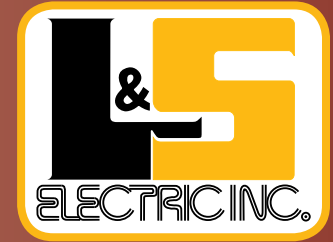


Online Motor Testing



Dedicated People, Quality Products,
and Above All, Service.

Our experienced technicians use innovative technology for online monitoring of power circuit issues and overall motor health, load, and performance, giving you a comprehensive look at the overall integrity of your motor.

Using the online motor testing equipment, L&S Electric provides root-cause analysis by separating the mechanical and electrical issues. Along with any three-phase induction motor, it will also monitor the activities of Variable Frequency Drive (VFD) applications.

L&S Electric's on-line capabilities create an accurate assessment of operating load conditions over time. Results are immediate and show operating efficiencies allowing you to determine the true cost of wasted energy.

Comprehensive Motor Analysis

- Identifies possible power circuit problems that degrade motor health
- Examines overall motor power conditions
- Monitors the load and observes motor performance
- Estimates energy savings

VFD Monitoring

- Shows how frequency, speed, torque, and voltage level vary with respect to time
- Enables identification of transient overloading of the motor by the VFD
- Provides the ability to identify and repair poorly tuned speed feedback

Advanced Data Collection

- Save individual motor results, critical for any predictive maintenance program
- Generate reports quickly and easily



Machine Performance Report

L&S ELECTRIC INC. EXPLORER Time/Date: 2/08/2009 10:09:29 AM
 Database: Database 01
 Test Model: default elec
 Memo: PT circuit open delta

Location: _____ Test By: Power Service Tech
 Building: _____ Test For: Customer Name
 Machine: SG04 -DFDN-11 Serial No.: 1508

HP: 1500.00 Manufacturer: _____
 KW: 1119.00 RPM: 594
 Volts: 6600 Amps: 135.60
 Serv. Fact.: 1.15 Stator Res. (L-L): 0.00E+0 Ohms
 Frame: _____ Insulation: _____

Speed (RPM): 595.0 Torque Ripple (%): 3.94 Load (%): 71.6 Efficiency (%): 95.4

Test	Value	Caut. Level	Warn. Level	Status
Over Voltage	6.88	10.00	20.00	Good
Voltage Unbalance	0.36	2.00	3.50	Good
Harm. Distortion	1.04	7.00	9.00	Good
Total Distortion	1.14	10.00	12.00	Good
Over Current	79.01	110.00	120.00	Good
Eff. Serv. Factor	0.72	1.10	1.25	Good
Rotor Bar	-67.37	-45.00	-36.00	Good
Op. Condition	0.00	20.00	30.00	Good
Losses	37.86	N/A	N/A	N/A
Payback	0.00	N/A	N/A	N/A

Main Panel Energy Assessment
 Power Condition Report Machine Performance Report
 Machine Condition Report Load Reports



SCHOFIELD
715.359.3155 or 800.283.8332

DULUTH
218.729.3375 or 800.943.9549

APPLETON
920.730.0203 or 800.283.5564

MENOMINEE
906.864.2500 or 800.864.2507

STURTEVANT
262.886.1875 or 800.367.7676

MINNEAPOLIS
763.780.3234 or 800.290.9320

ROTHSCHILD
715.359.3155 or 800.283.8332

HYDRO SOLUTIONS
715.359.3155 or 800.283.8332