Instructions for Type L-60 Electrical Interlock for Size 3, 4 Life-Line Starters and Types NR, NRD, NRL Contactors



I.L. 10708-D



Fig. 1 Component parts of Type L-60, Electrical Interlock Kits.

1-Contact Unit 2-Screws 3-Conical Adjustment Screw 4-Leads 5-Washers 6-Nuts 7-Bolt 8-Terminal 9-Clamps 10-Conical Adjusting Screw 11-Washer 12-Lock Washers 13-Nuts 14-Washers 15-Screws 16-Operating Arm Screws 17-Operating Arm 18-Contact Assembly 19-Molded Support

Description

Westinghouse Type L-60 Electrical Interlock is an auxiliary contacting device applicable to the sizes 3 and 4 Life-Linestarters and Types NR, NRD and NRL Contactors. The Interlock will carry and rupture non-inductive alternating currents of 5 amperes at 600 volts, or direct currents up to 1 ampere at a maximum of 50 voltamperes.

The type L-60 Interlock is available in two assemblies:

Style No. 1490456 - Interlock complete with hardware, operating arm and support for installing in the left or right hand "outboard" position. Order this style for the "third" or "fourth" interlock to be mounted on the contactor. (Figs. 1, 2 & 3) Style No. 1490460 - Interlock complete with all hardware for mounting in the left hand or right hand "inboard" position. This style should be ordered for the "first" or "second" interlock to be mounted on a contactor. (Figs. 1, 2 & 3)

Installation - INBOARD Interlocks ("First" and "Second")

Before installing the interlock, be sure that the parts are set to produce the desired contacting action. If conversion is necessary, follow instruction in Fig. 4. To convert a normally-closed interlock to a normally-open interlock, reverse the procedure in Fig. 4.

1. Install assembled contact unit (1) on the contactor base and secure it with screws (2) and two nuts (6). See Figs. 1, 2. Arc box and moving cross bar of contactor may be

Effective January, 1964 Supersedes I.L. 10708-C, dated December, 1959

Page 2

temporarily removed to facilitate this operation by taking out the four screws (A). (Fig. 2)

2. Mount conical adjusting screw (3) on projecting arm of the contactor crossbar with one flat washer and one lock washer (5) and two nuts (6). Flat washer to bear against molded material.

3. If the interlock is a normally-open device, adjust conical screw (3) to produce 1/8 inch overtravel of the slide bar after the contacts meet. If the interlock is a

normally-closed device, adjust to produce 3/16 inch separation of the contacts. Lock the conical screw securely. Do not extend the conical screw for extra travel as it will interfere with the contact unit and cause the contactor to become noisy and will also prevent the magnet of the contactor from seating.

4. Fasten parts (9) to part (8) (Fig. 1) and install with bolt (7) in position shown in Fig. 2.

5. Connect lead (4) between point B on starter and point C on interlock. See Fig. 2.



Installation - OUTBOARD Interlocks ("Third" and "Fourth")

1. Check contact action of interlock as outlined in Installation-Inboard Interlock (above).

2. Remove nuts (6) from inboard interlock mounting screws (2) and in their place locate the molded support (19) and secure it and the inboard interlock by tightening screws (2). See Figs. 1 and 2. Save nuts (6) for later use.

3. Mount the outboard interlock contact assembly (18) on the support (19) and secure it by screws (15) and two nuts (6) previously removed from inboard interlock. See Fig. 3.

4. Fasten the operating arm (17) on the moving crossbar of the contactor with screws (16) and two nuts (13), two washers (12) and two washers (14). Make sure flat washer bears against molded surface of arm (17). Install the conical adjusting screw

(10) with two nuts (13) and washer (11) and (12), with wide flat washer bearing against molded material.

5. Adjust the conical screw as outlined in step 3. Installation-Inboard Interlock (above).

Conversion

Type L-60 Interlocks can easily be converted from a normally-open to a normallyclosed device, or vice versa, without adding or removing any parts. See Fig. 4.

Maintenance

Keep all moving parts free from dirt or hindrance to their movement.

The silver contacts will not need dressing throughout their normal life.

Replace entire interlock if parts become severely worn.



Page 4

Westinghouse Compact Combination Life-Line Starters

For additional positive motor protection and control . . .







COMBINATION - single speed - non-reversing - combines starter and disconnect device in single enclosure - three basic designs; non-fusible disconnect, fusible disconnect and AB DE-ION circuit breaker.

RAIN-TIGHT COMBINATION - single speed - non-reversing - for outdoor use under any climatic condition - two basic designs; fusible disconnect and AB DE-ION circuit breaker.

SAFETY COMBINATION - single speed non-reversing - provides maximum safety to personnel - prevents unauthorized tampering - three basic designs; non-fusible disconnect, fusible disconnect and AB DE-ION Saf-T-Vue circuit breaker.

Westinghouse Disconnect Devices

DE-ION CIRCUIT BREAKER - operates on thermal-magnetic principle, a delayed action tripping on sustained overloads when the wire temperatures are within the safe limit--instant action on short circuits.

NON-FUSIBLE VISI-FLEX DISCONNECT used to isolate motor from power supply, is the smallest loadbreaker device in the field. It features AB breaker type construction assuring long life and dependability.

FUSIBLE VISI-FLEX DISCONNECT - is designed to be used on Class 11-204 starters and can be converted to non-fusible by easily removing the fuse clips and adding a no-fuse kit.

Westinghouse Electric Corporation

Standard Control Division, Beaver, Pa.





