



Protecting VFD-Driven Motors from Bearing Damage

April 2011

Electro Static Technology

Specify AEGIS™ Installed... Inside or Outside!



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New From Baldor...Super-E® Motors with AEGIS™ Inside

Specifying AEGIS™ shaft grounding for motors controlled by VFDs is easier than ever. Baldor Electric, a leading manufacturer of such motors, now includes AEGIS™ shaft grounding rings as a standard feature on their Super-E® NEMA Premium® line of motors. These motors have AEGIS™ installed inside the housing at the factory and are available in models from 1-50HP for general purpose, HVAC, baggage handling, conveyor, and brake motor applications. Customers can choose a totally enclosed fan-cooled (TEFC) or open drip-proof (ODP) configuration.



To read more, [click here](#).



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McQuay Parts Now Offers “Green” Systems with AEGIS™ Bearing Protection Rings

In its efforts to “Go Green” by offering customers energy efficient and cost-saving upgrades and retrofits, McQuay Parts now offers the patented AEGIS™ Bearing Protection Ring. Manufactured by Electro Static Technology, the ring protects motors from harmful VFD-induced shaft currents that can destroy bearings, reduce system reliability, and wipe out any energy cost savings from the use of VFDs. By protecting motor bearings, AEGIS™ rings make these savings and the systems themselves truly sustainable.

McQuay is the first national HVAC manufacturer to sell AEGIS™ Rings through its part catalog. With distributors from coast-to-coast throughout the United States, McQuay has impressive reach and access to both contractors and end users. And with the addition of AEGIS™ Rings, McQuay can now provide customers with complete, packaged systems (including motor, variable frequency drive, and proven bearing protection) — systems that allow its customers to “Go Green” simply and painlessly.

For more information, [click here](#).





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Protecting VFD-Driven Motors in Hospitals and Healthcare Facilities

Many hospitals today are looking for ways to reduce energy consumption. One of the most promising involves the use of variable frequency drives (VFDs) to control the speed of HVAC motors. In fact, in such applications, VFDs have been shown to reduce energy consumption by 20 to 30%.

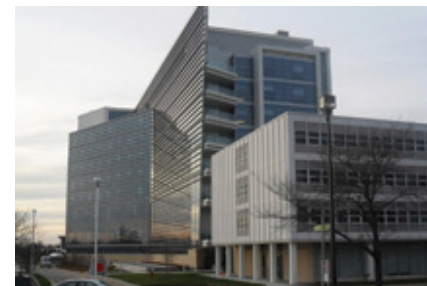
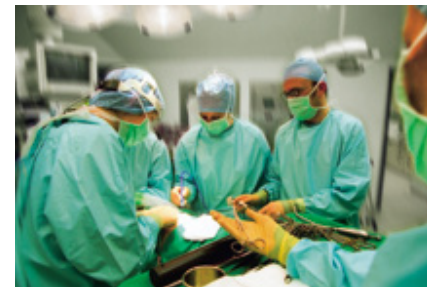
But VFDs can damage the motors they control. They induce currents on motor shafts that discharge through the bearings, causing pitting, fluting, and catastrophic motor failure. Without bearing protection, any savings from the use of VFDs can be quickly wiped out by the cost of replacing motors and by system downtime.

Northwest Community Hospital in Arlington Heights, Illinois, recently found a way to save energy with VFDs and to save their motors with AEGIS™ Shaft Grounding Rings.

By diverting bearing currents safely to ground, AEGIS™ SGR Shaft Grounding Rings ensure the reliable, long-term operation of VFD-driven motor systems, locking in energy savings and making these systems truly sustainable and truly green!

In fact, a recent field test of the AEGIS™ Ring at Northwest Community Hospital demonstrated the presence of high levels of damaging shaft currents on VFD-controlled HVAC motors. Once the AEGIS™ Bearing Protection Ring was installed, these currents were reduced to negligible levels, far below those that would damage bearings.

For a datasheet on protecting VFD-driven motors at hospitals and healthcare facilities from harmful shaft currents, [click here](#).



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NEW! Universal Kit Facilitates Installation of AEGIS™ Shaft Grounding Ring on Virtually any Motor

The AEGIS™ SGR Bearing Protection Ring protects the bearings of VFD-driven motors from electrical damage, and the new all-inclusive AEGIS™ Universal Mounting Kit (U-Kit) simplifies its mounting on virtually any AC motor shaft. Available from Electro Static Technology, the kit includes the proven AEGIS™ grounding ring and mounting hardware for most motor designs. Ordered based on the NEMA "U" shaft diameter, the kit contains the correct size ring for the motor and four styles of brackets with bolts and lock washers that can be used in various configurations, depending on the contours of the motor's end bracket.

For more information, [click here](#).



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