



# Allen-Bradley 1395 345A Contactor Replacement

## Instructions

### General

The contactor supplied as a replacement item for 345A (100HP–230V and 200HP–460V) 1395 drives has changed suppliers. The mounting holes and terminal positions are changed on the new contactor. As a result this new contactor is supplied mounted on an adapter plate that allows it to be mounted using the same hardware as the old contactor. These instructions will provide you with the information necessary to correctly mount and wire the replacement contactor.

### Safety Precaution



**ATTENTION:** To avoid a shock hazard, verify that all power to the drive has been disconnected and locked out before servicing or removing the Contactor assembly.

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### Tools & Equipment

The following tools & equipment must be available before starting a contactor assembly replacement:

1. Torque Wrench calibrated in Foot Pounds or Newton Meters.
2. Socket Wrench, short extension and a 1/2 in. socket.
3. Flat screw driver with 1/4" blade.
4. Plastic cable ties to match the ones removed from the wires.

### Contactor Removal

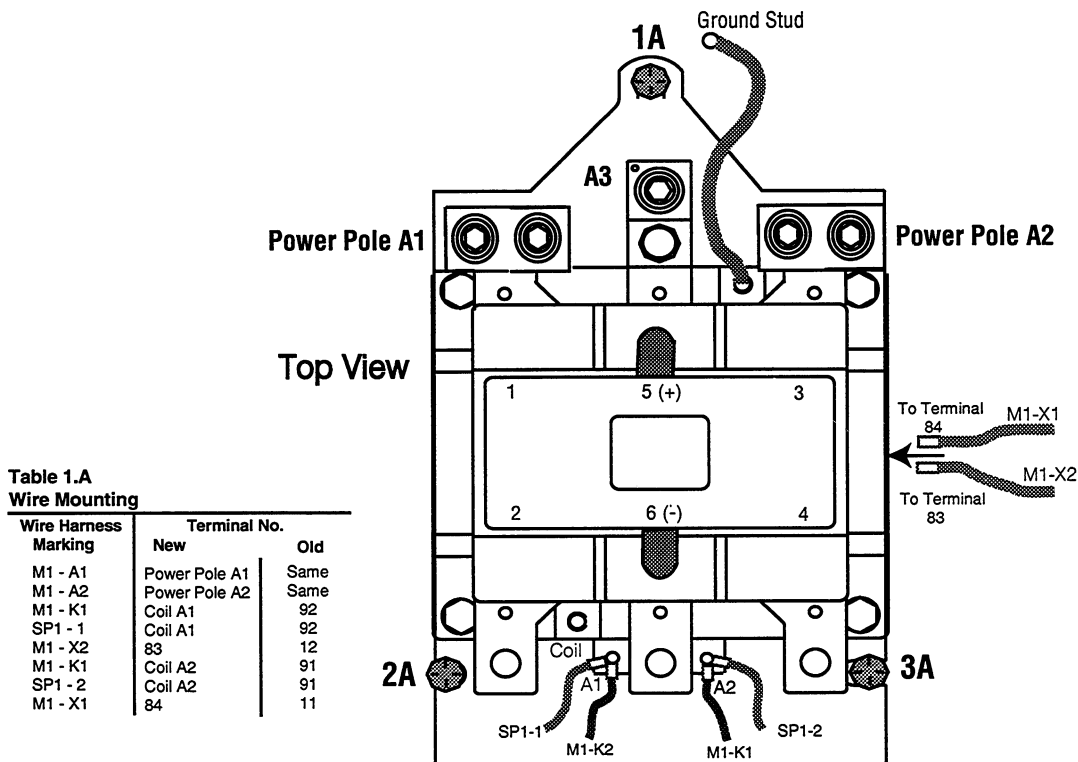
1. Before removing any connections or wires from the old contactor unit, check to make certain that the wiring harness is marked as shown in Table 1A. If wires are not marked, they should be marked using the old contactor terminal identification in the table as a guide.
2. Remove all cables and wires to the old contactor. If your unit is equipped with dynamic braking the dynamic brake connections to the contactor must also be removed.
3. While supporting the old contactor from below, remove the hardware holding it to the drive and remove it from the drive.

### Contactor Installation

1. Position the new Contactor/Adapter Plate unit in the drive and secure with the three fasteners at 1A, 2A, 3A (Figure 1–1) and torque to 75 in. lbs (8.5 Newton Meter<sup>2</sup>).
2. Install the ground wire between the new contactor unit and the ground stud as shown in Figure 1–1.

3. Install the M1 connections at terminals 83 & 84 (Figure 1-1).

**Figure 1-1.**  
**345A Contactor Connections**



**Table 1.A**  
**Wire Mounting**

Wire Harness Marking	Terminal No.	
	New	Old
M1 - A1	Power Pole A1	Same
M1 - A2	Power Pole A2	Same
M1 - K1	Coil A1	92
SP1 - 1	Coil A1	92
M1 - X2	83	12
M1 - K1	Coil A2	91
SP1 - 2	Coil A2	91
M1 - X1	84	11

4. Install the four coil connections (K1,K2 & SP1-1&2) at A1 & A2.
5. Install the Power Pole connections at A1 & A2. If your unit includes dynamic braking, install the dynamic braking connections at A3.



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