PdMA® CORPORATION A Leader in Electric Motor Testing

Tip Of The Week

November 17, 2014

Trending Average Inductance

Inductance is the property of a conductor in which a change in current flowing through the conductor induces a voltage in the both the conductor itself (self-inductance) and other conductors nearby (mutual inductance). To detect rotor anomalies in a motor, measuring and recording the inductance of each phase and calculating the average for trending purposes can be a valuable data point. Individual phase inductance can change with rotor position creating a false condition alarm where the average inductance will stay relatively constant. Any change in rotor cage impedance or permeability however, will have an immediate and noticeable impact on average inductance bringing the right attention at the right time for detection of early stage rotor anomalies.

You are invited to submit an Electric Motor Testing Tip of your own and receive a free PdMA® mug or hat if we publish it! Contact Lou at 813-621-6463 ext. 126 or lou@pdma.com.