



Spectra RMS™ Molded Case Circuit Breakers

Mounting of Door Ring Interlock Catch Kit Catalog No. SGRDRCK

WARNING: Danger of electrical shock or injury. Turn **OFF** power ahead of the device before lug installation or modification. Do Not remove circuit protective devices until the power is turned **OFF**.

DESCRIPTION

This accessory is for use with SG frame TDR integral handle mechanisms, Cat. Nos., SGR1 and SGR1H. The purpose of the catch kit is to prevent an enclosure door from being opened while a circuit breaker is ON. There is an interlock defeat screw located on the round indicator plate of the interlock mechanism.

STEP 1. CIRCUIT BREAKER/HANDLE MECHANISM MOUNTING

A. Locate the breaker within the enclosure.

The horizontal distance from the breaker centerline to the hinge centerline has a minimum distance A, illustrated in Figure 2. Distance A must be equal to or greater than one-half the width of the enclosure door from the hinge side. Preferably, the door hole should be located toward the latch side for better interlock leverage.

B. Dimensions for the SG Frame Circuit Breaker and Integral Handle are found in Figure 1.

STEP 2. SECURE INTEGRAL HANDLE TO DEVICE

Mount integral handle mechanism to circuit breaker after the breaker is secured to the enclosure mounting plate.

STEP 3. SECURE DOOR RING—INTERLOCK CATCH KIT

Each kit consists of an exterior ring, interior ring, interlock catch, and mounting hardware

The interlock catch for the circuit breaker's interior ring is a separate item that must be secured to the ring by means of the furnished screw. Refer to Figure 3 for the correct positioning.

A. Locate the center of a circle for the integral handle indication ring on the enclosure door, referring to Figure 2 and the following steps:

1. Obtain distances A and B

A: the horizontal distance from the centerline of the indication ring to the hinge centerline of the enclosure

B: the vertical distance from the centerline of the indication ring to the top of the enclosure.

2. Assuming the mounting surface of the enclosure and the closed door to be parallel, transcribe dimensions A and B to the enclosure door per Figure 2.

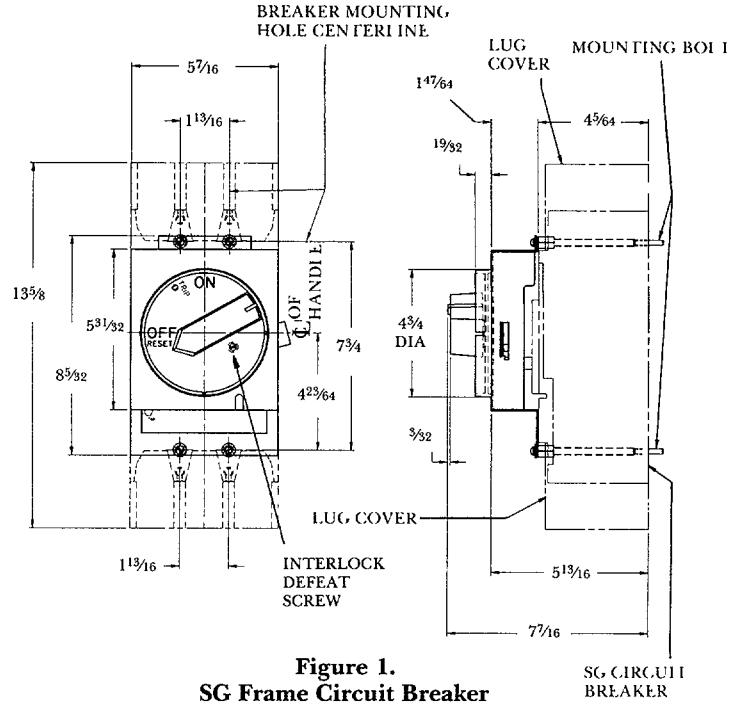


Figure 1.
SG Frame Circuit Breaker
with Integral Handle Mechanism

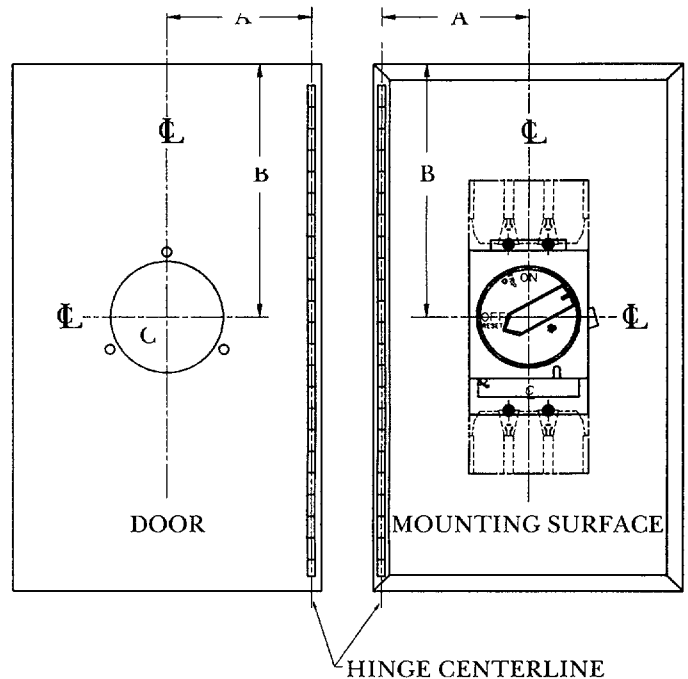


Figure 2.

- A. Using point C as your center, scribe a circle, diameter is $5\frac{5}{16}$ "
- B. Cut out the circle in the enclosure door.
- C. Drill three $\frac{7}{16}$ " diameter holes in the enclosure door per Figure 3.
- D. Loosely secure each ring to the door with pan head screws.

Exterior ring—flanged side against door, small notch to the right of the hole's horizontal centerline.

Interior ring—secure per Figure 3.

- E. Adjust for proper alignment of indication plate and hole in the door.
 - 1. Adjust catch height per Figure 3
 - 2. Turn integral handle to OFF position.
 - 3. Close enclosure door.
 - 4. Adjust external ring on the door so it is concentric with handle ring.

- 5. Small notch at right hand side of exterior ring must be immediately adjacent to the right of the hole's horizontal centerline.

NOTE:

For Vertical Mounting, see Figure 3.

For Horizontal Mounting, rotate the door drilling and interior door ring 90° counterclockwise.

- 6. Tighten pan head screws.
- F. Adjust sliding interlock catch for circuit breaker per Figure 3, and tighten with furnished screw.
- G. Check operation of interlocking features.
 - 1. Close enclosure door. Turn handle to ON. Door should not be able to open with handle in ON position. To open door, turn defeater screw (see Figure 1) located in indicator plate counterclockwise, or turn handle to OFF position.

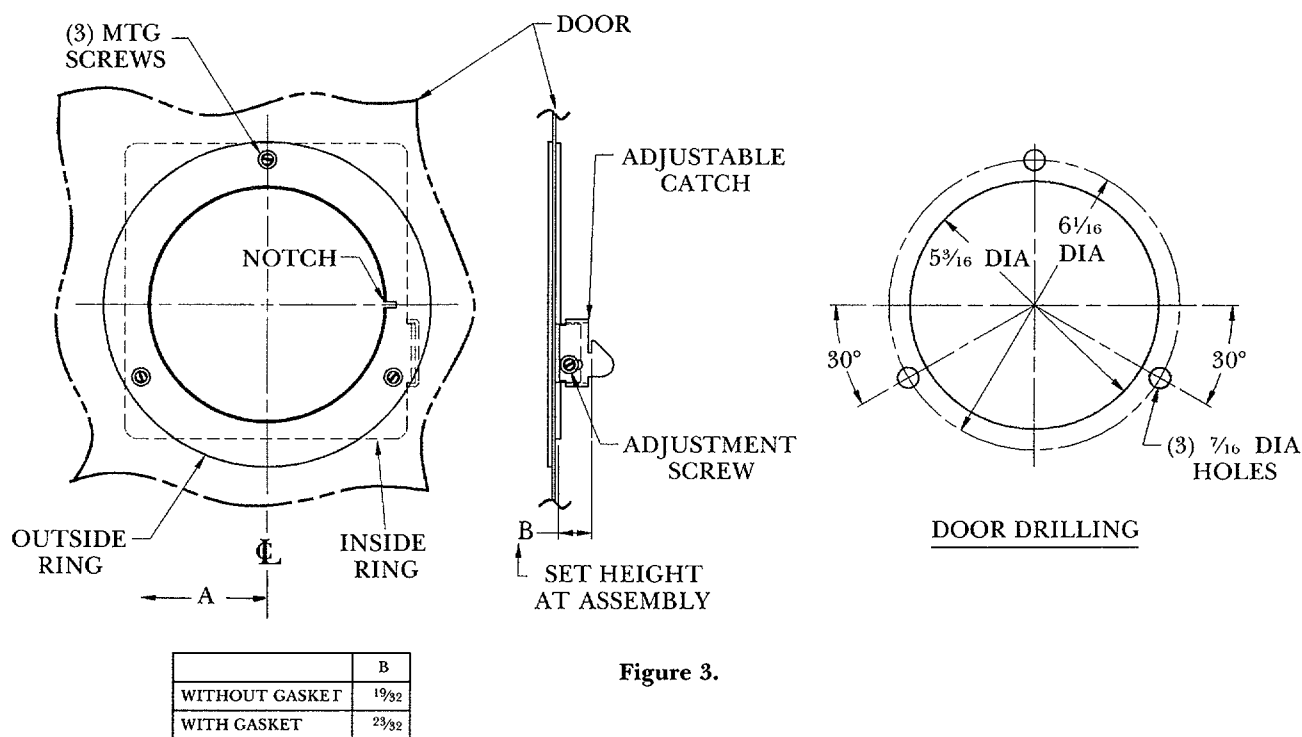


Figure 3.

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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