

Example: Centrifuge Motor

As Found: Resistance Imbalance 3.08%

ALL-TEST PRO MOTOR GENIE® Condition Calculator™ - Report Jul 6, 2022, 02:21 PM

Motor ID: CENTRIFUGE
Test Date: Jul 6, 2022, 02:21 PM

	T1	T2	T3	Conclusion
Resistance:	21	22	22	3.08
Impedance:	9.89	9.72	10.7	5.91
I/F:	-39	-39	-39	0.0
Phase Angle:	58	57	58	1.0

Phase Balance: 500 megaOhm
Test Volt: 500
Test Freq: 200
Rotor Comp: No
Direct Test: No

Findings: - Check for loose connections
- Recommend check at motor if tested from MCC

As Left: Resistance Imbalance Zero
Absolute Resistance dropped by 0.21 Ohms.

ALL-TEST PRO MOTOR GENIE® Condition Calculator™ - Report Jul 6, 2022, 05:31 PM

Motor ID: CENTRIFUGE
Test Date: Jul 6, 2022, 05:31 PM

	T1	T2	T3	Conclusion
Resistance:	0.00	0.00	0.00	0.0
Impedance:	9.97	9.82	10.8	5.92
I/F:	-39	-39	-39	0.0
Phase Angle:	58	57	58	1.0

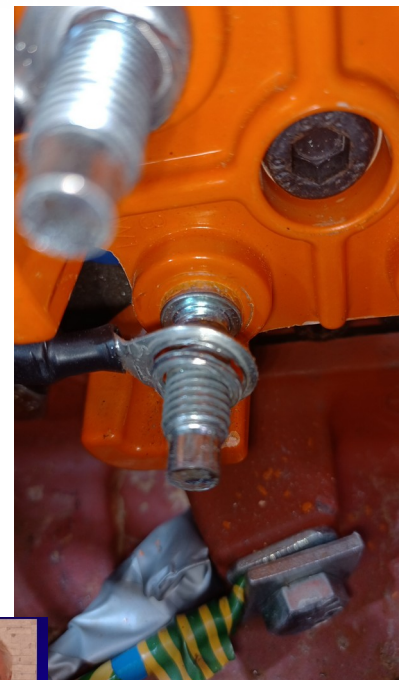
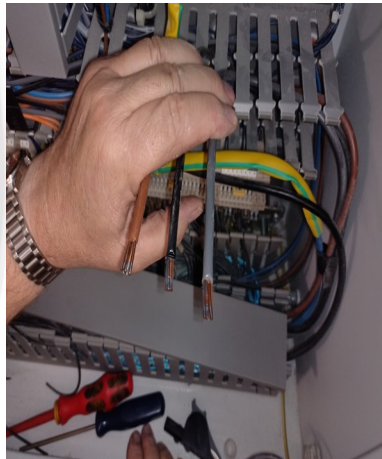
Phase Balance: 500 megaOhm
Test Volt: 500
Test Freq: 200
Rotor Comp: Yes
Direct Test: Yes

Findings: - Possible winding fault. See manual

I^2R 75 Rated Amps 0.22 Resistance 3712 Watts
estimate 60% Loss 2227 Watts

3563 Pounds Loss per Annum in I^2R losses.

Defects Fixed: Lug size incorrect, Loose Connection at Motor, Loose connection at Drive (Burnt Cable), Lug extruded, Crimping High Resistance and Lug arrangement incorrect.



<http://www.3Phi-Reliability.com/blog>

