



DEH-40451 Installation Instructions

Lighting Contactors - Enclosure Kits

Enclosure Kits for Lighting Contactor CR460 Series - CR460XE1B, CR460XE1D, CR460XE2B, CR460XE2D, CR460XE4D and CR460XE8B



INTRODUCTION

These enclosure kits are designed for use with CR460 Series lighting contactors. These kits enable field configuration of enclosed CR460 series lighting contactors.



WARNING

HAZARDOUS VOLTAGE.

Disconnect all power before working on equipment.
Electrical shock will cause severe injury or death.

Installation (CR460 Series Lighting Contactor Kits)

Each lighting contactor kit comes with specific instructions for installation. These instructions outline the kit locations inside of the enclosures as well as any enclosure-specific instructions.

1. Refer to Table A for enclosure sizes and types.
2. To configure the NEMA 3R/12 enclosure for NEMA Type 3R use, remove the screw from the drain hole in the bottom of the enclosure.
3. Determine the appropriate wiring diagram to use for application. They are summarised in Table B.
4. The available CR460 Series Lighting Contactor kits are shown in Table C. The contactor is located in the top/centre of the enclosure. Mount it on the baseplate with the 3 screws provided with the enclosure.
5. Perform the connections from the contactor to the terminal board per the wiring diagram.
6. The kits are designed so that the pilot lights are mounted on the top two holes provided, while the pilot devices are mounted on the bottom two holes. This is not mandatory, although it may make wire routing simpler to do so. Remove the hole plugs as required and install the pilot devices in the cover using the appropriate nameplate and lens provided in the kit.
7. Wire the pilot devices and pilot lights to the terminal board as shown in the wiring diagram. Take care to route the wires in a neat, orderly fashion to the terminal board. The wire routing will be simpler if these connections are performed along the outside edge of the terminal board (each terminal board location will accept 2 wires under each terminal clamp).
8. If a remote pilot device is used in the control circuit, perform the appropriate connections to the terminal board locations provided.
9. The control power transformer is mounted below the contactor with the secondary fuse to the left and the control-circuit fuse holder mounted to the right of the contactor. Connect the wires from these devices to the terminal board as shown in the wiring diagram. When the CPT is to be used, remove the nut from the lower-left baseplate stud, attach the ground wire (green) terminal over the stud, and re-secure the nut.

10. Once all connections have been completed, use wire ties and self-adhesive locators to secure wiring in an organised fashion. Leave slack in the wire harness where it passes over the hinge.

NEMA Type	Kit Number	Size (in)			Provision for CPT	Provision for Pilot Device or Light
		Height	Width	Depth		
1	CR460XE1B	10	10	4.6	No	No
1	CR460XE1D	15	13	6.5	Yes	Yes
3R/12	CR460XE2B	10	10	5.5	No	No
3R/12	CR460XE2D	15	13	6.5	Yes	Yes
4/4X	CR460XE4D	15	13	6.5	Yes	Yes
1 Flush	CR460XE8B	12.8	8.7	5.7	No	No

Table – A

Type	Kit Number	Wiring Diagram
Electrically Held	CR460XP1, 2, 3, 4, and 5	55-537555
Mechanically Held	2-Wire Control with Coil Voltage same as Control Voltage	55-537556
Mechanically Held	3-Wire Control with Coil Voltage same as Control Voltage	55-537557
Mechanically Held	2-Wire Control with Coil Voltage different from Control Voltage	55-537558
Mechanically Held	3-Wire Control with Coil Voltage different from Control Voltage	55-537559

Table – B

Type	Kit Number	Instruction Sheet
Pilot Device	CR460XP1, 2, 3, 4, and 5	DEH-40452
Indicating Light	CR460XLBC, DC, BD, DD, BJ, DJ, BL, DL, BS, DS, BN, DN, BT, DT, BU, DU, BY, and DY	DEH-40453
CPT w/Control Circuit Fuse	CR460XTB, C, D, F, L, M, N, P, and S	DEH-40450
Control Circuit Fuse	CR460XF	DEH-40450

Table – C

These instructions do not purport to cover details or variations in equipment nor to provide for every possible contingency that may arise in connection with installation, operation, or maintenance. 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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