



TYPE GCD SIZE 5 AC CONTACTOR

FRONT CONNECTED

DESCRIPTION



INSTALLATION

This industrial type control is designed to be installed, operated, and maintained by adequately trained workmen. These instructions do not cover all details, variations, or combinations of the equipment, its storage, delivery, installation, check-out, safe operation, or maintenance. Care must be exercised to comply with local, state, and national regulations, as well as safety practices, for this class of equipment.

The Type GCD Size 5 AC Contactor is supplied ready to be installed per the detailed instructions contained in I.L. 15-825-14A.

Before power is applied, the following must be correct for proper contactor operation:

- Identification of resistor, rectifier and operating--correct watts, ohms, voltage and style number per Fig. 4.
- Connection of control relay "CR", resistor, rectifier, and operating coil per Fig. 5.
- Type L-64 shorting interlock contact gap. For required gap see Fig. 6; for adjustment procedure see Maintenance instructions.

MAINTENANCE

The following maintenance instructions are to be used in addition to those found in I.L. 15-825-14A.

Resistor, Rectifier, and Operating Coil Application

Fig. 4 lists the common resistor, rectifier and operating coil combinations. Fig. 5 shows typical control circuits for A-C or D-C supply.

For Supply		50 Watt Resistor		Rectifier		Operating Coil		Connect Per Fig.
Volts	Freq	Style Req'd-I	Ohms	Style Req'd-I	Color-RIue	Style Req'd-I	DC Volts For Reference	
120	50/60 Hz	443A324H30	250	2018A40G02		2050A14G24	106	5a
240	50/60 Hz	443A324H39	1000	2018A40G02		2050A14G26	214	5a
480	50/60 Hz	443A324H48	5000	2018A40G03		2050A14G28	430	5a
600	50/60 Hz	443A324H51	7500	2018A40G03		2050A14G30	538	5a
125	DC	443A324H31	300	None		2050A14G25	125	5b
250	DC	443A324H41	1500	None		2050A14G27	250	5b

Fig. 4 Resistor, Rectifier and Operating Coil Combinations for Type GCD Size 5 Contactor (From Dwg. 3512C89)

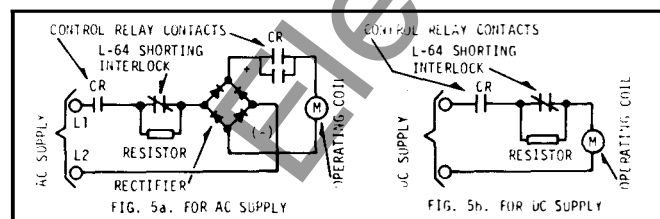


Fig. 5 Typical Control Circuit

(From Dwg. 3512C88)

When a new resistor, rectifier or operating coil is installed, check identification for correct watts, ohms, voltage and style number. Parts and wiring must be reinstalled per Installation instructions. In addition, high temperature insulation or sleeving is required on at least the 6 inches of wire adjacent to a resistor terminal. The resistor mounting stud must not be over-tightened since this can damage the enamel coating, exposing the resistance wire. Such exposure can lead to eventual resistor failure.

Adjustment of The Type L-64 Shorting Interlock

For proper contactor operation, the Type L-64 shorting interlock is to be initially adjusted for .06 contact gap between its stationary and moving contacts with the contactor fully closed. This gap must never be less than .02" nor more than .08". If adjustment is required, see Fig. 6 and follow this procedure:

- 1) Remove all power.
- 2) Close contactor manually.
- 3) Loosen locknut on rear of molded operating arm.
- 4) Turn adjusting screw (screwdriver slot) to obtain the required .06 gap shown in Fig. 6.
- 5) Hold adjusting screw in position with screwdriver and tighten locknut on adjusting screw.

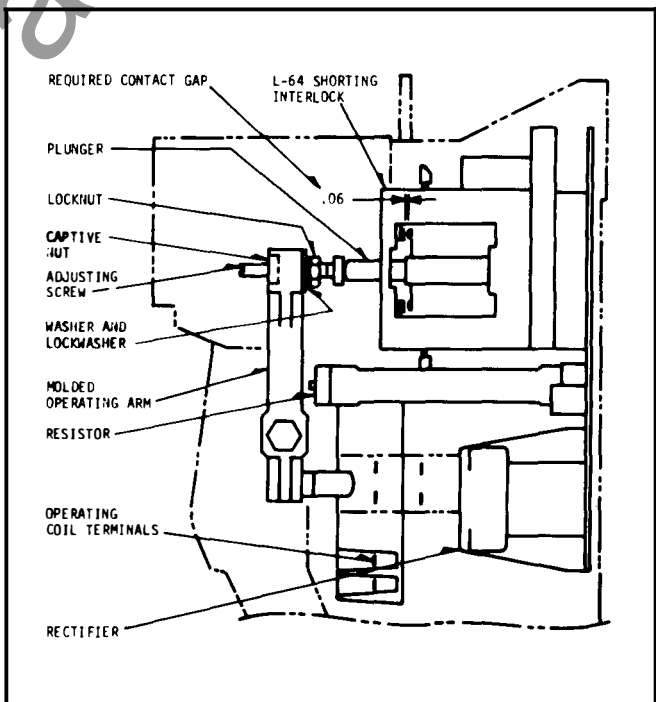


Fig. 6 Adjustment of Type L-64 Shorting Interlock (From Dwg. 3512C85)

RENEWAL PARTS

Complete contactor renewal parts data is listed in RPD 16-100B5D

Complete linestarter renewal parts data is listed in RPD 11-200S5-GCD

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