



TRANE®

Confidential Service Bulletin

CVHE-F with Rockwell LF 2.0 Drive

ORDER No.: CTV-SVC04B-EN

DATE: May 2003

Inductor mounting inspection and adjustment (Refrigerant Cooled Only)

Inductor Interference with enclosure; Potential short!

NOTICE: Warnings and Cautions appear at appropriate locations throughout this manual. Read these carefully.

⚠ WARNING: Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

⚠ CAUTION: Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

CAUTION: May also be used to alert reader to a situation that could result in equipment or property only damage.



INTRODUCTION

Action:

Recommend turning off drive and securing electrical power OFF until Drive inspection is performed, and adjustment made if necessary.

Problem:

The LF 2.0 Drive has inductors in the center enclosure portion towards the rear of the enclosure. The inductors may be mounted such that is in contact with the enclosure "mullion" (U channel support) which can wear through the insulation materials which then can short to the unit chassis.

DISCUSSION

Background:

The inductors are used to filter out harmonics (similar to LF1.5 line reactors) and are located at the back side of the drive cabinet. There is one 3 phase inductor in each LF2 drive with three large windings at the top and three smaller windings at the bottom. These windings have winding paper and varnish for insulation. However, in some cases the rightmost upper winding is in contact with the cabinet frame. Running vibration of the chiller is enough to wear through the insulation and supply voltage of 480 VAC shorts to the cabinet.

Corrective Action

See CTV-SVB04A-EN.

Labor Authorization:

If chiller is in Service:

Given access and ability to shut down any unit upon arrival the task shouldn't take longer than 4 hours plus travel.

If chiller has not been started, then this can be done at startup, thus avoiding a trip charge.

Expiration Date: April 30, 2003

Dead line 60 days to file claim.



Units affected:

- All CVHE-F with Rockwell LF 2.0 drives shipped prior to November 2002. See attached list of sales orders.
- 608 amp drives shipped prior to 2-6-2003.

In Nov 2002 the 405 amp drive went into production. The 405 amp drives have smaller inductors therefore adequate clearance between the inductors and the rear channel. Prior to 11-2002 the 608 amp drive was the only refrigerant cooled drive utilized.

Product Changes

Rockwell has changed the assembly and now provides required clearance.

ORDER NO	SHP_DATE	SRTY	SRRL	MNRA
Q2D920A	05/31/2002	UAFD	608	409.00
K3R731A	06/17/2002	UAFD	608	528
X1A391A	06/21/2002	UAFD	608	333.00
X1A391B	06/21/2002	UAFD	608	333.00
W4H099A	06/27/2002	UAFD	608	401.00
W4H099B	06/27/2002	UAFD	608	401.00
V5K130A	06/28/2002	UAFD	608	267.00
X1A422B	06/28/2002	UAFD	608	324.00
X1A422A	06/28/2002	UAFD	608	324.00
V5K130B	06/28/2002	UAFD	608	267.00
M5Q381A	06/29/2002	UAFD	608	278.00
X6B713A	07/18/2002	UAFD	608	364.00
D1L640A	07/19/2002	UAFD	608	331.00
N4D934A	07/29/2002	UAFD	608	487.00
N4D934B	07/29/2002	UAFD	608	487.00
R1V621B	07/31/2002	UAFD	608	557
W3R572A	08/06/2002	UAFD	608	193
R1V621A	08/14/2002	UAFD	608	397
W1K853A	08/16/2002	UAFD	608	274.00
A1M183B	08/19/2002	UAFD	608	329.00
G2E710A	08/20/2002	UAFD	608	493.00
M5Q433A	08/22/2002	UAFD	608	505
M5Q433B	08/22/2002	UAFD	608	505
W2D004A	08/26/2002	UAFD	608	271.00
D2L674A	09/06/2002	UAFD	608	359
L4J189B	09/06/2002	UAFD	608	234.00
A1M080A	09/13/2002	UAFD	608	160
A3A680A	09/13/2002	UAFD	608	213.00
A3A680B	09/13/2002	UAFD	608	213.00
E3A542B	09/17/2002	UAFD	608	576.00
E3A542A	09/18/2002	UAFD	608	576.00
H5H202C	09/23/2002	UAFD	608	577.00
L5W363A	09/24/2002	UAFD	608	225.00
B2S541A	09/26/2002	UAFD	608	159.00
B2S541B	09/26/2002	UAFD	608	159.00

ORDER NO	SHP_DATE	SRTY	SRRL	MNRA
L3C535A	09/27/2002	UAFD	608	446.
M5P491A	09/27/2002	UAFD	608	427
W2D293A	09/30/2002	UAFD	608	370.00
C3Q733A	10/14/2002	UAFD	608	578.00
B2S534A	10/16/2002	UAFD	608	312
B2S534B	10/16/2002	UAFD	608	312
W3A053A	10/18/2002	UAFD	608	291
W3A053B	10/18/2002	UAFD	608	275.00
W3A053A	10/18/2002	UAFD	608	275.00
G1K702A	10/21/2002	UAFD	608	564.00
X1A845A	10/30/2002	UAFD	608	513.00
X1A845B	10/30/2002	UAFD	608	513.00
E5F068A	11/07/2002	UAFD	608	544
E5F068B	11/08/2002	UAFD	608	544.00
T5K556B	11/15/2002	UAFD	608	564.00
D5A332B	11/18/2002	UAFD	608	440.00
T5K556A	11/18/2002	UAFD	608	564.00
C3Q733B	12/03/2002	UAFD	608	578.00
C3Q733C	12/03/2002	UAFD	608	578.00
E1D329B	12/16/2002	UAFD	608	608
E1D329A	12/17/2002	UAFD	608	608
R1E324A	12/27/2002	UAFD	608	603.00
R1E324B	12/27/2002	UAFD	608	544.00
A1N680B	01/20/2003	UAFD	608	447.40
P1R930A	01/20/2003	UAFD	608	475
H5J332A	01/24/2003	UAFD	608	589.00
W2D864A	01/24/2003	UAFD	608	539.00
W2D864B	01/24/2003	UAFD	608	539.00



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For more information contact your local district office
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Stocking Location	Electronic Only

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