

GEH-4772 INSTALLATION INSTRUCTIONS

300-Line Space Heater Kits CR305X701, X702, & X705

For 200- or 300-Line Controllers

Caution: Before installing in a nuclear application, determine that the product is intended for such use.

Warning: Disconnect power before installing or servicing.

General Information

The space heater kits are designed for use on NEMA Sizes 0 through 5 enclosed magnetic contactors and starters: CR305/CR205, CR306/CR206, CR307/CR207, CR308/CR208, CR309/CR209, CR310/CR210, and CR311/CR211. The component parts of these kits are shown in Figures 1, 1A, and 1B.

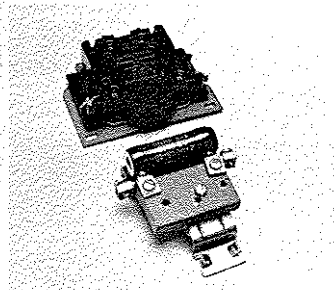


Figure 1. CR305X701

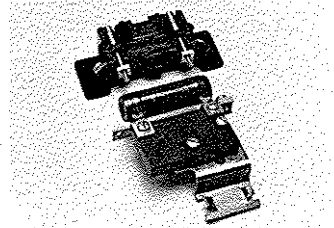


Figure 1A. CR305X702

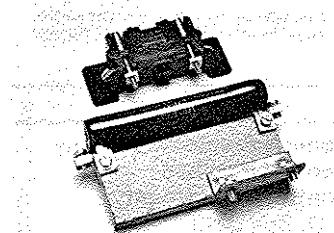


Figure 1B. CR305X705

Installation

(Figure 1. CR305X701)

The CR305X701 space heater kit comes complete with necessary hardware and ready for installation on any NEMA Size 0 or 1 enclosed contactor or starter. The following steps are used for installing the space heater.

1. Remove power from the device.
2. Begin disassembly of device by pressing slightly on coil and pulling up on the coil retainers; motion also being away from the coil.
3. Withdraw the spring clip from the movable portion of the magnet assembly.
4. Remove the magnet assembly, coil, molded cover, and movable arm from the device.
5. Slide the angled flanges on the auxiliary contact bracket into the keyed slots in the molded base as shown in Figure 2.

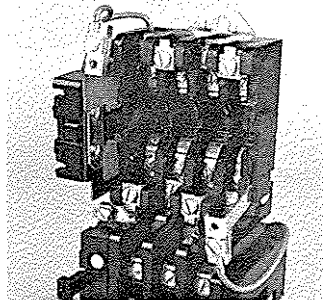


Figure 2.

6. Reassemble movable arm and cover.
7. Insert dove-tail bracket of the heater into keyed slot at top of the molded cover as shown in Figure 3. Reassemble starter (or contactor).
8. Wire the auxiliary contact block and space heater to the power supply as shown in Connection Diagram. Use #14 AWG type TW Underwriters Laboratories labeled appliance wire, rated 90°C and 1/32-inch insulation.

Caution: To maintain UL listing or CSA certification, the enclosed label (GEJ-5956, 5957, 5958, or 5959) must be secured to inside of enclosure cover.

Installation

(Figure 1A. CR305X702)

The CR305X702 space heater kit comes complete with necessary hardware and ready for installation on any Size 2, 3, or 4 contactor or starter.

The following steps are used for installing the space heater.

1. Follow steps 1 through 3 of the CR305X701 installation instructions.
2. Remove the magnet assembly and coil.
3. Insert dove-tail bracket of the heater into keyed slot at top of the molded cover as shown in Figure 3. Reassemble starter (or contactor).

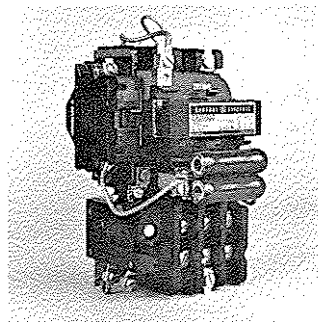


Figure 3.

4. Assemble the auxiliary contact block to the holding interlock block by aligning the nuts on the auxiliary contact block with the cavities in the holding interlock block. Also, align the contact plungers in the two blocks (Figure 4).

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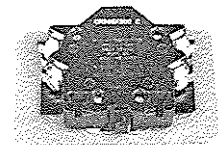


Figure 4.

5. Slide the two blocks together and tighten screws as shown in Figure 5.

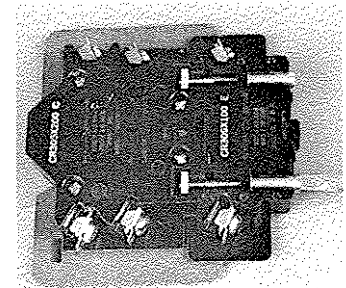
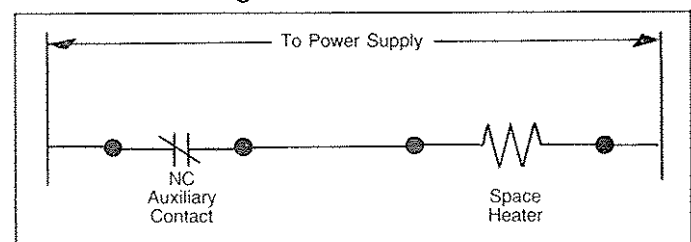


Figure 5.

6. Wire the auxiliary contact block and space heater to the power supply as shown in Connection Diagram. Use #14 AWG type TW Underwriters Laboratories labeled appliance wire, rated 90°C and 1/32-inch insulation.

Caution: To maintain UL listing or CSA certification, the enclosed labels (GEJ-5960, 5961, 5962, or 5963) must be secured to inside of enclosure cover.

Connection Diagram



Installation

(Figure 1B. CR305X705)

The CR305X705 space heater kit comes complete with necessary hardware and ready for installation on any Size 5 contactor or starter.

The following steps are used for installing the space heater:

1. Remove power from the device.
2. Assemble space heater to the right-hand magnet hold-down strap as shown in Figure 6.
3. Follow steps 4 through 6 of the CR305X702 installation instructions.

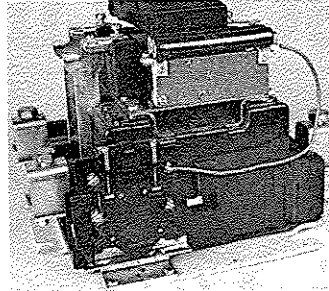


Figure 6.

Caution: To maintain UL listing or CSA certification, the enclosed label (GEJ-5964, 5965, 5966, or 5967) must be secured to inside of enclosure cover.

Kit Identification

NEMA Size	Operating Voltage	Catalog Number
0, 1	115*	CR305X701D
	230	X701A
	460	X701B
	575	X701C
2, 3, 4	115*	CR305X702D
	230	X702A
	460	X702B
	575	X702C
5	115*	CR305X705D
	230	X705A
	460	X705B
	575	X705C

* Requires extra capacity transformer at 115 volts. Refer to nearest ABB Sales Office for additional information.

These instructions do not purport to cover all details or variations in equipment nor to provide for every possible contingency to be met in connection with installation, operation, or maintenance. Should further information be desired or should particular problems arise which are not covered sufficiently for the Purchaser's purposes, the matter should be referred to the nearest ABB sales office.

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