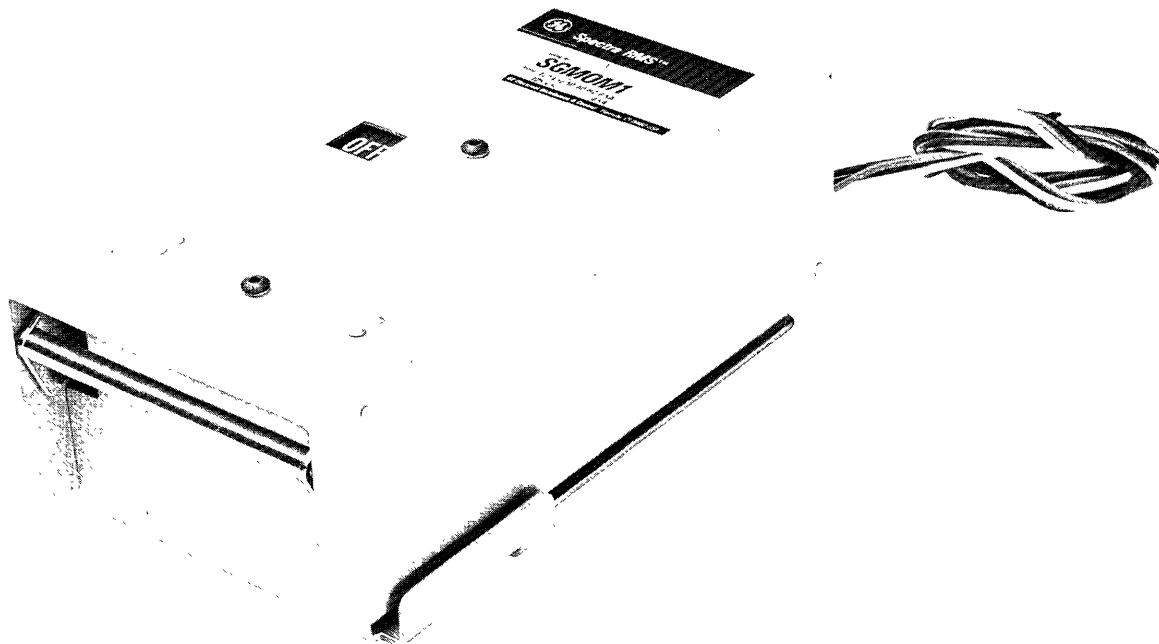
When the circuit breaker trips automatically, there is no external trip indication, unless a separate bell alarm accessory is provided to actuate a warning device. It is necessary to press the OFF button to reset the breaker.

AUTOMATIC RESET

For automatic reset, an auxiliary switch, which is available as an accessory, is used to return the breaker to the OFF/RESET position after it has tripped. The switch is mounted inside the breaker and wired in parallel with the OFF button. When the breaker trips, the switch closes, moving the breaker handle to the OFF/RESET POSITION. After the motor-operated mechanism has reset the breaker, the limit switch again opens the circuit. To use AUTOMATIC/RESET, the ON push button must be the single-pole, double-throw type and wired as in Figure 5. (The AUTO/RESET scheme applies to ac devices only and is not applicable for dc applications.)

MANUAL OPERATION

Lift the cover to disengage the handle and operate the breaker handle. See Figure 1. To return the breaker to electrical operation, align the breaker handle with the operating mechanism and close the cover. (See Electrical Operation.)



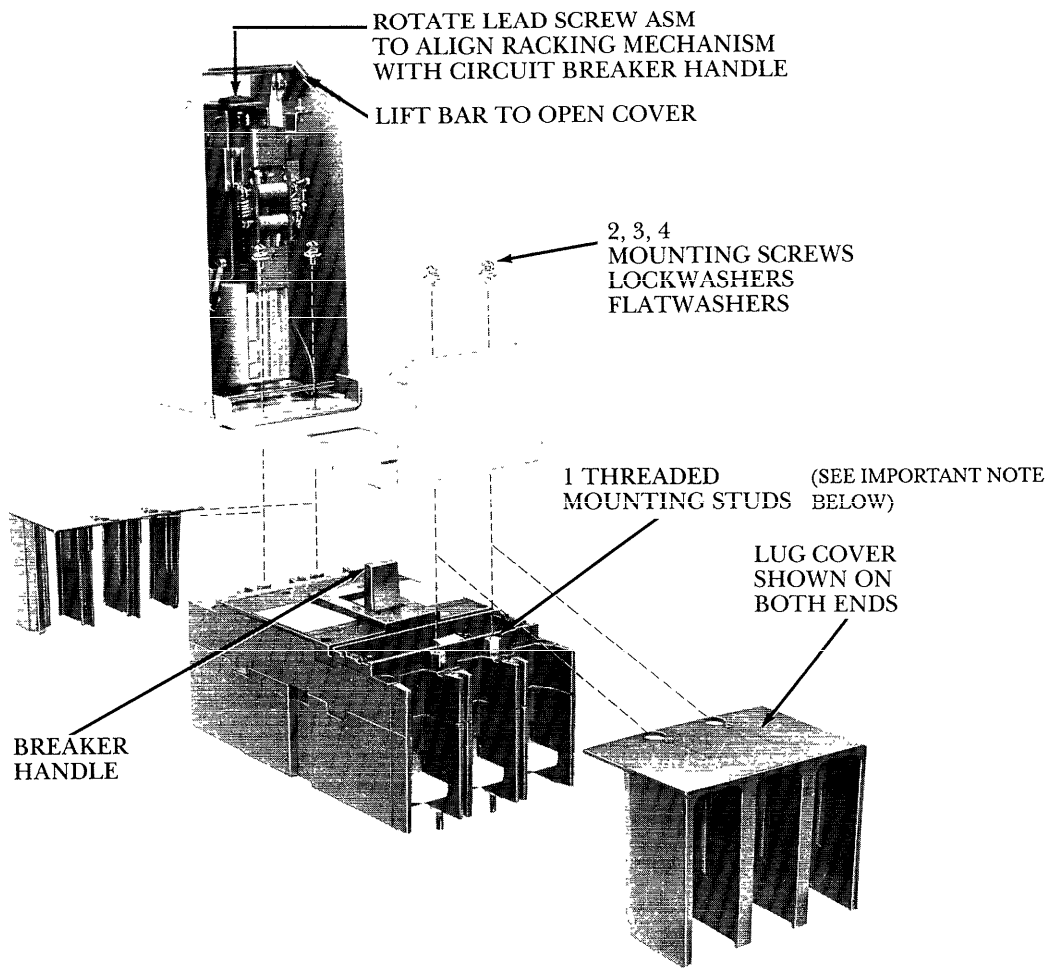


Figure 1.

INSTALLATION

WARNING: The Circuit Breaker should be deenergized before the motor operator is installed.

- *1. Mount circuit breaker using mounting studs (1).
- 2. Connect line and load circuit breaker terminals.
- 3. Install bus and/or lug cover(s). Refer to GEJ-3052 lug installation instructions.
- 4. Position motor-operated mechanism over the breaker escutcheon. See Figure 1.
- 5. Install motor-operating mechanism using screws (2), lockwashers (3), flat washers (4) supplied. See Figures 1 and 2.
- 6. Align racking mechanism and circuit breaker handle by rotating lead screw. Close cover. See Figure 1.

TABLE 1. HARDWARE DATA

Breaker Type	Remarks
SG	Replacement Kit SGMOMSK

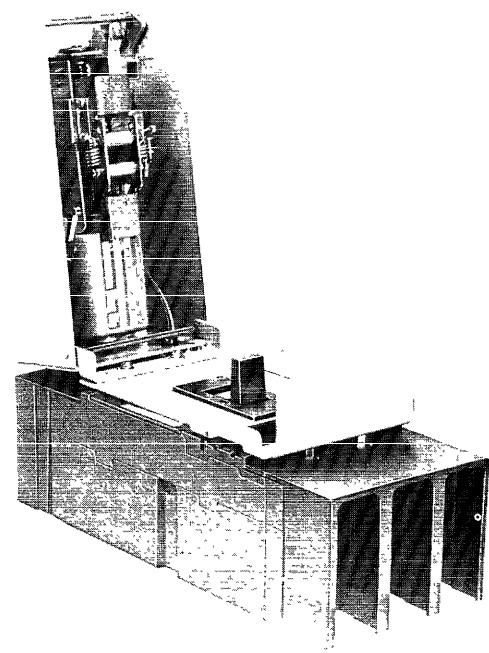
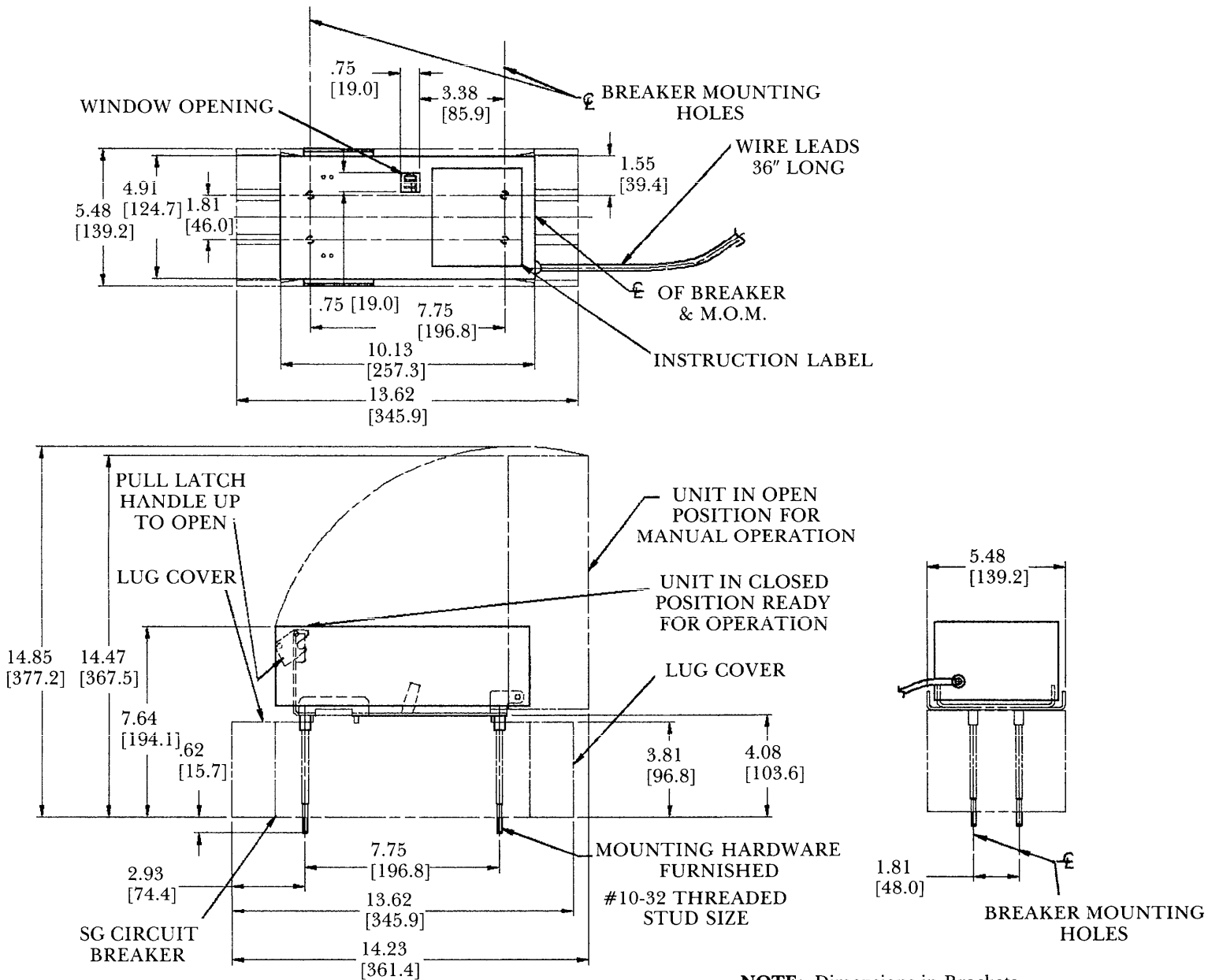


Figure 2. Installed Mounting Plate

* **IMPORTANT NOTE:** When using Plug-in Base with MOM, special mounting studs are required. Order Cat. No. SGMSKMOM.



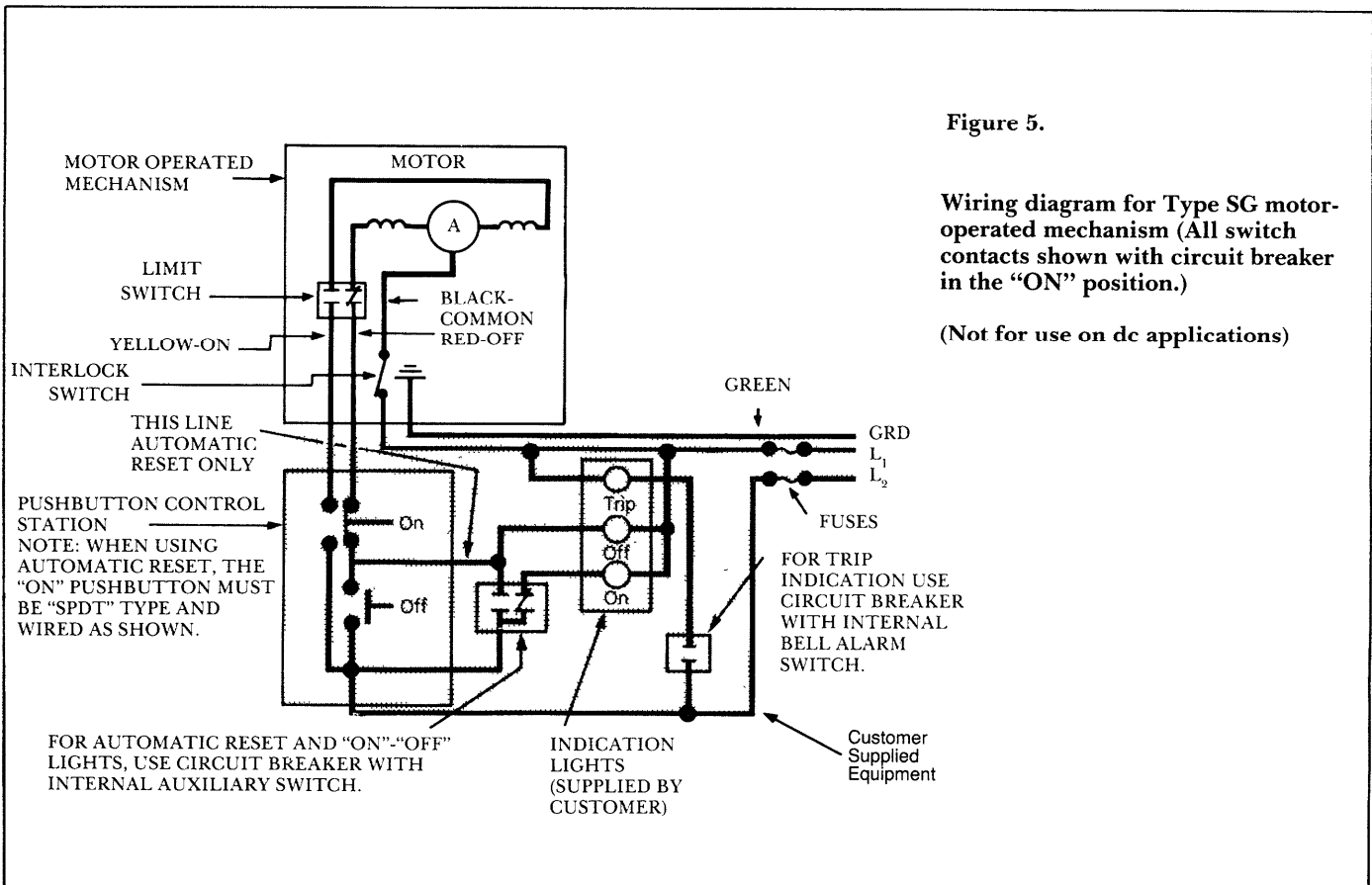
NOTE: Dimensions in Brackets [] are in millimeters.

Figure 3.

7. Electrically test per specified electrical data, Table 2. Refer to Figure 5 for schematic and auto/reset diagram.
8. Periodically, it may become necessary to re-tighten the conductors at the lugs. To do this, the motor-operating mechanism must be removed from the breaker. After all conductors have been re-tightened and lug cover(s) reinstalled, install the motor-operating mechanism in accordance with installation instructions.

TABLE 2. ELECTRICAL DATA

Catalog Number	Control			Timing (Sec)		Recommended Fuse
	Volts	In Rush (Amp)	Running (Amp)	Closing	Opening Reset	
SGMOM1	120 Vac	13.5	8.5	.25	.20	2 Amp (Time Delay)
	125 Vdc	13.5	4.5			
SGMOM2	240 Vac	6.5	3.0			
	250 Vdc	8.0	2.5			
SGMOM8	24 Vdc	33.0	19.5			
SGMOM9	48 Vdc	22.0	8.5			



These instructions do not purport to cover all details or variations in equipment nor to provide for every possible contingency to be met in connection with installation operation or maintenance. Should further information be desired or should particular problems arise which are not covered sufficiently for the purchaser's purposes, the matter should be referred to the GE Company.



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