



## Spectra RMS™ Circuit Breakers

### Motor-operated Mechanism for Spectra RMS™ Breaker Type SK1200

#### 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. 4.

#### 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.)

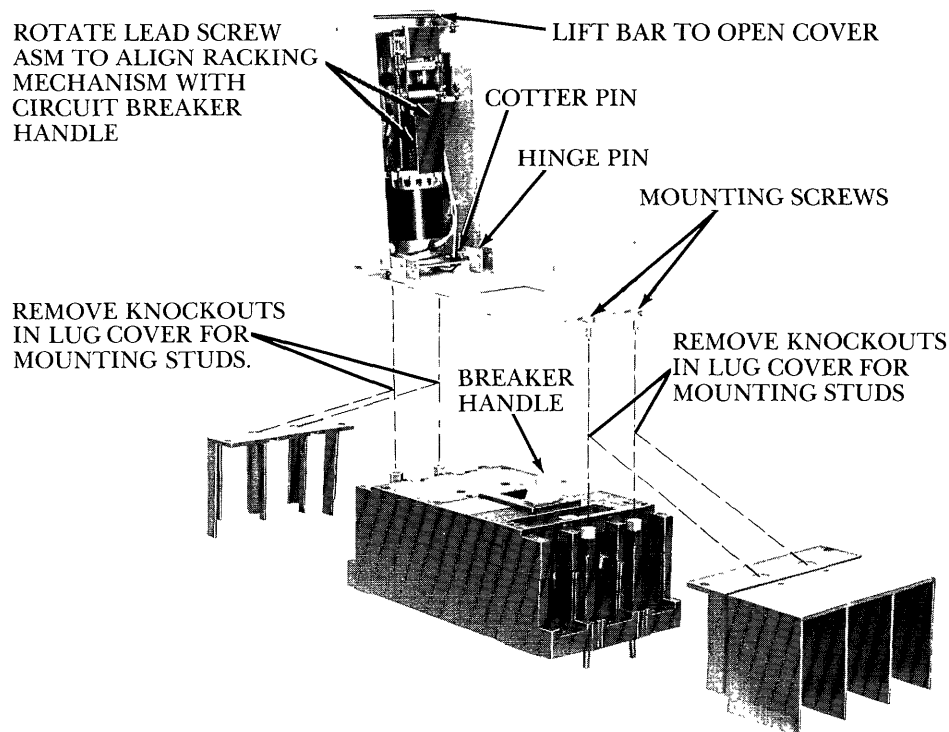
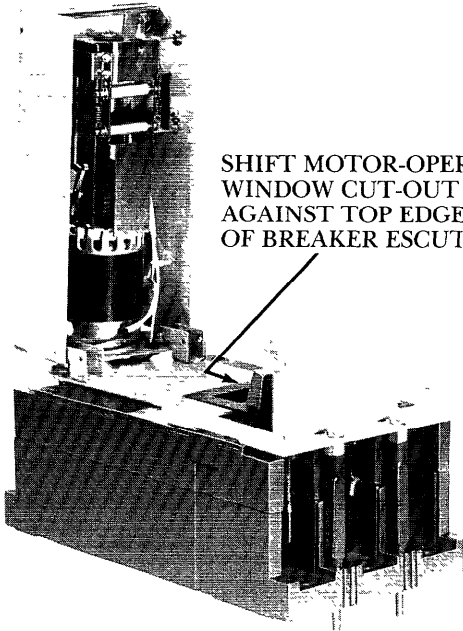


Figure 1.

## INSTALLATION

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



SHIFT MOTOR-OPERATED MECHANISM SO WINDOW CUT-OUT OF MOUNTING PAN IS AGAINST TOP EDGE OF BREAKER ESCUTCHEON.

Figure 2. Installed mounting plate.

1. Mount circuit breaker using hardware kits listed in Table 1.
2. Connect line and load circuit breaker terminals.
3. Remove knockouts in lug covers and assemble mechanism to circuit breaker. See Figure 1.
4. Position motor-operated mechanism over the breaker and slide the unit down so the window cut-out in the mounting pan rests on the top edge of the breaker escutcheon. See Figure 2.
5. Install motor-operating mechanism using bolts and washers supplied. See Figure 3.
6. Align racking mechanism and circuit breaker handle by rotating lead screw or by moving circuit breaker handle. Close cover. See Figure 1.

## HARDWARE ASSEMBLY DETAILS

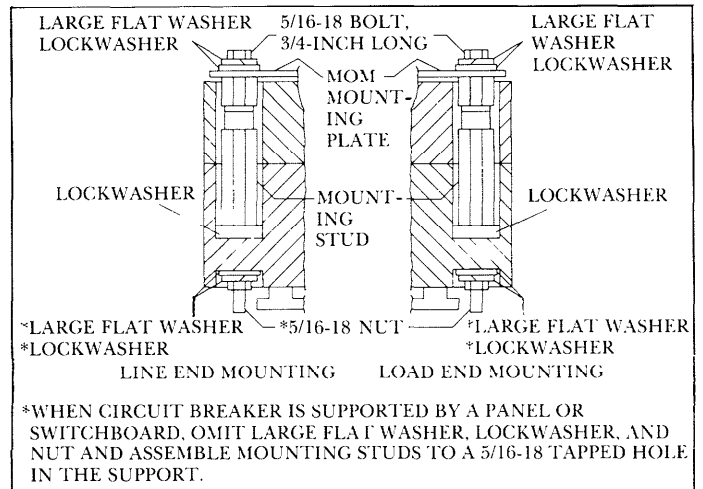


Figure 3. Mounting hardware installation.

## TABLE 1. HARDWARE DATA

Breaker Type	Reference Figure	Remarks
SK	3	These breaker types use studs and $\frac{5}{16}$ -18 bolts $\frac{3}{4}$ -inch long on line and load end of breaker. Hardware Kit: SKMOMSK-Replacement Kit * 343L518G3-Plug-in Base Hardware Kit

\* **NOTE:** Special mounting studs required when using Plug-in Base with MOM. Order Cat. No. 343L564G3.

# OUTLINE DIMENSIONS

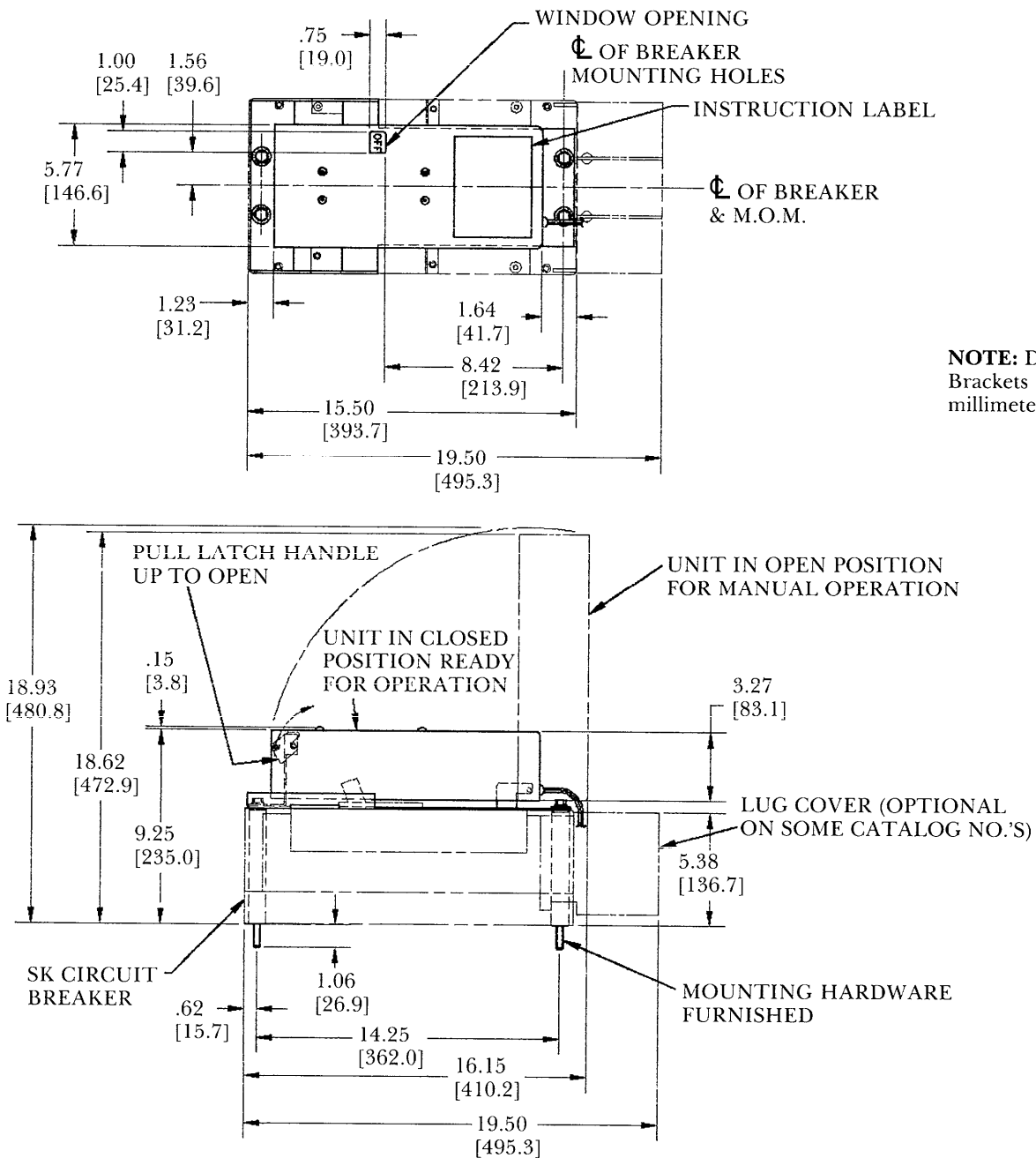
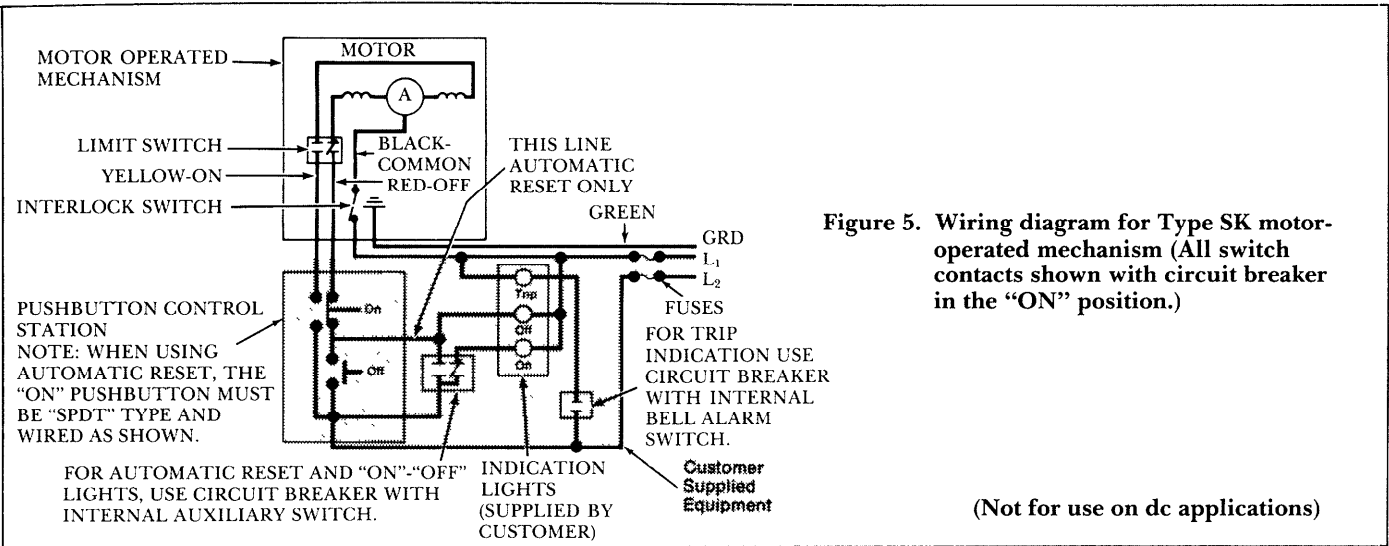


Figure 4.

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 and the mounting studs removed. The mounting studs should be removed one at a time and replaced after conductor re-tightening is completed to maintain secure breaker mounting. After all conductors have been re-tightened, 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	
SKMOM1	120 Vac	14.0	7.5	.30	.20	3 Amp (Time Delay)
	125 Vdc	18.0	5.0			
SKMOM2	240 Vac	7.0	3.5			
	250 Vdc	8.5	2.5			
SKMOM8	24 Vdc	50.0	30.0			
SKMOM9	48 Vdc	32.5	15.0			



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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