

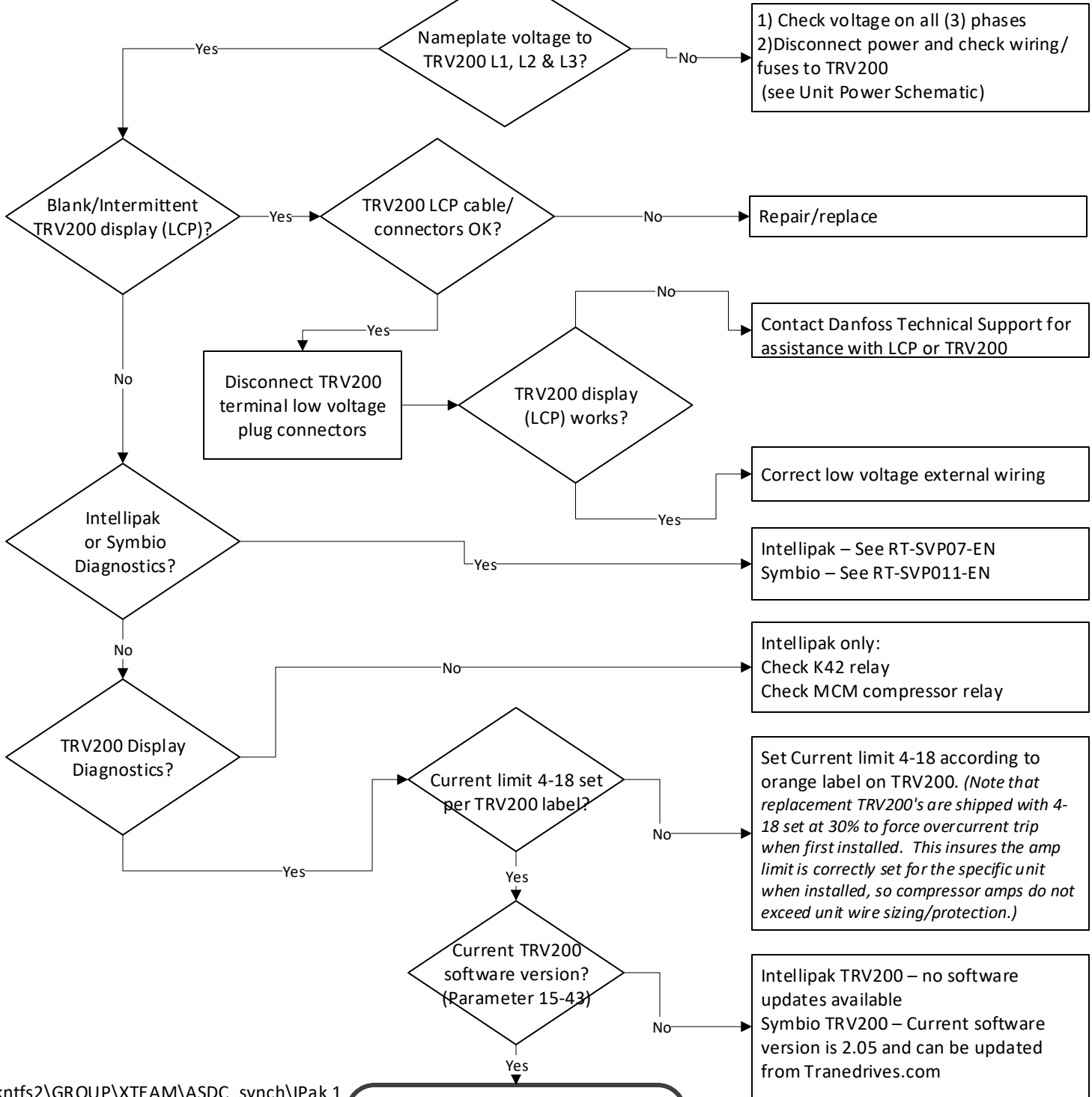
Intellipak VZH/TRV200 Troubleshooting

Available Diagnostics:

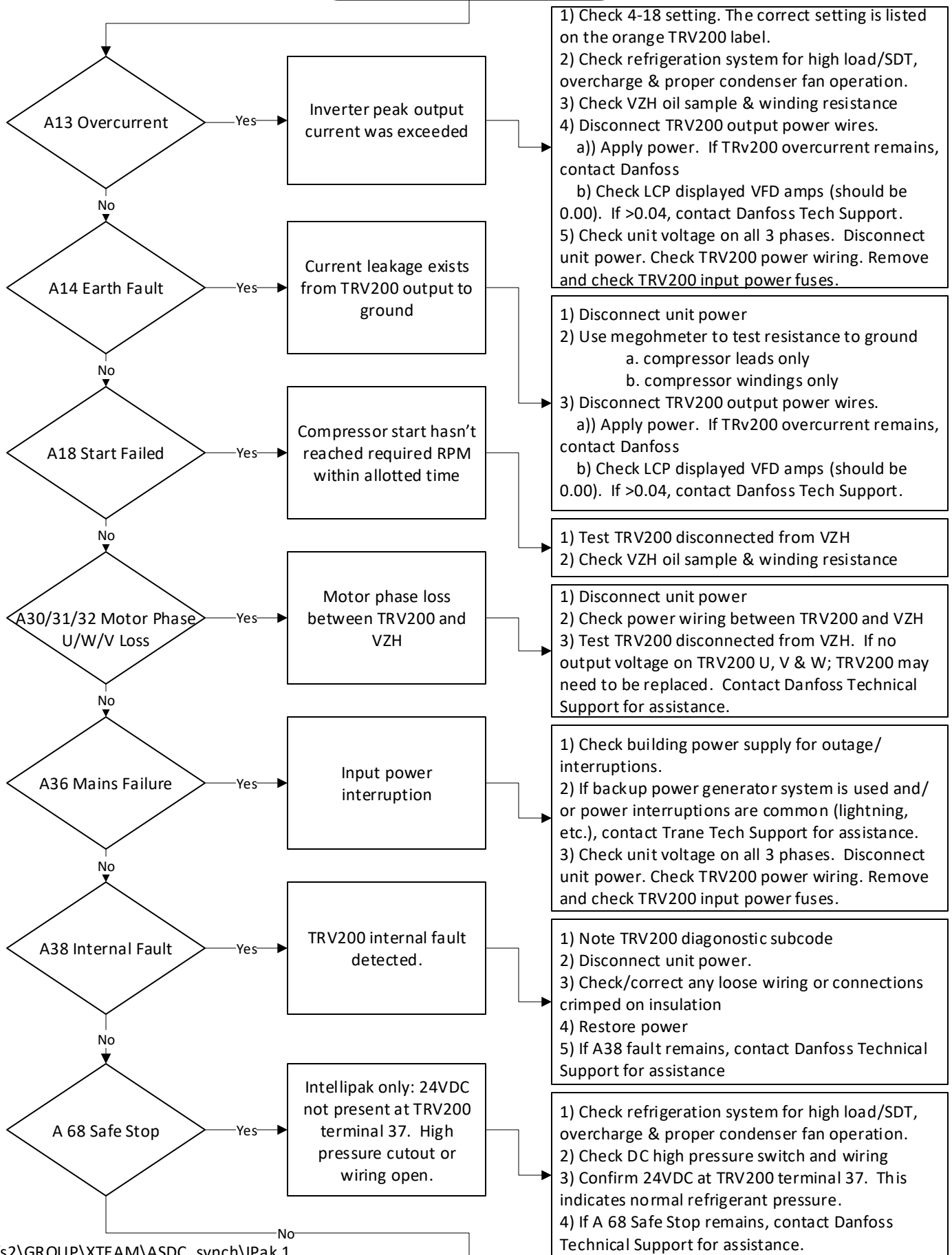
TRV200 – Record active diagnostics/alarms at TRV200 display (LCP). Symbio displays some TRV200 diagnostics.

Intellipak Controls – Record active diagnostics at Intellipak Human Interface (HI) display.

Symbio Controls – Record active diagnostics at Touch Screen. Using TU generate an equipment service report and retrieve data recorder files. If running equipment while at the job, retrieve files again before leaving.

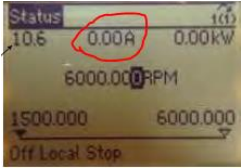


Check TRV200 Diagnostics

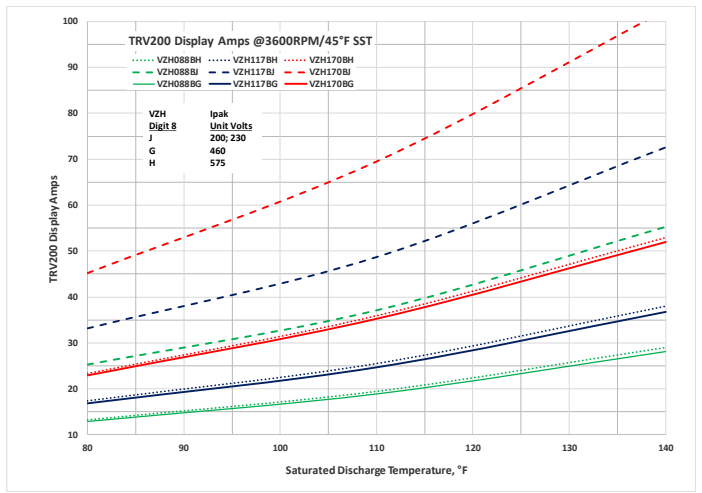


Check VZH Compressor

- 1) Run VZH 5-10 minutes @3600RPM, ~45°F SST
- 2) Check TRV200 Display (LCP) amps



TRV200 display amps more than 10% above correct line on chart?



Compressor	RW (Ohm)	RLA (A)	MMT (A)	
200 - 240 Volt	VZH088-J	0.03	74.8	93.5
	VZH117-J	0.02	88.0	110.0
	VZH170-J	0.01	115.0	143.8
380 - 480 Volt	VZH088-G	0.10	37.5	46.9
	VZH117-G	0.08	44.0	55.0
	VZH170-G	0.05	61.0	76.3
525 - 600 Volt	VZH088-H	0.10	37.5	46.9
	VZH117-H	0.08	44.0	55.0
	VZH170-H	0.05	61.0	76.3

RW: Winding resistance per winding (in CDS303 parameter list)
 RLA: Rated load current
 MMT: Maximum must trip current
 Note that parameter 1-30 in the frequency converter settings reflects the winding resistance per winding. This is not the same value as measured at the motor terminals.

- 1) Disconnect unit power
- 3) Disconnect TRV200 output power wires.
- 4) Power unit to check TRV200 displayed amps (should be 0.00). If >0.04, contact Danfoss Tech Support.

Winding resistance +/- 10% shown in table?

Insulation resistance >0.5 MegaOhm?

Oil black, contains debris, or smells burnt?

Compressor starts and runs

Intermittent TRV200 Trip locks may be caused by wiring or TRV200 problems. Contact Danfoss Technical Support for assistance.

If any doubt, contact Trane Technical assistance before replacing compressor

Insulation resistance test between phases and ground, with an insulation tester:

- Remove the power from the compressor
- Measurement is done between:
 - o the compressor terminals (T1, T2, T3; one after the other), connected to high voltage terminal of the insulation tester
 - o the ground terminal (chassis), connected to low voltage terminal of the insulation tester
- When applying 500V, the resistance values should not go below 0.5 MegaOhm

Do not use a megohm meter nor apply power to the compressor while it is under vacuum as it may cause internal damage