

Instruction Sheet

March, 2013



Circuit Breaker / Disconnect Operator

The linear motion operator mechanism mounts directly to the face of the circuit disconnecting device and the plastic handle extends through the unit door to allow the device to be safely operated. The operator is provided with three mechanical safety interlocks to perform the following functions:

1. Operator – Unit Interlock:

The operator-to-drawout unit interlock prevents withdrawal or insertion of the control unit with the handle in the “ON” position. When the handle is in the “ON” position, the operator driver (Item 1) extends into a slot in the upper pan brace assembly. This prevents movement of the pan latches, locking the unit so that it may neither be inserted or withdrawn. When the handle is in the “OFF” position, the latches are free to move, thus allowing easy withdrawal and insertion of the drawout unit.

2. Padlocking:

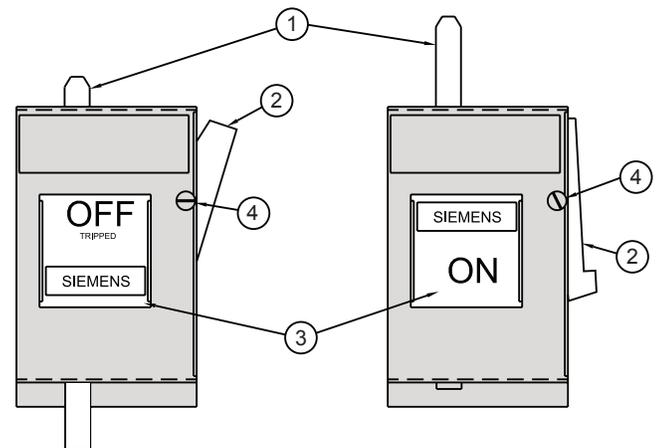
The handle may be locked in the “OFF” position by pushing the padlock insert nested in the plastic handle to the right. This exposes a slot in the insert which will accept up to three padlocks. With the padlocks installed, the handle is prevented from moving to the “ON” position by the interference of the padlock insert with the tab on the operator housing.

3. Door-Operator Interlock:

The door-to-operator interlock prohibits closing or opening the control unit door except when the handle is in the “OFF” position. When the handle moves to the “ON” position, the interlock lever (Item 2) is held behind the door mounted “J” shaped bracket thus preventing opening of the control unit door.

A provision is made for Qualified Persons to defeat the door-operator interlock when the handle is in the “ON” position. This is accomplished by turning the defeater screw (Item 4) counterclockwise approximately 1/8 turn until the door is released. To reclose the door, gently hold the door closed while turning the defeater screw counterclockwise until the door is felt to close against the structure frame. Release the defeater screw and secure the quarter turn door fasteners.

This safety interlock also serves to prevent inadvertent closing of the protective device when the door is open. Authorized personnel may defeat the interlock (Item 2) in this situation by pushing and holding the exposed upper portion of the interlock arm to the left. This releases the interlock so that the protective device may be turned “ON”.



Adjustment Notes

No field adjustment to the door interlock mechanism should be necessary under normal operating conditions. However, should adjustment become necessary as a result of mechanical damage or wear, the following procedure is recommended.

1. If the handle fails to turn “ON” or if excessive operating resistance is experienced, turn the handle “OFF”. Withdraw the unit and inspect for misalignment of the operator extension(s) or the driver (Item 1) and the slot(s) in the upper brace. Make necessary adjustments to correct any misalignment.
2. With the unit reinstalled, close and secure the door. Turn the handle “ON”. If operating difficulty persists and the handle fails to turn “ON”, open the unit door and inspect the door mounted portion of the interlock assembly for damage or distortion. Inspect the interlock lever (Item 2) for damage, freedom of movement, and its ability to rest firmly against the boss on the plastic handle without assistance.
3. If operating difficulty persists, unlatch the quarter turn fasteners and open the door, then slowly close it observing the point of contact between the interlock lever (Item 2) and the door mounted portion of the interlock. The ramp on the “J” shaped bracket mounted on the door should first engage the movable interlock lever at a point approximately 1/16” below the top right corner of the interlock lever. If the point of engagement does not occur at this point, gently bend the pointed extension of the door mounted portion up or down slightly to the proper position. Before making this adjustment, make sure the plastic handle is centered in the door cut-out when the door is closed.

IMPORTANT

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