SKF Dynamic Analyzer EXP4000 Tool to be used for Online Motor Condition Monitoring & Testing and also for Transformers

Maintenance professionals need to minimize costs associated with unexpected motor failures and production downtime. The SKF Dynamic Motor Analyzer EXP4000 is a motor monitoring and troubleshooting tool that helps maintenance personnel to minimize failures and maximize the uptime of machine systems that drive their businesses.

The EXP4000 is not a motor insulation tester. Instead, it uses advanced software algorithms to monitor and assess conditions across a motor/machine system that impact the health and performance of the motor within the system. It evaluates the quality of power fed to a motor, asseses motor performance indicators, and tracks the amount and condition of load placed on the motor. This visibility across a given machine system – into power, motor and load – makes the EXP4000 a powerful predictive maintenance and troubleshooting solution.

The EXP4000 is designed for rigorous use by maintenance personnel in the field. Whether plugged into a power source or running on its batteries, it can be taken into industrial environments to monitor motors while they are in operation. The analyzer can be connected at a motor junction box, at the instrumentation cabinet, from inside of a motor control cabinet (MCC), or from the outside of an MCC equipped with an SKF Dynamic Motor Link - EP1000.

Organizations often find maintenance staff at odds over the root causes of a given motor problem. Many mechanical engineers tend to blame the problem on an electrical issue, while electrical engineers will often contend the same problem is mechanical. The EXP4000 is an effective troubleshooting tool, and clearly detects when a problem is either electrical (e.g., when it involves an issues within the motor, or power quality) or mechanical (such as an over-load, or poor application of the motor). It is also a powerful predictive maintenance tool that tracks multiple data types to identify trends that indicate potential problems. Such trends can also be used to troubleshoot an issue to avoid any recurrance of the problem with the same machinery.

The bottom line is that the EXP4000 can help maintenance organizations avoid costly unnecessary downtime by identifying trends and by isolating the root causes of underperforming or malfunctioning equipment