

SUBJECT: 06TA/06TR Motor Cooling

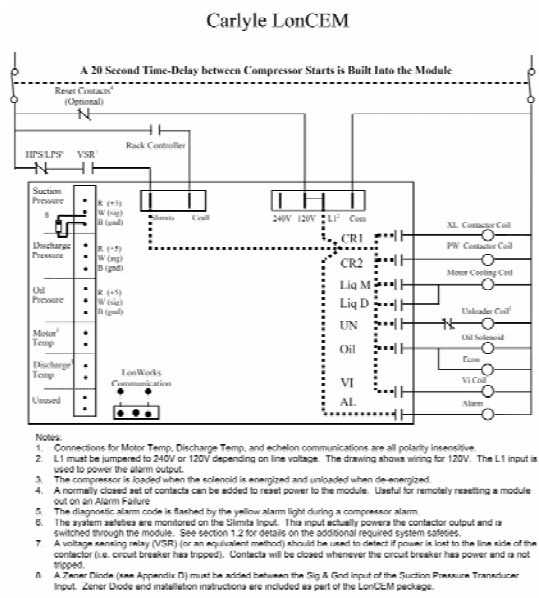
DATE: August-12-2008
 AUTHOR: Steve Holden/Jeff Hanna

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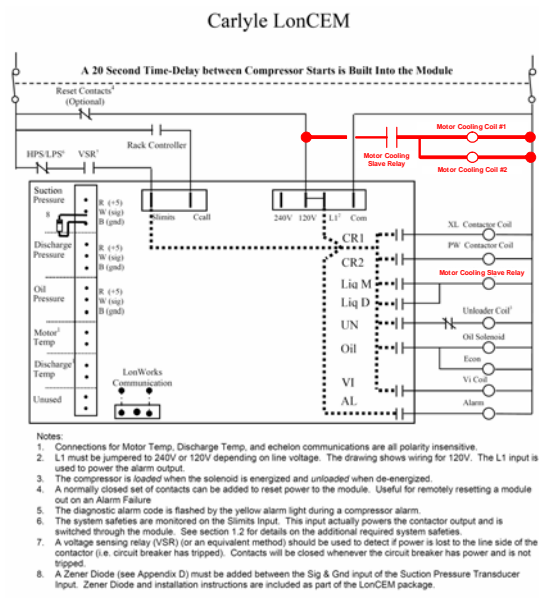
Product Name: 06TA/06TR 74mm Screw Compressors

DESCRIPTION

When applying the 06TA and 06TR compressors in applications where the operating voltage may consistently run under the nominal line voltage and where the condensing temperature is in the upper portion of the operating envelope it may be necessary to use dual motor cooling injection valves to maintain motor temperature. Care should be taken in applying these parallel injection valves such that the discharge gas superheat is not excessively reduced. Oil separation can be negatively impacted resulting in high carryover if the discharge gas superheat drops below 10°F. The dual motor cooling valve can be controlled through the LonCEM module through the addition of a slave relay. Figure 1 shows the typical wiring of a motor cooling injection valve. Figure 2 shows how dual valves should be installed with the slave relay.



**Figure 1:
 Typical LonCEM
 Wiring Schematic**



**Figure 2:
 Parallel Motor Cooling Valves
 LonCEM Wiring Schematic**