TYPE HEO-1, SERIES A,
NEMA SIZE 3, 100 AMPERE, DC CONTACTOR
SINGLE POLE, NORMALLY OPEN

INSTALLATION AND ADJUSTMENT

Mount the contactor vertically on a rigid support. Provide at least 1"
clearance above the top of the contactor base and 2" in front of the
contactor for arcing clearance and arc chute removal.

With the contactor power OFF, remove the arc chute (1) and operate
the contactor by hand. The contact tips should meet squarely. If they do
not, adjust by the procedure described below in step 6 of "Contact Tip
Replacement". When released, the contactor should open freely. If it does
not, check for clearance around the bearing bracket (14) and the opening
spring (25). Check all electrical connections to see that they are tight
and replace the arc chute. No further adjustments are necessary.

CAUTION: Do not operate the contactor under load without the arc
chute installed in its proper position.

TROUBLESHOOTING

PROBLEM: Contactor will not close when energized.

SOLUTION: Check the voltage at the operating coil terminals. An ab-
sence of voltage indicates a fault elsewhere in the circuitry. If the coil
voltage is normal, disconnect the coil leads and check the coil for con-
tinuity. An open or shorted coil must be replaced.

REPAIR and MAINTENANCE

CONTACT TIP REPLACEMENT

To determine when the contact tips should be replaced, the con-
tact follow up must be measured. The contact follow up is the dis-
tance "F" measured at the upper edge of the contact arm with the con-
tactor fully closed, as shown on the right. When this distance
is reduced to 1/16" or less, the contact tips must be replaced to
assure that proper contact pres-
sure is maintained.

Should it be necessary to re-
place the tips, a 7/16" open end
wrench is the only tool needed
and the following procedure should be followed:

1. Remove the arc chute (1).
2. Unscrew the hex head bolt (38A) holding the flexible con-
ector and movable contact
tip in place.
3. Remove these parts and unscrew the hex head bolt (38B)
holding the stationary contact
tip in place.
4. Install a new stationary contact
tip (36) and replace the bolt (38B)*
5. Reassemble the new movable
tip (35) flexible connector (18), and bolt (38A)*
in that order.
6. Operate the contactor by hand
to see that the tips meet
squarely. Contact tip align-
ment can be adjusted by loo-
sening the tip retaining
bolts and shifting the tips.
After the contacts are properly
aligned, retighten the bolts
securely.
7. Replace the arc chute.

COIL REPLACEMENT

* To replace the operating coil, a
screwdriver and a 7/16" open end
wrench are needed and the follow-
ing procedure should be fol-
lowed:

1. Remove the arc chute.
2. Remove the coil leads.
3. Remove the two hairpin clips
   (20) and push the contact arm
   pin (19) out.
4. Remove the contact arm as-
   sembly.
5. Unscrew the hex head bolt
   (9) on the top of the magnet
   core and remove the coil.
6. Install the new coil and re-
   place the core cap (23), the
   core cap spacer (22), lock-
washer (9), and hex head bolt
(9). Make sure the core cap
(heavy steel washer) is next to
the coil.
7. Replace the contactor arm as-
   sembly, contact arm pin (19)
   and two hairpin clips (20).
8. Reconnect the coil leads to
   the coil and replace the arc
   chute.

LUBRICATION

The type "H" contactor requires
no lubrication. The pivot pins bear
in a self-lubricating material.

NOTE: * The special non-magnetic bolts and lockwashers supplied with the contact parts kit must be used.
* Minor revision since previous issue.

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