⚠ WARNING

Hazardous voltage
Can cause death or serious injury.

Disconnect main power and control voltages before installation or maintenance on the equipment.

IMPORTANT

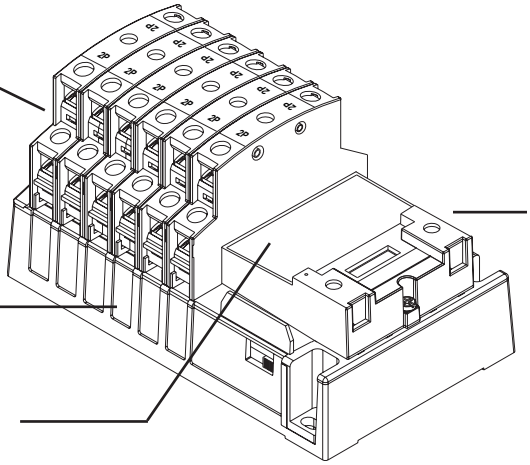
THESE INSTRUCTIONS DO NOT PURPORT TO COVER ALL DETAILS OR VARIATIONS IN EQUIPMENT, NOR TO PROVIDE FOR EVERY POSSIBLE CONTINGENCY TO BE MET IN CONNECTION WITH INSTALLATION OPERATION OR MAINTENANCE. SHOULD FURTHER INFORMATION BE DESIRED OR SHOULD PARTICULAR PROBLEMS ARISE WHICH ARE NOT COVERED SUFFICIENTLY FOR THE PURCHASER'S PURPOSES, THE MATTER SHOULD BE DEFERRED TO THE LOCAL SIEMENS SALES OFFICE. THE CONTENTS OF THIS INSTRUCTION MANUAL SHALL NOT BECOME PART OF OR MODIFY ANY PRIOR OR EXISTING AGREEMENT, COMMITMENT OR RELATIONSHIP. THE SALES CONTRACT CONTAINS THE ENTIRE OBLIGATION OF SIEMENS. THE WARRANTY CONTAINED IN THE CONTRACT BETWEEN PARTIES IS THE SOLE WARRANTY OF SIEMENS. ANY STATEMENTS CONTAINED HEREIN DO NOT CREATE NEW WARRANTIES OR MODIFY THE EXISTING WARRANTY.

Electrically Held (Standard)

Power Pole Modules
Power pole modules are available in either single pole (49LCPP1A) or double pole (49LCPP2A) versions.

Main Base
The base of the lighting contactor has provisions to accept up to six power pole modules for a total of twelve power poles. A combination of normally open (N.O.) and normally closed (N.C.) contacts may be assembled but with a maximum of eight N.C. contacts.

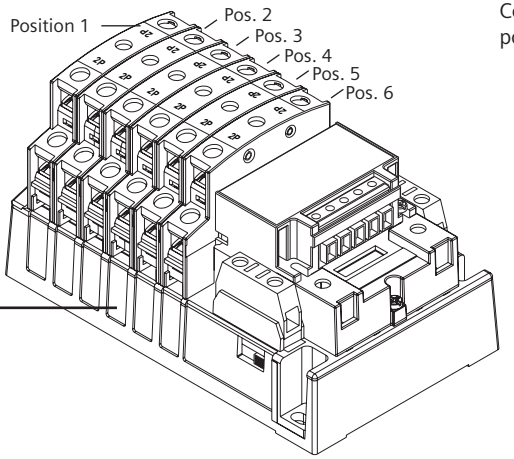
Control Module Kits
Conversion from an electrically held to a mechanically held contactor can be accomplished with a control module kit. Kits are available for both 2-wire and 3-wire control in a variety of control voltages. The control module is available up to 277V maximum. For control voltage greater than 277V, use a control transformer. Refer to Replacement Parts and Accessories for catalog numbers. Instruction and wiring diagrams can be found in the control module instruction sheets.



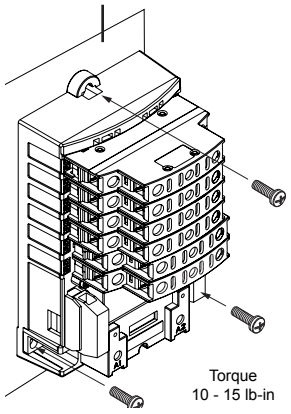
Auxiliary Contact
The auxiliary contact blocks are available in either single pole (49LCAC1PA) or double pole (49LCAC2PA) versions. Auxiliary contacts can be installed on either side of the base. When installed on the RIGHT side, the auxiliary contact functions as a N.C. contact. When installed on the LEFT side, the auxiliary contact functions as a N.O. contact.

Mechanically Held (Optional)

Assembly
Positions 1 through 4 on the base can be configured to either normally open (N.O.) or normally closed (N.C.) while positions 5 and 6 can only be configured as normally open (N.O.). Each position can accept one power pole module. Each power pole module can consist of either a single or double power pole.



Mounting
Contactor must be mounted in the vertical position on a sturdy support.

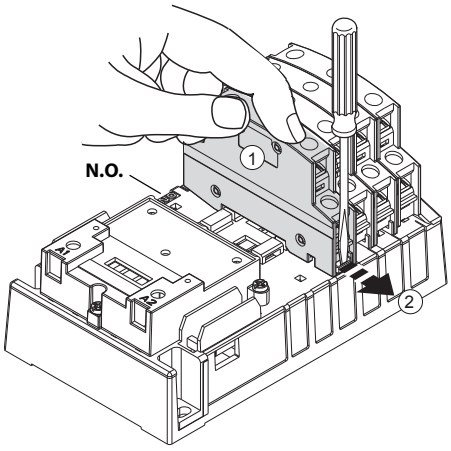


Instruction sheet

Installing Power Pole Modules

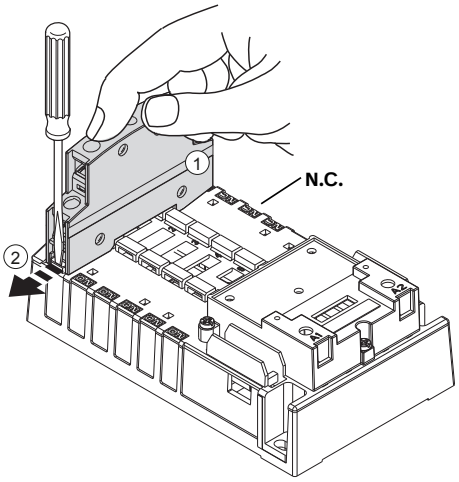
N.O. Power Pole Installation

1. Install the power pole module by sliding foot into slot from the N.O. indicator side.
2. Pull clip, position power pole module onto the base, and release.



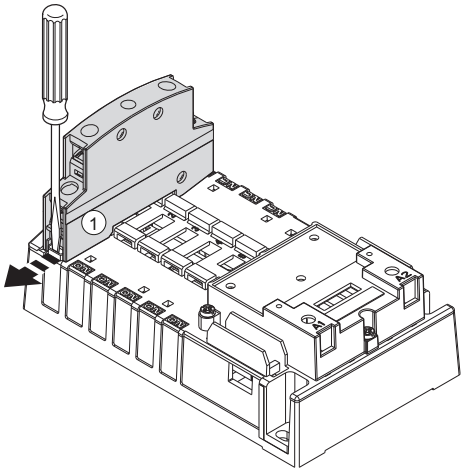
N.C. Power Pole Installation

1. Install the power pole module by sliding foot into slot from the N.C. indicator side.
2. Pull clip, position power pole module onto the base, and release.



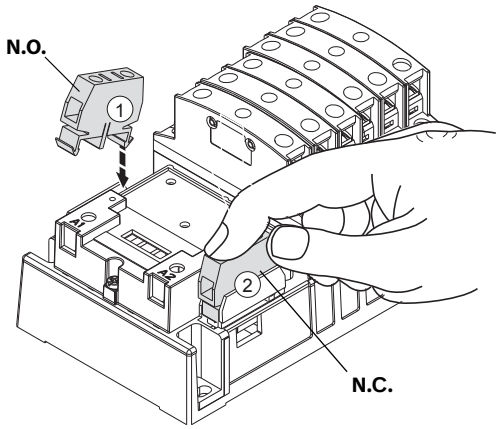
Removing the Power Pole Modules

1. Remove power pole module by inserting screwdriver into the plastic clip and pull it out to release the power pole module from the base.



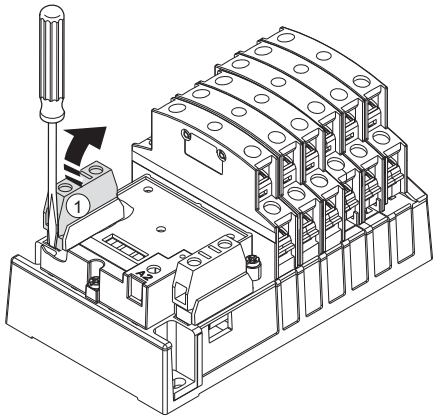
Auxiliary Contact Block Installation

1. Insert one end of auxiliary contact module.
2. Snap opposite end in place.



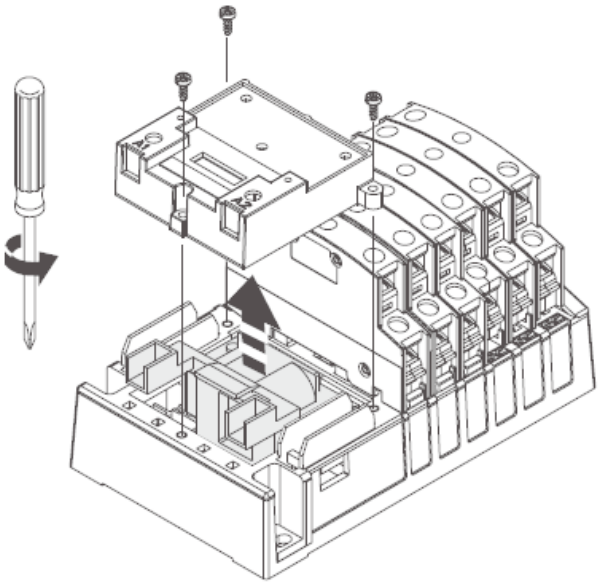
Auxiliary Contact Block Removal

1. Slide flat screwdriver into clip of auxiliary contact module and lift.

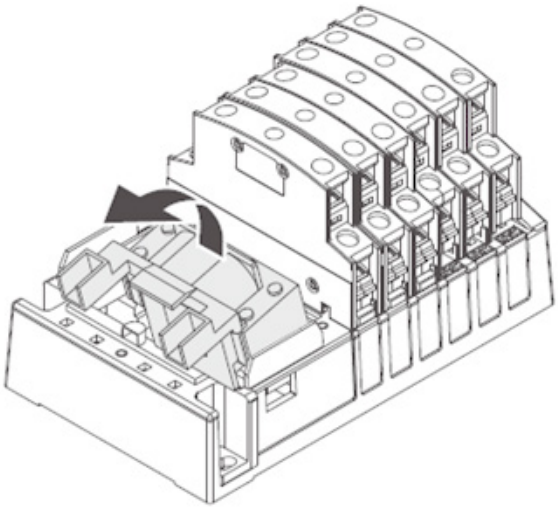


Coil Replacement for Electrically Held Contactors

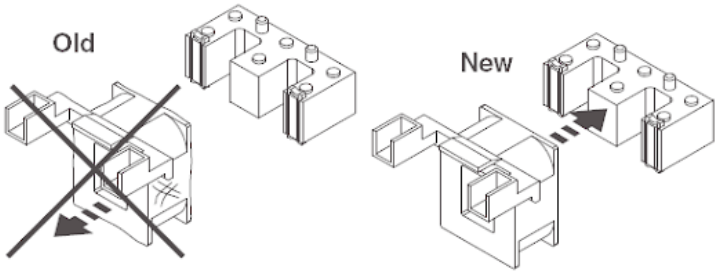
Step 1: Remove the coil cover.



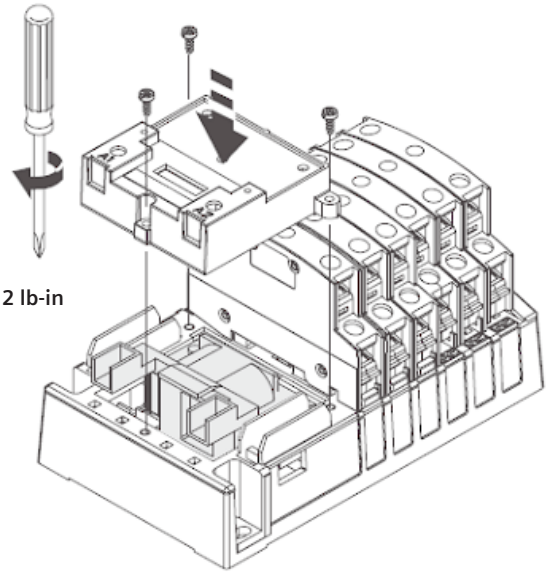
Step 2: Remove coil assembly.



Step 3: Replace with new coil.



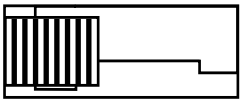
Step 4: Reinstall coil assembly and cover.



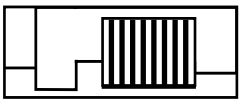
Torque 7 - 12 lb-in

Coil Replacement for Mechanically Held Contactors

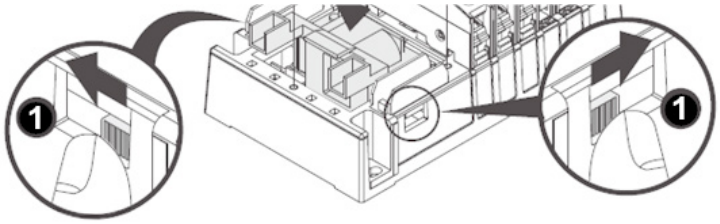
Step 1:
Check the position of the manual operating tabs to verify the contactor is in the unlatched state. If in the latched state, push both tabs forward and release. The Contactor should return to the unlatched state.



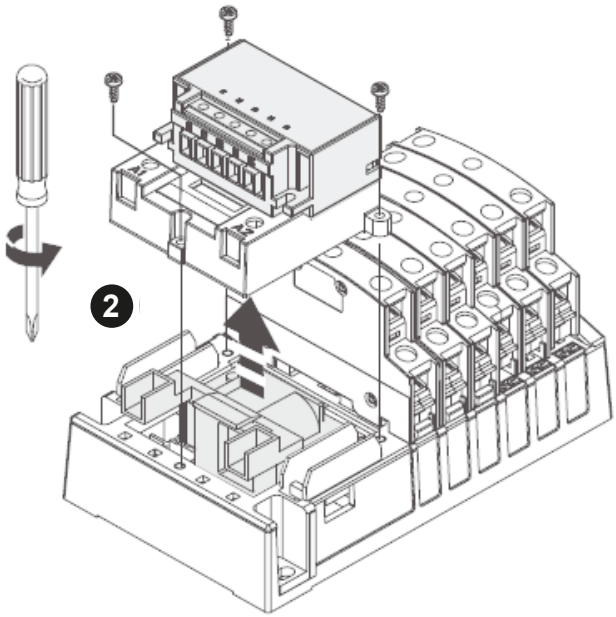
Unlatched state



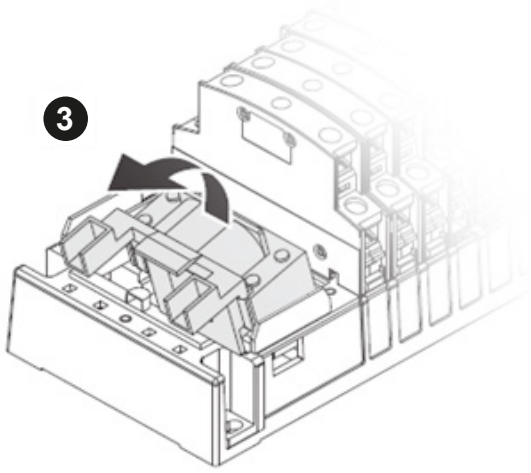
Latched state



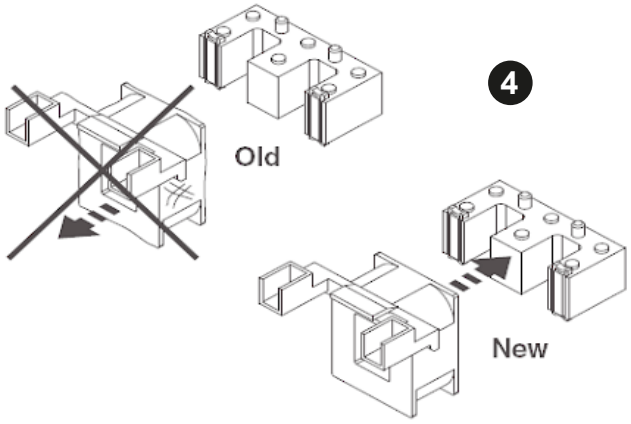
Step 2:
Remove all wires from the control module and remove the coil cover along with the control module.



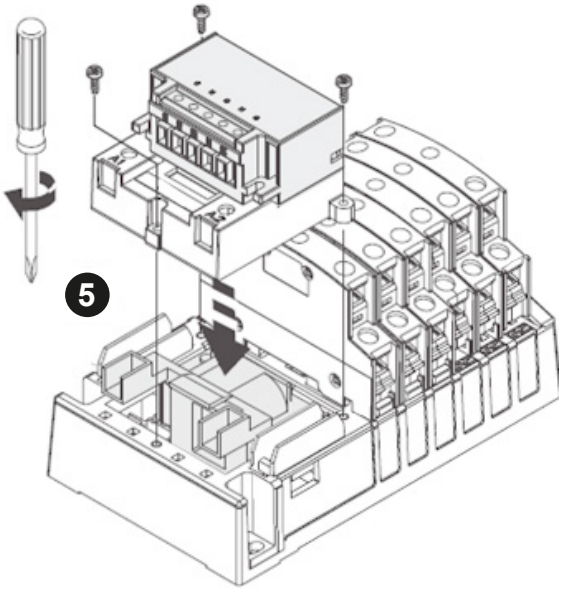
Step 3: Remove coil assembly



Step 4: Replace with new coil.



Step 5: Replace with new coil.



Wiring Diagram (Electrically Held Contactor)

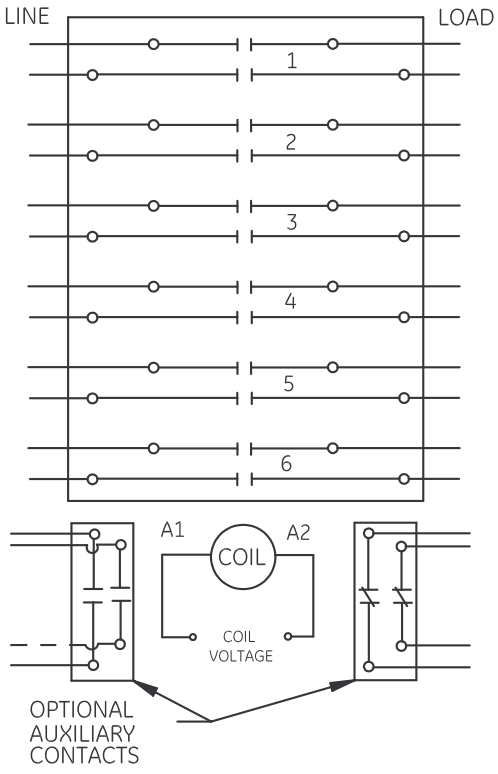
Refer to control module instruction sheets
for wiring of mechanically held contactors.

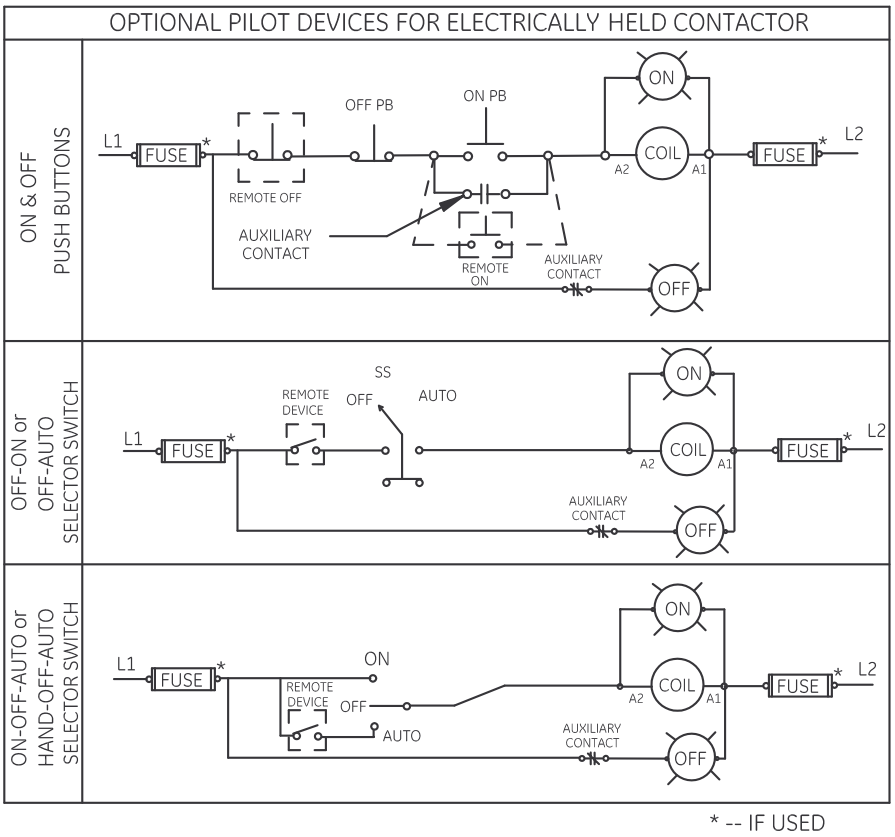
Contacts in positions 1 through 4 can be used as either NO or NC.

Contacts in positions 5 and 6 can be used only as NO.

Main contacts are shown in open position.

Line and load terminals are reversible.





Notes:

1. Refer to the NEC or local electric code as required.
2. Additional over current protection for control circuit may be required.
3. When coil and line voltages are same, the control voltage may be derived from the line for supply.
4. Ground lug kit number 49D11960001 meets CSA standard 22.2 no. 14-1973 and is rated for 1 conductor 2-14 AWG AL/CU wire.

Replacement Parts and Accessories

Kit Type	Description	Catalog No.
Coil	24V 60Hz / 20V 50Hz	75LCC024A
	115-120V 60Hz / 110V 50Hz	75LCC120A
	200-208V 60Hz	75LCC208A
	230-240V 60Hz / 220V 50Hz	75LCC240A
	277V 60Hz / 240V 50Hz	75LCC277A
	347V 60Hz	75LCC347A
	460-480V 60Hz / 440V 50Hz	75LCC480A
	575-600V 60Hz / 550V 50Hz	75LCC600A
Power Pole	Single power pole	49LCPP1A
	Double power pole	49LCPP2A
Auxiliary Contact	1 NO/NC	49LCAC1PA
	2 NO/NC	49LCAC2PA
Control Module	2-wire, 24VAC	49LCCM1A
	2-wire, 110-120VAC	49LCCM2A
	2-wire, 200-277VAC	49LCCM3A
	3-wire, 24VAC	49LCCM4A
	3-wire, 110-120VAC	49LCCM5A
	3-wire, 200-277VAC	49LCCM6A

Component	# of Wire	Wire Range AWG (Solid or Stranded)	Wire Temp	Torque (lb-in)
Power Poles	1 or 2	#14 - 8*	75º C Cu	35
Coil	1 or 2	#18 - 14	60º / 75º C CU	15
Auxiliary Contacts	1 or 2	#22 - 12	60º / 75º C CU	7 - 12

* #8 AWG is stranded only.

Note: If using a control power transformer, the minimum recommended size is 100VA.

For replacement parts information or an application guide, visit our website at usa.siemens.com/controls, or contact your local Siemens sales office.

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