Report TitleAnnual Motor Diagnostics ReportSubmitted ByChris SenterCreate Date07/24/21 10:04 AMAsset NameLow Vacuum pump fanDescriptionUSG



- EVERY DAY SINCE 1945

Test Date 08/01/20 07/20/21 Test Time 11:18 AM 2:17 PM Test Coation Of Fuses Local Disc Bottom Fuses Tester Serial 5095 5095 Map ID	Date: 07/20/21 2:17 PMDated Test Event			Test: Polarization Index Test
Test Location Of Fuses Local Dis Bottom Fuses Tester Serial 5095 5095 MTap ID	Test Date	08/01/20	07/20/21	
Tester Serial 5095 5095 MTap ID	Test Time	11:18 AM	2:17 PM	400.00
Baseline 100.00 Charge Time 600 600 Voltage 500 1000 Motor Temp 24 30 Corrected Mohm 787.84 308.85 Corrected Mohm 787.84 308.85 Corrected Mohm 260.00 154.00 pF Ph 1 to Ground 40400 42100 ohm Ph 1 to 2 0.05780 0.05780 ohm Ph 3 to 1 0.05770 0.05760 mH Ph 3 to 1 0.05770 0.05760 mH Ph 3 to 1 3.018 2.865 Average Inductance 2.975 2.987 % Ind Inbalance 0.17 0.29 D/A Ratio 1208 1.045	Test Location	Of Fuses Local Disc	Bottom Fuses	
Baseline 100.00 Charge Time 600 600 Voltage 500 1000 Motor Temp 24 30 Corrected Mohm 787.84 308.85 Corrected Mohm 787.84 308.85 Corrected Mohm 260.00 154.00 pF Ph 1 to Ground 40400 42100 ohm Ph 1 to 2 0.05780 0.05780 ohm Ph 3 to 1 0.05770 0.05760 mH Ph 3 to 1 0.05770 0.05760 mH Ph 3 to 1 3.018 2.865 Average Inductance 2.975 2.987 % Ind Inbalance 0.17 0.29 D/A Ratio 1208 1.045	Tester Serial	5095	5095	
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Voltage 500 1000 Motor Temp 24 30 Measured Mohm 787.84 308.85 Corrected Mohm 260.00 154.00 pF Ph 1 to Ground 40400 42100 ohm Ph 1 to 2 0.05780 0.05780 ohm Ph 2 to 3 0.05790 0.05760 mH Ph 3 to 1 0.05770 0.05760 mH Ph 3 to 1 3.018 2.685 Average Inductance 2.975 2.987 % Ind Imbalance 0.17 0.29 % Ind Imbalance 9.29 10.82	Frequency	1200	1200	
Voltage 500 1000 Motor Temp 24 30 Measured Mohm 787.84 308.85 Corrected Mohm 260.00 154.00 pF Ph 1 to Ground 40400 42100 ohm Ph 1 to 2 0.05780 0.05780 ohm Ph 2 to 3 0.05790 0.05760 mH Ph 3 to 1 0.05770 0.05760 mH Ph 3 to 1 3.018 2.685 Average Inductance 2.975 2.987 % Ind Imbalance 0.17 0.29 % Ind Imbalance 9.29 10.82	Charge Time	600	600	ى
Motor Temp 24 30 Measured Mohm 787.84 308.85 Corrected Mohm 260.00 154.00 pF Ph 1 to Ground 40400 42100 ohm Ph 1 to 2 0.05780 0.05780 ohm Ph 2 to 3 0.05770 0.05760 mH Ph 1 to 2 3.208 Test Date 08/01/20 07/20/21 mH Ph 2 to 3 2.699 3.088 Motor Temp Masses Mm Ph 3 to 1 3.018 2.685 Motor Temp Masses Average Inductance 0.17 0.29 10.82 % Ind Imbalance 0.17 0.29 10.82	Voltage	500	1000	
Corrected Mohm 260.00 154.00 pF Ph 1 to Ground 40400 42100 ohm Ph 1 to 2 0.05780 0.05780 ohm Ph 2 to 3 0.05790 0.05760 ohm Ph 3 to 1 0.05770 0.05760 mH Ph 1 to 2 3.209 3.208 mH Ph 3 to 1 3.018 2.665 Average Inductance 2.975 2.987 % Res. Imbalance 0.17 0.29 % Ind. Imbalance 9.29 10.82	Motor Temp	24	30	
Corrected Mohm 260.00 154.00 pF Ph 1 to Ground 40400 42100 ohm Ph 1 to 2 0.05780 0.05780 ohm Ph 2 to 3 0.05790 0.05790 ohm Ph 3 to 1 0.05770 0.05760 mH Ph 1 to 2 3.209 3.208 mH Ph 2 to 3 2.699 3.089 mH Ph 3 to 1 3.018 2.665 Average Inductance 2.975 2.987 % Res. Imbalance 0.17 0.29 % Ind. Imbalance 9.29 10.82	Measured Mohm	787.84	308.85	Date: 07/20/21 2:17 PMDated Test Event
Image: production of the second of	Corrected Mohm	260.00	154.00	
ohm Ph 1 to 2 0.05780 0.05780 0.05780 ohm Ph 2 to 3 0.05790 0.05790 Test Time 11:18 AM 2:17 PM ohm Ph 3 to 1 0.05770 0.05760 Test Location Of Fuses Local Dis Bottom Fuses mH Ph 1 to 2 3.209 3.208 MTap ID 5095 5085 mH Ph 3 to 1 3.018 2.665 MTap ID Baseline Average Inductance 2.975 2.987 Duration 600 600 % Ind Imbalance 0.17 0.29 D/A Ratio 1.209 1.045	pF Ph 1 to Ground	40400	42100	
ohm Ph 2 to 3 0.05790 0.05790 0.05790 Test Location Of Fuses Local Dis Bottom Fuses ohm Ph 3 to 1 0.05770 0.05760 Tester Serial 5095 5095 mH Ph 1 to 2 3.209 3.208 MTap ID Baseline 1000 mH Ph 3 to 1 3.018 2.665 2.987 Duration 600 600 % Ind Imbalance 0.17 0.29 10.82 D/A Ratio 1.209 1.045	ohm Ph 1 to 2	0.05780	0.05780	
ohm Ph 3 to 1 0.05770 0.05760 mH Ph 1 to 2 3.209 3.208 mH Ph 2 to 3 2.699 3.089 mH Ph 3 to 1 3.018 2.655 Average Inductance 2.975 2.987 % Ind Imbalance 0.17 0.29 % Ind Imbalance 9.29 10.82	ohm Ph 2 to 3	0.05790	0.05790	and the second
mH Ph 1 to 2 3.209 3.208 MTap ID mH Ph 2 to 3 2.699 3.089 mH Ph 3 to 1 3.018 2.665 Average Inductance 2.975 2.987 % Res. Imbalance 0.17 0.29 % Ind Imbalance 9.29 10.82	ohm Ph 3 to 1	0.05770	0.05760	
mH Ph 2 to 3 2.699 3.089 Baseline mH Ph 3 to 1 3.018 2.665 Voltage 500 1000 Average Inductance 2.975 2.987 Duration 600 600 % Res. Imbalance 0.17 0.29 D/A Ratio 1.045	mHPh1 to2	3.209	3.208	
Average Inductance 2.975 2.987 Duration 600 600 % Res. Imbalance 0.17 0.29 D/A Ratio 1.045	mHPh2 to 3	2.699	3.089	
Average inductance 2.973 2.907 Description Control Contro Control Control	mHPh 3 to 1	3.018	2.665	Voltage 500 1000
% Res. Imbalance 0.17 0.29 % Ind Imbalance 9.29 10.82	Average Inductance	2.975	2.987	Duration 600 600
% Ind Imbalance 929 10.82	10.09	0.17	0.29	
	% Ind. Imbalance	9.29	10.82	United

1.112

Polar. Index

1.057

Remarks:

The motor has not changed much since last test. It is in ok condition. The P.I test is a bit lower than last year, when the P.I test drops below 1 I will recommend changing the motor.