

Motor Circuit Analysis



MCE testing can help reduce unforeseen failures such as:

- 1 Failures of insulation between the winding and the core
- 2 Winding failure Phase to Phase
- 3 Failure in a stator winding at the connection
- 4 Winding Failure to ground
- 5 Failure of conductors leading to the motor
- 6 Winding imperfections with AC and DC Motors

A simple test to let you know what is going on inside your motor without removing it or disassembly. Testing can be performed on AC or DC Motors, including wound rotor and Synchronous. Readings can normally be taken at the controls without disconnecting leads at the motor.

		MCE Testing			SPINA ENTERPRISES								
		Capacitance	Resistance			Resistive Imbalance	Inductance			Inductive Imbalance	Megger Reading	PI	
			1 to 2	2 to 3	3 to 1		1 to 2	2 to 3	3 to 1				
EAF	Motor Name	Date Tested											
	Baghouse East Main Exhaust Fan	1/12/2022	180,900	0.1284	0.1280	0.1268	2.00%	5.630	5.550	5.015	5.94%	1,600	6.020
	Baghouse South Main Exhaust Fan	1/12/2022	176,500	0.1277	0.1294	0.1175	0.20%	4.795	4.790	4.750	0.18%	675	3.940
	Baghouse North Main Exhaust Fan	1/12/2022	178,200	0.1238	0.1218	0.1216	0.11%	5.270	5.290	5.270	0.13%	720	3.312
EAF Hydraulic Pumps	[EAF] Hydraulic Pump #1	1/12/2022	23,600	0.0510	0.0810	0.0605	0.01%	1.450	1.450	1.450	0%	8,800	1.984
	[EAF] Hydraulic Pump #2	1/12/2022	24,300	0.0791	0.0791	0.0791	0%	1.425	1.425	1.420	0.23%	2.8	1.946
	[EAF] Hydraulic Pump #3	1/12/2022	22,500	0.0909	0.0906	0.0907	0.16%	4.330	4.375	4.885	0.24%	8,400	1.894

Clear and readable reports. Color Coded to take the guesswork out of preventative maintenance.

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