

Russellstoll®

Instruction Sheet for Heavy Service Ever-Lok® Interlock

APPLICATION

When your application calls for the utmost in safety and reliability, Russellstoll® devices provide the state of the art in plug and receptacle design.

FEATURES and BENEFITS

Mechanically interlocked between the receptacle and the switch. Designed so that when the plug is fully inserted the switch interlock is automatically released, permitting the switch to be turned on. The plug cannot be removed from the receptacle until the switch is manually turned off.

- Switch: 60 AMP, 480VAC, 3 pole "quick make" and "quick break".
- Housings: Heavy cast aluminum corrosion-resistant copper-free alloy with gray electrostatic epoxy powder coat finish. Furnished with oil-resistant gaskets.
- Handle lock-out feature.
- Circuit breaker interlocked version available in standard and high AIC models.
- One-handed insertion or removal: unique auto-locking collar engages upon insertion, 1/8 counter-clockwise turn disengages for removal.

Simple and rugged full interlock safety. Plug cannot be inserted or withdrawn while power is on.

Fits in standard 8" I-beam web or wall mounting.

PREPARATION

- 1) Recommended Tools:

| | |
|---------------|----------------|
| Cable Cutters | Wire Strippers |
| Pipe Wrenches | Torque Wrench |
| Screw Drivers | Allen Wrenches |
| Ohmmeter | |
- 2) Select allowable cable type and size for ampere rating in accordance with NEC and in compliance with that shown on the circuit breaker or switch.
- 3) Establish a wiring pattern so the same colored wire is put in the same numbered contact on all plugs and interlocks in system. Heavy Service Ever-Lok® devices are polarized so the plug will enter the interlock only one way.
- 4) Turn power off.
- 5) Remove six screws, cover and cover gasket from box.
Note: make sure gasket is not damaged while removing.
- 6) Securely mount interlock box and install service supply.
- 7) Loosen pressure screws in terminals of circuit breaker and ground lug. Insert stripped end of each conductor in proper terminal. Tighten pressure screws to torque values shown on circuit breaker. Tighten ground pressure screw to 45 lb-in.
- 8) Make sure handle on cover and handle on the circuit breaker are in the off position.
- 9) Put cover gasket and cover in place on box and tighten six screws securely.



WARNING

If any part of the interlock appears to be missing or damaged. **DISCONTINUE USE IMMEDIATELY.** Replace with factory replacement parts only before continuing use.

ELECTRICAL TESTING

Do not connect to power until the following electrical tests have been performed.

- 1) Make continuity checks of wiring with Ohmmeter to verify correct phasing and grounding connections.
- 2) Check insulation resistance to be sure system does not have any short circuits or unwanted grounds.

Connect all devices in the system, turn the power on and test the system.

PAINTING

Since the ground circuit may include the external and interior surfaces of the interlocks, these must not be painted beyond factory applied finishes.

OPERATION

To Operate Switch

- 1) Insert plug.
- 2) Turn handle to ON position for power.
- 3) Turn handle to OFF position to turn off power.

To Remove Plug

- 1) Turn handle to OFF position.
- 2) Turn plug counter-clockwise.
- 3) Remove plug.

For Tripped Breaker Handle In Trip Position

- 1) Turn handle past OFF position to reset breaker.
- 2) Turn handle to ON position for power.

MAINTENANCE

Inspection of electrical equipment used in industrial and heavy use situations must be conducted regularly to ensure proper function and safety.

Check for the following during inspection:

- 1) Unsecured contact wire terminals.
- 2) Cracked or broken housings.
- 3) An unfastened or loose ground conductor.
- 4) Deteriorated or misplaced gaskets.
- 5) Loose or missing screws.
- 6) For frayed or broken insulation on wires.
- 7) Inspect O-Rings for damage and lubricate with a nonconductive silicone-based lubricant as required.

Maintenance Manager: Please record the following information for your records.

COMPLETE CATALOG NO.
(As shown on device label)

DATE OF INSTALLATION

WARRANTY: Thomas & Betts sells this product with the understanding that the user will perform all necessary tests to determine the suitability of this product for the user's intended application. Thomas & Betts warrants that this product will be free from defects in materials and workmanship for a period of two (2) years following the date of purchase. Upon prompt notification of any warranted defect, Thomas & Betts will, at its option, repair or replace the defective product or refund the purchase price. Proof of purchase is required. Misuse or unauthorized modification of the product voids all warranties.

Limitations and Exclusions: **THE ABOVE WARRANTY IS THE SOLE WARRANTY CONCERNING THIS PRODUCT, AND IS IN LIEU OF ALL OTHER WARRANTIES EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE SPECIFICALLY DISCLAIMED. LIABILITY FOR BREACH OF THE ABOVE WARRANTY IS LIMITED TO COST OF REPAIR OR REPLACEMENT OF THE PRODUCT, AND UNDER NO CIRCUMSTANCES WILL THOMAS & BETTS BE LIABLE FOR ANY INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES.**

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