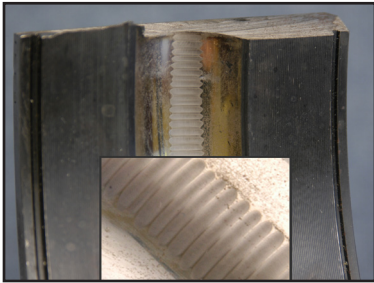


Protect Your Motor from Electrical Bearing Damage

PROBLEM:

VFD Induced Shaft Voltages Damage Bearings



Variable frequency drives (VFD) on AC and DC motors induce harmful electrical voltages on the motor shaft. Once these voltages exceed the resistance of the bearing lubricant, they discharge through the motor's bearings causing fusion craters, severe pitting, fluting damage, excessive bearing noise and eventually bearing failure.

fusion craters, severe pitting, fluting damage, excessive bearing noise and eventually bearing failure.

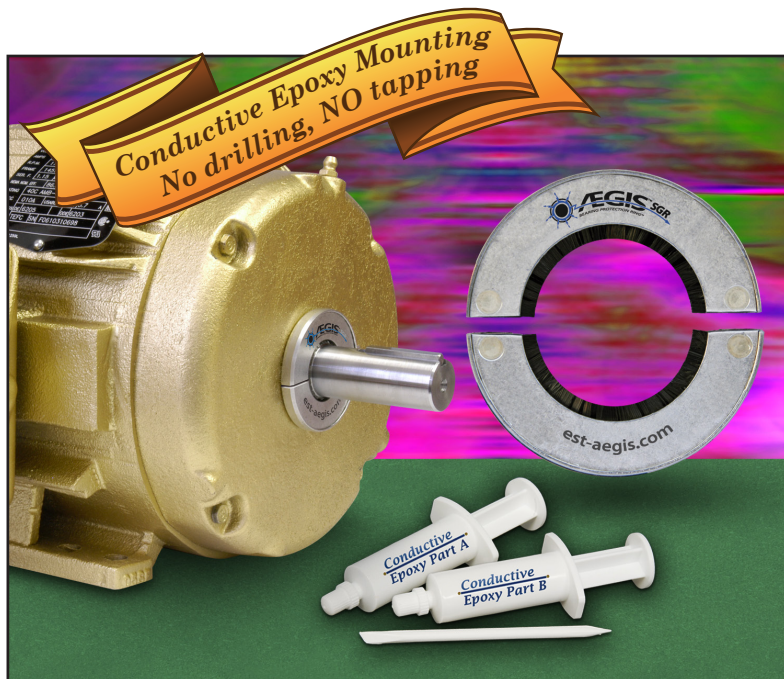
SOLUTION:

AGIS™ SGR - Electrical Bearing Damage Protection



The new AEGIS™ SGR Bearing Protection Ring prevents electrical bearing damage by safely channeling harmful shaft voltages away from the bearings to ground. Using proprietary Electron Transport Technology™, the conductive micro fibers

inside the AEGIS™ SGR provide the path of least resistance and dramatically extend motor life.



Features and Benefits

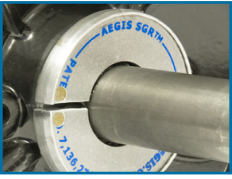


- **Protects** both motor bearings and the bearings in attached equipment
- **Channels harmful currents** to ground
- **Maintenance free** bearing protection for life-will last for the service life of the motor
- **Effective** in grease, oil, dirt or dust-conductive micro fibers "sweep" away contaminants from the shaft surface
- **Improves** system reliability and production with zero maintenance and lifetime bearing protection

Authorized Distributor or Installer:

McQuay®
Air Conditioning
Certified Parts

1-800-377-2787
www.mcquay.com



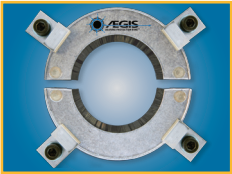
Conductive Epoxy Mounting

Shaft diameters: 0.311" to 6.02"
Solid and Split Ring / Conductive Epoxy Included
Quick and easy installation to metal motor frame



Standard Mounting Brackets

Shaft diameters: 0.311" to 6.02"
Ships with mounting brackets, screws and washers
Quick and easy installation to most surfaces



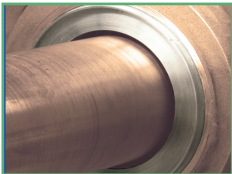
Split Ring

Shaft diameter: 0.311" to 6.02"
4 to 6 mounting brackets, screws and washers
Installs without decoupling motor



Bolt Through Mounting

Shaft diameters: 0.311" to 6.02"
M3 x 14 socket head cap screws and lock washers
2 mounting holes up to shaft size 3.895"
4 mounting holes for larger sizes



Press Fit Mounting

Shaft diameters: 0.311" to 6.02"
Clean dry 0.004" press fit
Custom sizes available



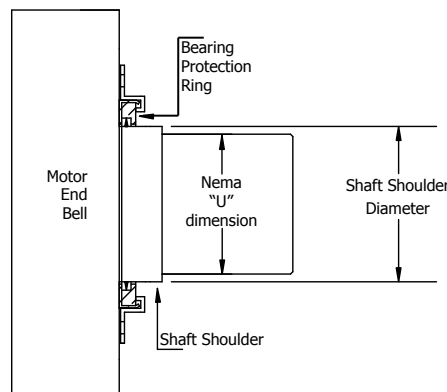
NEMA-IEC Motor SGR Kits Solid and Split Ring Design

Clears any slinger, shaft shoulder or protrusion
without decoupling equipment
Adjustable slots adapt to most end bells
Custom kits available for other shaft diameters

For shaft diameter greater than 6.02" please call for quote

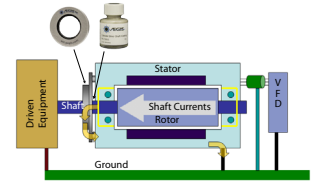
SELECTING THE RIGHT SIZE SGR FOR YOUR MOTOR

- Measure shaft diameter at a point 0.125" (3mm) from motor end bell.
- To select the correct SGR part number, refer to the SGR size chart.
- Note: If you have a slinger or a shaft shoulder that is less than 0.375" (9.5mm), you will need the NEMA kit.
- See catalog or website for more information



Motors up to 100 HP (75 kW)-horizontally mounted motors with single row radial ball bearings on both ends of the motor:

- Install one AEGIS™ SGR Bearing Protection Ring on either the drive end or the non-drive end of the motor.
- AEGIS™ SGR can be installed internally on the back of the bearing cap or externally on the motor end bracket.

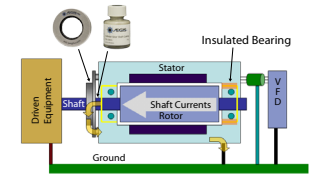


★ Recommend Colloidal Silver Shaft Coating PN CS015

Motors Greater than 100 HP up to 449T Frame Size

-horizontally mounted motors with single row radial ball bearings on both ends of the motor:

- Non-Drive End: Bearing housing must be insulated or use insulated ceramic or hybrid bearing to disrupt circulating currents.
- Drive End: Install one AEGIS™ SGR Bearing Protection Ring

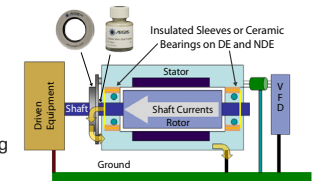


- AEGIS™ SGR can be installed internally on the back of the bearing cap or externally on the motor end bracket.

★ Recommend Colloidal Silver Shaft Coating PN CS015

All Motors Where Both Bearings are Insulated in Low or Medium Voltage Applications-horizontally mounted motors with single row radial ball bearings on both ends of the motor:

- Install one AEGIS™ SGR Bearing Protection Ring on either the drive end or the non-drive end of the motor to protect bearings in attached equipment (gearbox, pump, fan bearing and encoder, etc.).
- AEGIS™ SGR can be installed internally on the back of the bearing cap or externally on the motor end bracket.



★ Colloidal Silver Shaft Coating PN CS015 is required for this type of application

★ COLLOIDAL SILVER SHAFT COATING: PN CS015 NEW TECHNOLOGY

Improving the conductivity of the steel shaft surface enhances the shaft voltage discharge capability in AEGIS™ shaft grounding applications. Maintaining a highly conductive shaft surface is especially important in critical applications or in applications where the conductive shaft surface of steel could become compromised.

★ Recommended for all AEGIS™ SGR installations.

