ABB Lighting Contactors – Control Module Kits

Control Module Kits for Lighting Contactor CR460 series – CR460XMB, CR460XMC, CR460XMD, CR460XME, CR460XMM, CR460XMN, CR460XMP and CR460XMR

INTRODUCTION

The control module kits are designed for use with CR460 series lighting contactors only. Control module kits enable conversion of an electrically held CR463L series to a mechanically held contactor. These kits are available in both 2-wir e and 3-wire control versions in a variety of voltages. The component parts of a 2-wire control module kit are shown in Figure 1. A 3-wire kit includes an additional single-pole auxiliary contact block.

WARNING !

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

TENSION DANGEREUSE.
Coupez l'alimentation avant travailler sur le produit.
Electrocution peut causer de severes blessures ou la mort.

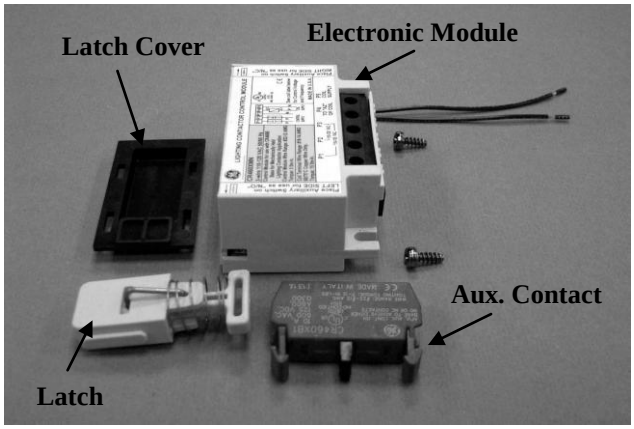


Figure – 1

Installation

1. Remove all packing material.
2. Disconnect all power and mount the control module on the contactor as shown in Figure 2 (picture shown as 3-wire control type). *Note: Punch the coil cover label to expose two holes to accommodate the electrical module.*
3. Mount the latch and the latch cover as shown in Figure 3.
4. Be sure the latch is firmly in place with the wire facing out and the slot positioned with tab inserted.
5. For 2-wire control, the auxiliary contact block is assembled to the right side of the lighting contactor base for normally closed "NC".
6. Operate contactor manually, using manual operation tabs on side, prior to installing cover to insure correct installation.

IMPORTANT: Latch and electronic module must be used together to ensure proper operation. Failure to do so will void warranty.

Note: Once latch cover has been installed, it may not be removed. Ensure latch is properly installedprior to installing cover.

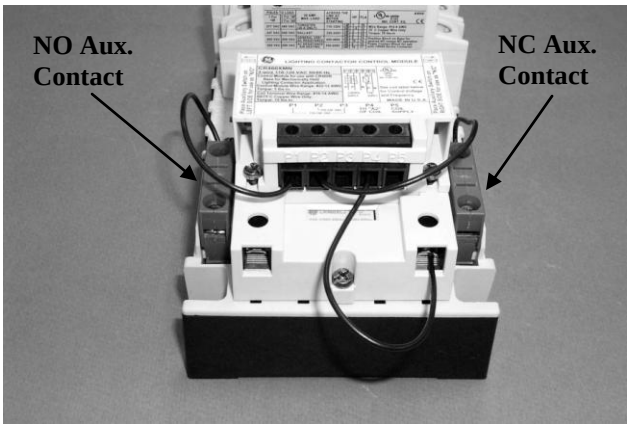


Figure – 2

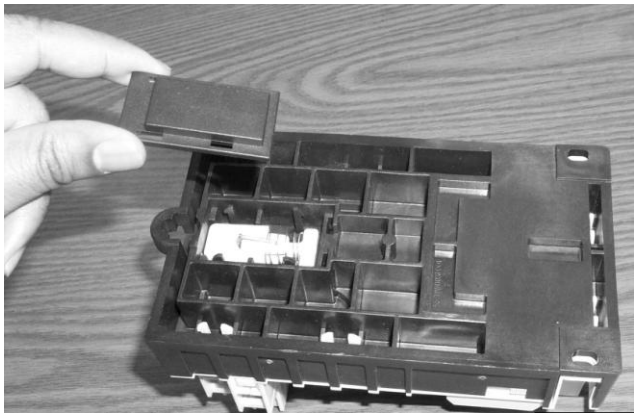


Figure – 3

Wiring
Follow the schematic shown in Figure 4 for 2- and 3-wire control

IMPORTANT: The control module kits are for use with the coils up to 277 Vac maximum. Use a control power transformer forhigher voltages

Note: For 2-wire control, ensure the two wires coming from the control module are connected across a NC auxiliary contact.

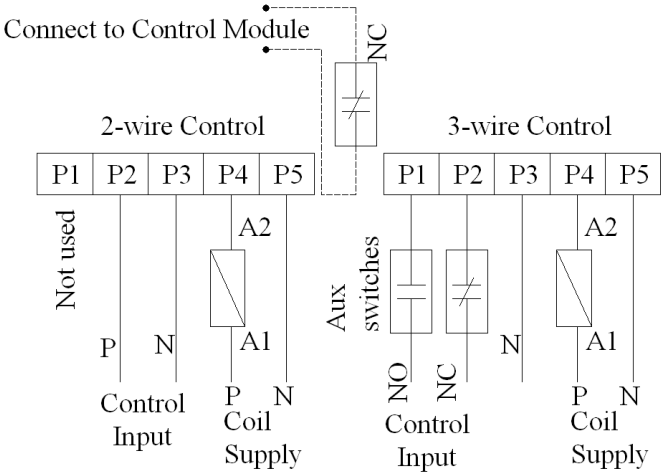


Figure – 4

Termination
Control module's and auxiliary contact blocks' terminals can accept wires from #22 to #12 AWG (either solid or stranded). Maximum tightening torque required for the control module's terminals is 7 in-lbs and for the auxiliary contact block's terminals is from 7 to 12 in-lbs.

Ordering details:
Control Modules:

CR460XMB	2 wire 24 Vac control module / 60/50 Hz
CR460XMC	2 wire 110-120 Vac control module / 60/50 Hz
CR460XMD	2 wire 200-277 Vac control module / 60/50 Hz
CR460XME	2 wire 12-18 Vdc control module
CR460XMM	3 wire 24 Vac control module / 60/50 Hz
CR460XMN	3 wire 110-120 Vac control module / 60/50 Hz
CR460XMP	3 wire 200-277 Vac control module / 60/50 Hz
CR460XMR	3 wire 12-18 Vdc control module

Auxiliary Contacts:

CR460XB1	Auxiliary contact block 1 NO/NC
CR460XB2	Auxiliary contact block 2 NO/NC

Note:
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 Purchase's purpose, the matter should be referred to the nearest General Electric sales office.

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