OEM Installation Guidelines and Best Practices for

HELWIG CARBON PRODUCTS, INC.

Bearing Protection Kits

When installing a Bearing Protection Kit (BPK) to protect motor bearings or other equipment susceptible to discharges as a result of Common Mode or other sources, several guidelines must be followed to ensure the kit is installed correctly for optimal life and performance.

For ALL Installations:

- Ensure that the brush track is clear from any key, keyway, oils, debris, etc.
- Ensure the shaft has a surface finish between 8 and 63 RMS (standard motor shaft finish).
- Verify the electrical/mechanical ground connection between the motor and drive is secure and uninterrupted. Verify that the motor is properly connected to ground per NEMA standards.
- Adjust kit until perpendicular to shaft, use the red Retaining Clip to set shaft-to-BPK distance.
- When an insulated bearing is used, the BPK should be installed on the opposite end of the motor from the insulated bearing.
- Thread lock is okay to use if there is an electrical connection maintained between the mounting bolts and the motor frame.

Upkeep and Maintenance Recommendations:

It is recommended to do a visual follow-up inspection of the maintenance-free Bearing Protection Kit when the motor is put into service to ensure all the recommended installation guidelines were followed.

- Follow all included installation instructions.
- Visual inspection of the kit is recommended as part of the customer's routine maintenance schedule.
- For harsh or extreme applications, please contact Helwig Carbon for application-specific recommendations.

  *for optional performance verification, learn more about Helwig's BPK-Probe, the shaft voltage detection device. Visit www.helwigcarbon.com/shaft-voltage-detection-device/ for more information.

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