Installation Instructions for the Sliding Bar Interlock for 2- and 3-Pole L-Frame Series C Circuit Breakers and Molded Case Switches

WARNING

DO NOT ATTEMPT TO INSTALL OR PERFORM MAINTENANCE ON EQUIPMENT WHILE IT IS ENERGIZED. DEATH, SEVERE PERSONAL INJURY, OR SUBSTANTIAL PROPERTY DAMAGE CAN RESULT FROM CONTACT WITH ENERGIZED EQUIPMENT. ALWAYS VERIFY THAT NO VOLTAGE IS PRESENT BEFORE PROCEEDING WITH THE TASK, AND ALWAYS FOLLOW GENERALLY ACCEPTED SAFETY PROCEDURES.

CUTLER-HAMMER IS NOT LIABLE FOR THE MISAPPLICATION OR MISINSTALLATION OF ITS PRODUCTS.

The user is cautioned to observe all recommendations, warnings, and cautions relating to the safety of personnel and equipment, as well as, all general and local health and safety laws, codes, and procedures.

The recommendations and information contained herein are based on Cutler-Hammer experience and judgement, but should not be considered to be all-inclusive or covering every application or circumstance which may arise. If any questions arise, contact Cutler-Hammer for further information or instructions.

1. INTRODUCTION

General Information

The sliding bar interlock (Fig. 1-1) provides mechanical interlocking between two adjacent circuit breakers of the same pole configuration, preventing both circuit breakers from being switched to the ON position at the same time. The sliding bar interlock is secured to the outside of the enclosure cover between the circuit breakers. When the sliding bar interlock handle is moved from one side to the other, a bar extends to alternately block movement of the circuit breaker handles and prevents both circuit breakers being switched on at the same time. The sliding bar interlock is for field installation only. For this publication, the term circuit breaker shall also include molded case switch.

This instruction leaflet (IL) gives detailed procedures for installing the sliding bar interlock.

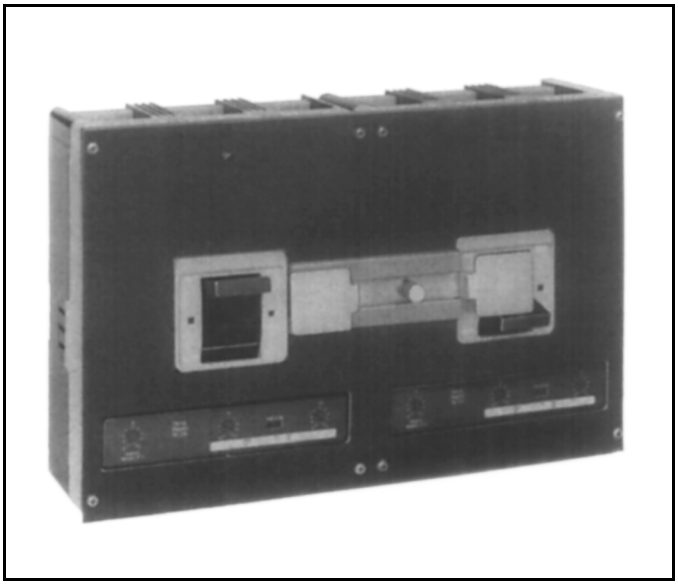

Fig. 1-1 Sliding Bar Interlock Installed Between Two L-Frame Series C Circuit Breakers

Sliding Bar Interlock Catlog Number
L-frame - SBK4

2. INSTALLATION

The sliding bar interlock can be used between two 2- or 3-Pole L-frame circuit breakers or molded case switches. The mounting panel must be drilled to correspond with the interlock spacing requirements. To install the sliding bar interlock, perform the following steps:

WARNING

BEFORE ATTEMPTING ANY WORK ON CIRCUIT BREAKERS INSTALLED IN AN ELECTRICAL SYSTEM, MAKE SURE THE CIRCUIT BREAKERS ARE SWITCHED TO THE *OFF* POSITION AND THAT THERE IS NO VOLTAGE PRESENT WHERE WORK IS TO BE PERFORMED. SPECIAL ATTENTION SHOULD BE PAID TO REVERSE FEED APPLICATIONS TO ENSURE NO VOLTAGE IS PRESENT. THE VOLTAGES IN ENERGIZED EQUIPMENT CAN CAUSE SEVERE PERSONAL INJURY OR DEATH.

2-1. Refer to drilling plan (Fig. 2-1), and drill and tap circuit breaker mounting panel.

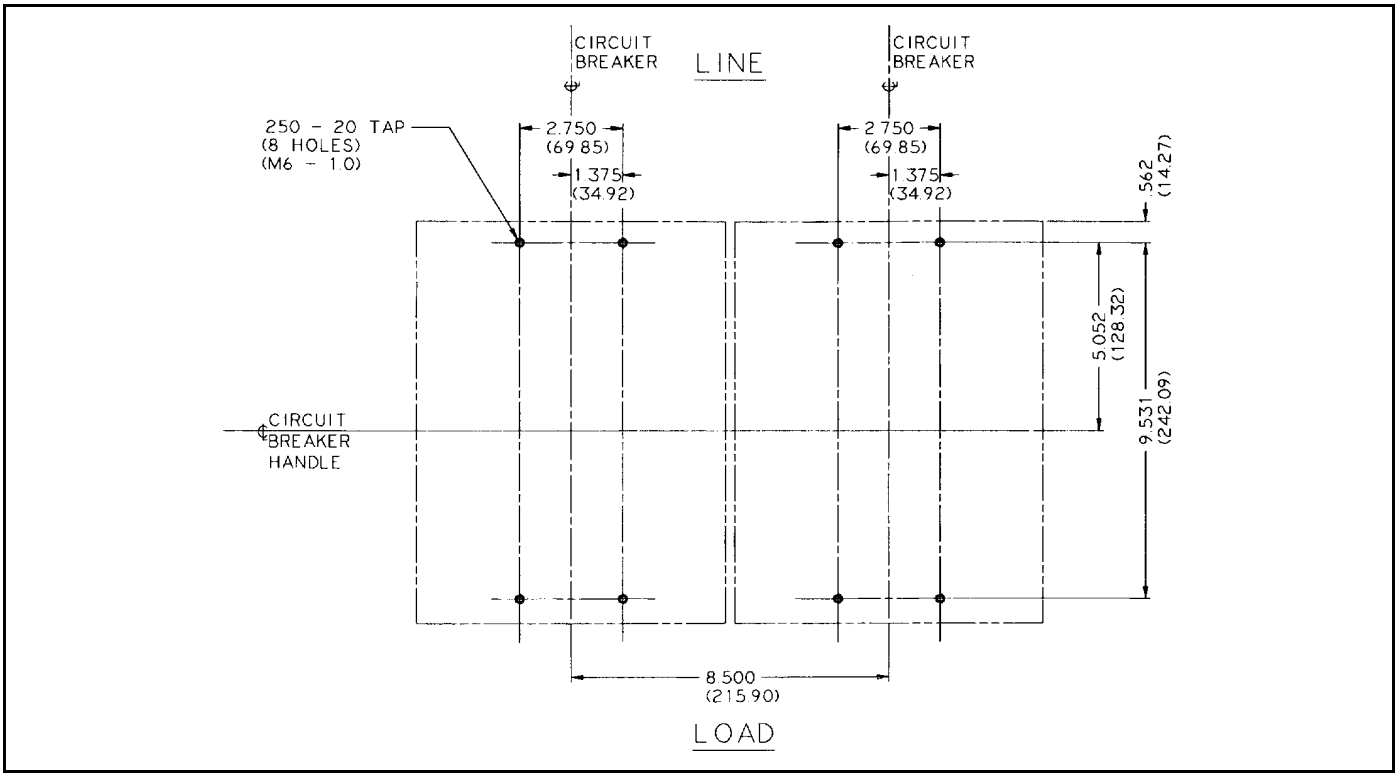

Fig. 2-1 L-Frame 2- and 3-Pole Circuit Breaker Mounting Bolt Drilling Plan

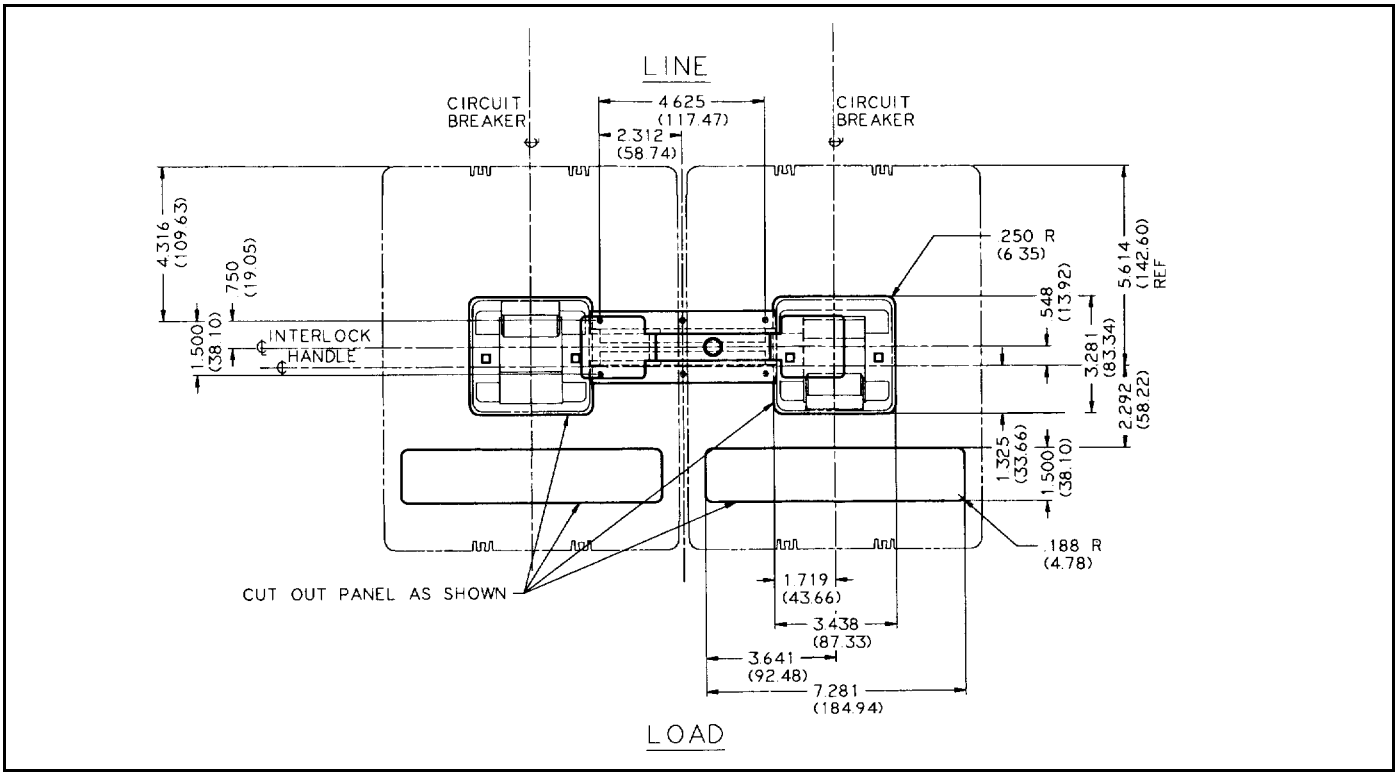

Fig. 2-2 L-Frame Sliding Bar Interlock Installation Details

Note: Circuit breakers are secured to mounting panel by hardware supplied with circuit breaker.

2-2. Mount both circuit breakers to mounting panel.

2-3. Refer to Fig. 2-2 and cut out enclosure cover to circuit breaker and trip unit escutcheon.

2-4. Referring to Fig. 2-2, drill and countersink 6 interlock mounting holes in the back of the enclosure front panel.

2-5. Mount the components of the interlock in the following manner (Fig. 2-3):

a. Insert three 190-32 inch flat head, countersunk screws through bottom set of interlock mounting holes in the enclosure front panel.

b. Position the interlock spring with the flat side located over the three countersunk screws.

c. Position the slider and knob assembly onto the interlock rail.

d. Hold the slider and knob assembly and interlock rail against the interlock spring. Thread the three screws into the interlock rail but do not tighten.

e. Insert three 190-32 inch flat head countersunk screws through top set of interlock mounting holes in the enclosure front panel.

f. Position the interlock spring with the flat side located over the three countersunk screws and the angled side under the slider and knob assembly.

g. Position the remaining interlock rail over the slider and knob assembly, and thread the three remaining flat head countersunk screws into the interlock rail. Tighten all six screws into the interlock rails.

2-6. Carry out functional check. Make sure that both circuit breakers cannot be switched to the ON position at the same time; also, confirm that each circuit breaker can be closed when the other is open.

2-7. Connect circuit breakers as required.

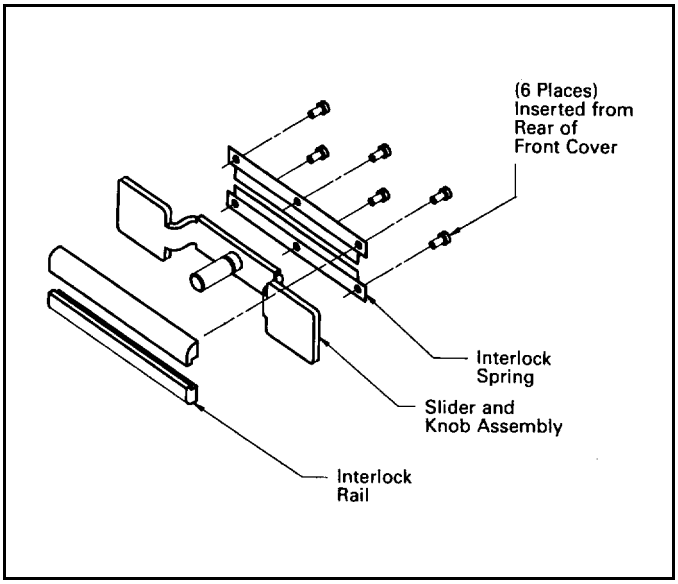

Fig. 2-3 Assembly Sequence of Sliding Bar Interlock Components

Cutler-Hammer

Moon Township, Pennsylvania 15108

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