



A Leader in Electric Motor Testing

Tip Of The Week

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Motor Storage Tips: Part 3

Proper motor storage is critical if we hope to achieve normal life expectancy from our electric motors. Not only is proper motor storage important for good motor health, it may be required to maintain a warranty on motors that we purchase. The last tip (Motor Storage Tips: Part 2) focused on Storage Maintenance. This week we will focus on Installation Preparation.

Installation Preparation:

- Perform full offline MCE testing on motor in storage paying special attention to insulation resistance-to-ground (RTG) to verify insulation condition has not decayed or become contaminated with moisture. One thumb rule says a drop of 50% from your original measured RTG in storage indicates a likely moisture intrusion. If moisture is suspect initiate a drying procedure before starting.
- Remove old grease and oil and replace with new lubricant in accordance with motor manufacturer guidelines.
- Clean off dust and dirt and remove any anti-corrosive agent from surfaces.
- Inspect commutator/sliprings and re-insert brushes. Verify brushes move freely in holder.
- Re-install shipping brace before moving motor from storage.
- Perform offline MCE testing on power cables before and after connecting motor to confirm the health of your Power Circuit.
- Capture In-Rush/Start-Up test on initial start to confirm health of Power Quality.
- Capture all EMAX running tests at load to confirm Stator, Rotor, and Air Gap conditions.
- Perform Vibration analysis test at load to confirm bearing, mechanical, and machine train condition.

Refer to motor manufacturer guides for additional details on motor storage.

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. 166 or lou@pdma.com.