

# Lighting Contactors

## CR460 Series

### Application Information

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CR460 lighting contactors switch ballast (fluorescent or HID), tungsten and general use loads and carry motor load, resistive and pilot duty ratings as well.

### CR463L Electrically Held Contactors

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#### Operational Mode

- 3-wire control is typically used when control is desired from multiple locations. The contactor is operated from a momentary pilot device and requires an auxiliary contact to be used as a holding interlock.
- 2-wire control is used for single location control with power continuously supplied to the coil for contactor operation.

### CR463M Mechanically Held Contactors

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A mechanical latch with a 2- or 3-wire electronic control module delivers reliable performance and protection from such application abnormalities as line noise, leakage currents from controller outputs, or short repetitive commands burst from faulty controllers.

#### Mechanical Operation

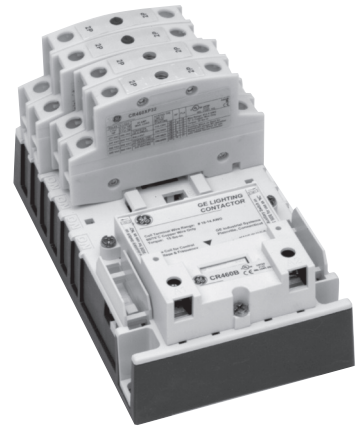
- Latches after contactor command and removes coil from circuit for noise-free operation
- Eliminates all coil losses after contactor is latched

#### Control Module

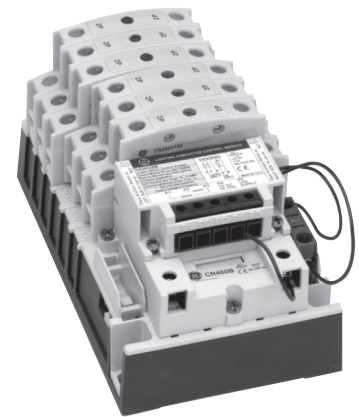
- Coil operation and control circuit at same or different voltages
- Allows longer control wiring runs
- Microprocessor validates control signal before operation
  - will not respond to momentary voltage spikes or noise
  - operation command has built in delay (0.4 sec) to avoid multiple short-term commands that can cause contact fatigue or failure
  - feedback loop prevents contactor from getting out of sequence with switches, even after power failures

#### Operational Modes

- 3 wire control is the choice for use with momentary devices allowing operation from multiple locations
  - a momentary pulse of energy operates contactor; a second pulse on alternate leg returns contactor to original state
- 2-wire control is the choice for single-output automatic operation or for operation from single-pole devices
  - latches contactor into position when voltage is applied to input terminals (coil is removed from circuit while control voltage is continuously supplied); disengages latch and returns contactor to original state when control voltage is removed.



CR463L Electrically Held



CR463M Mechanically Held

