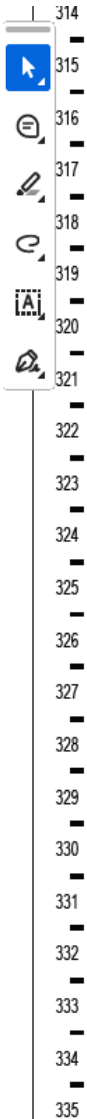


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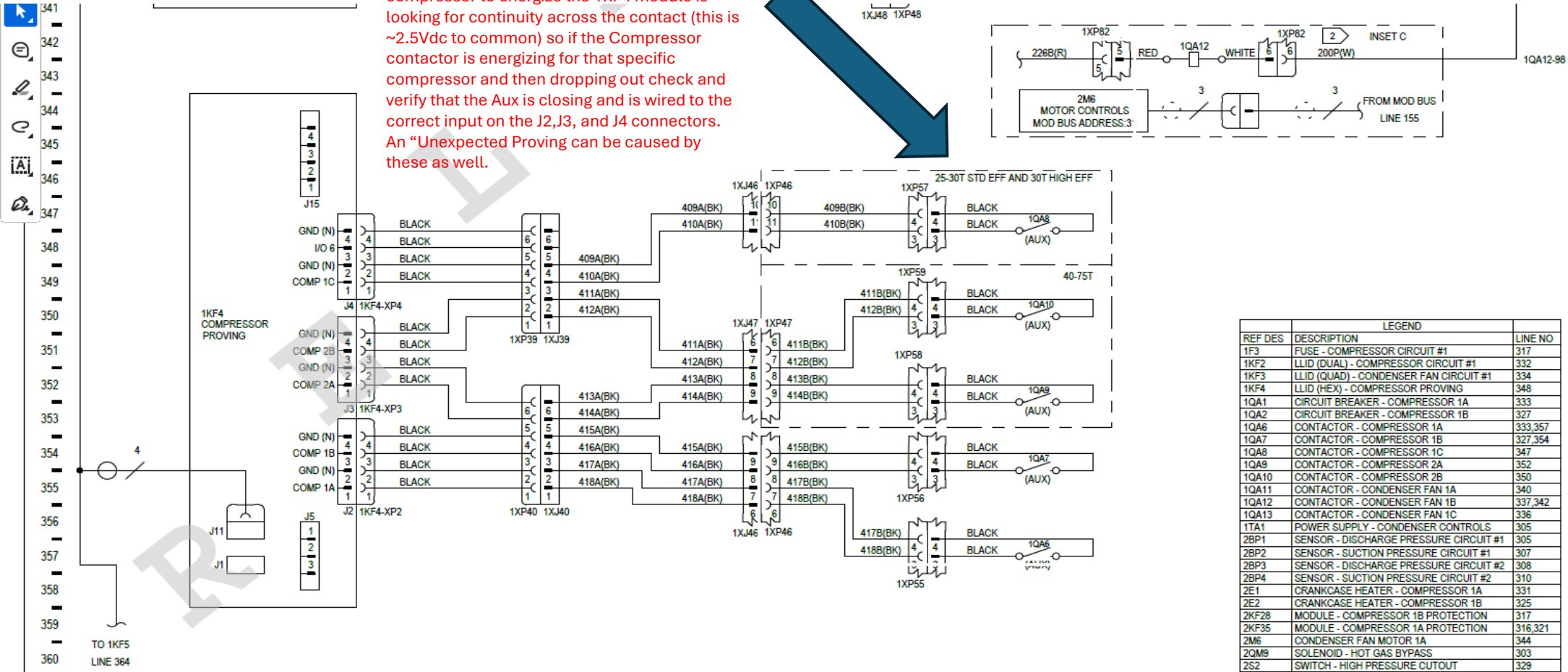


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If the Compressor Contactor is Energizing but Dropping out after ~2 seconds or dropping out intermittently

The Compressor Proving is driven by the Aux contacts for the compressor contactors, so when the Symbio commands a specific compressor to energize the 1KF4 module is looking for continuity across the contact (this is ~2.5Vdc to common) so if the Compressor contactor is energizing for that specific compressor and then dropping out check and verify that the Aux is closing and is wired to the correct input on the J2,J3, and J4 connectors. An "Unexpected Proving" can be caused by these as well.



- NOTES:
- 1 WIRING SHOWN FOR 25-70T UNITS. SEE INSET A FOR 75T UNITS SEE INSET B FOR 20T UNITS.
 - 2 WIRING SHOWN FOR STANDARD AMBIENT UNITS. SEE INSET C FOR LOW AMBIENT UNITS.
 - 3 FOR GAS HEAT, REFER TO 3KF31 ON LINE 717. FOR ELECTRIC HEAT, REFER TO 3KF31 ON LINE 709. FOR HYDRONIC HEAT, REFER TO 3KF39 ON LINE 664.

DESIGNER:	R. JOHNSON
ENGINEER:	S. MCKINLEY
TRANE @ DATE:	14 JAN 2022
REPLACES:	
SIMILAR TO:	
REVISION DATE:	24-MAR-2023
REVISED BY:	R. HUBBALLI

IPAK 1 CONTROLS SCHEMATIC 20-75T REF SYSTEM #1, IND MOTORS			
MASTER NUMBER:	DRAWING NUMBER:	SHEET:	REV

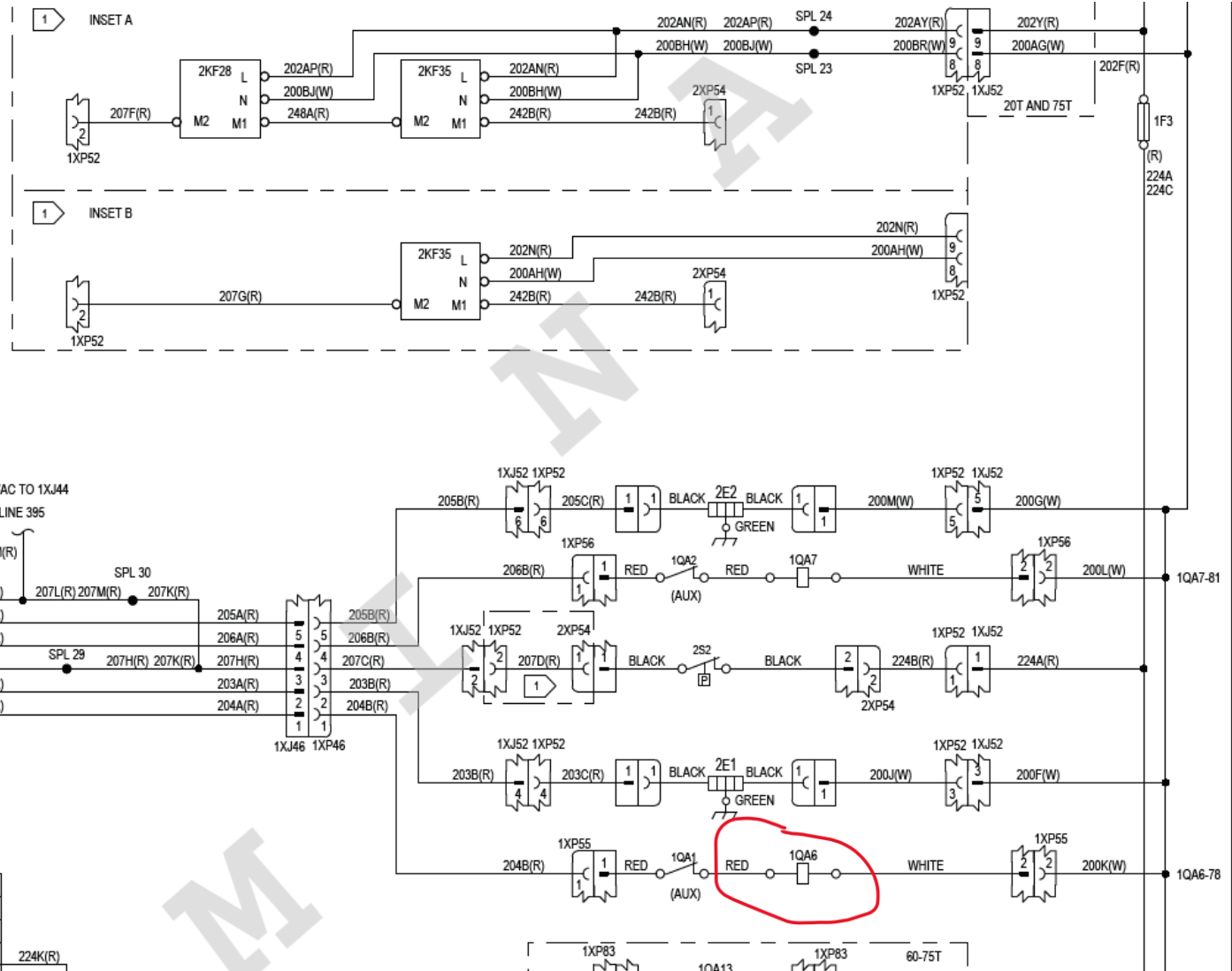
Testing The Safety Circuit

A test that can be done is to

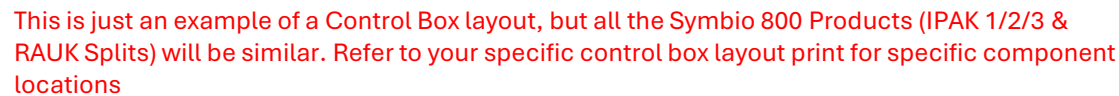
1.) Power down the unit and Disconnect the plug for the load of the particular compressor circuit you're testing

2.) Insert a Jumper into the J2 pin 3 to pin 1 (testing Compressor 1A in this example if Ckt it would be the 1KF5 module)

3.) Power on the unit and verify that the Compressor contactor pulls in and you're getting continuity on the 1KF4 proving input in the correct spot...if you are then there could be compressor control or proving module issue. If not then check the things in the first slide



RELEASED 01/SEP/2044 13:44:50 GMT



The 1XP52/53
plug in this area

REF DES	LEGEND	LINE NO
1F2	FUSE - CONTROLS TRANSFORMER	788
1F4	FUSE - COMPRESSOR CIRCUIT #1	789
1F5	FUSE - COMPRESSOR CIRCUIT #2	790
1F6	FUSE/BLK - SUPPLY FAN VFD #1	802
1F7	FUSE/BLK - SUPPLY FAN VFD #2	803
1F10	FUSE/BLK - CONDENSER FAN CIRCUIT 1	793
1F11	FUSE/BLK - CONDENSER FAN CIRCUIT 2	795
1F12	FUSE - COMPRESSOR CIRCUIT #3	791
1F17	FUSE - SPAC TRANSFORMER PRIMARY	792
1F18	FUSE - TRANSFORMER SECONDARY	794
1F19	FUSE/BLK - POWER METER	800
1F30	FUSE/BLK - PHASE METER	801
1M2	TEMP MONITOR	785
5P1	UNIT CONTROLS MODULE (ECM)	810
5P2	UNIT CONTROLS MODULE (ECM)	811
5P3	LLD (HARD) - CONDENSER FAN CIRCUIT #1	804
5P4	LLD (HARD) - CONDENSER FAN CIRCUIT #2	805
5P5	LLD (HARD) - CONDENSER FAN CIRCUIT #3	806
5P6	LLD (HARD) - CONDENSER FAN CIRCUIT #4	807
5P7	LLD (HARD) - CONDENSER FAN CIRCUIT #5	808
5P8	LLD (HARD) - CONDENSER FAN CIRCUIT #6	809
5P9	LLD (HARD) - ZONE SENSE	812
5P10	LLD (HARD) - ZONE CONTROL	799
5P12	LLD (HARD) - VENTILATION FAN CIRCUIT	796
5P13	LLD (HARD) - VENTILATION FAN CIRCUIT	797
5P14	LLD (HARD) - VENTILATION FAN CIRCUIT	798
5P15	LLD (HARD) - VENTILATION FAN CIRCUIT	799
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DESIGNER:	R. JOHNSON
ENGINEER:	S. MCKINLEY
TRANE @ DATE:	2 FEB 2022
REPLACES:	
SIMILAR TO:	

TRANE®

THIS DRAWING IS PROPRIETARY
AND SHALL NOT BE COPIED OR
ITS CONTENTS DISCLOSED TO

IPAK 1
COMPONENT LAYOUT
20-75T MAIN C-BOX / LOW VOLTAGE PANEL