CONTACTOR FAILS TO HOLD

START

Is the contactor coil energizing and moving the contact assembly?

YES

Does the holding or sealing circuit close?

YES

Is there a physical stop that keeps the contacts from closing?

YES

Remove the physical barrier, providing it is not a safety feature.

NO

Does the voltage to the magnetic coil stay constant?

YES

Is the magnetic assembly dirty or sticky?

YES

Clean and lubricate with a non-conducting cleaner.

NO

Are the overload relays staying closed?

YES

Replace the contactor if necessary.

NO

Check the control circuit for operations or check the wiring to the contactor auxiliary contacts.

Check the branch circuit for voltage variations.

Check the control circuit and the coil for an open circuit.

END