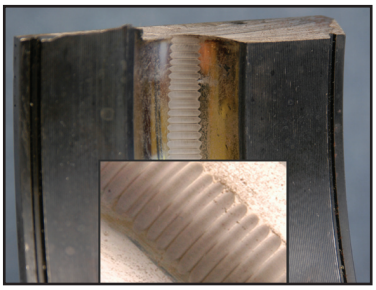
Protect Your Motor from Electrical Bearing Damage

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.

SOLUTION:

AEGIS™ 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

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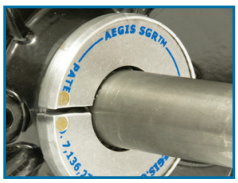
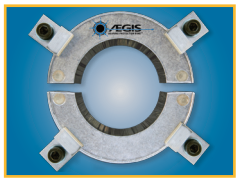
AEGIS™ SGR
BEARING PROTECTION RING



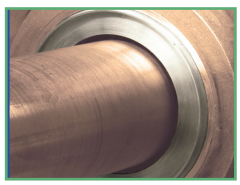
Conductive Epoxy Mounting
Shaft diameters: 0.311" to 6.02"
Solid and Split Ring / Conductive Epoxy Included
Quick and easy installation to metal motor frame

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

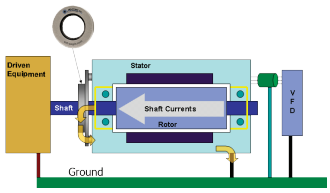


Press Fit Mounting
Shaft diameters: 0.311" to 6.02"
Clean dry 0.004" press fit
Custom sizes available

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

Motors up to 100 HP (75 kW)

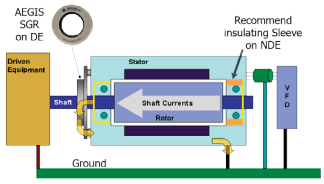
Install one AEGIS™ SGR Bearing Protection Ring on either the drive end or the non-drive end of the motor. The simplest installation is to slide the AEGIS™ SGR over the drive end and fasten it to the motor end bell with the easy to install mounting hardware included with each AEGIS™ SGR



★ Recommend Colloidal Silver Shaft Coating PN CS015

Motors 100 HP to 1000 HP (75 kW to 750 kW)

- Motor frame must be well grounded
- Non-Drive End: Bearing journal should be insulated or Insulated/Ceramic Bearing installed to disrupt circulating currents
- Install AEGIS™ SGR on opposite end of insulation and Insulated/Ceramic Bearing (usually DE)



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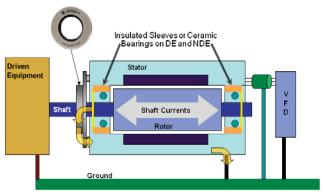
Critical Applications: Insulate both ends and add AEGIS™ SGR on one end

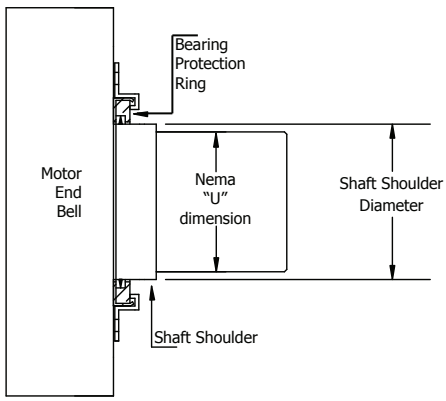
- Motor frame must be well grounded
- Drive and Non-Drive end: Bearing journals should be insulated or Insulated/ Ceramic Bearing installed to disrupt circulating currents
- Install AEGIS™ SGR on drive or non-drive end to provide path of least resistance for shaft voltages and to channel VFD induced currents to ground.



★ Coat shaft with Colloidal Silver Shaft Coating PN CS015

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



★ 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.

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