



Protecting VFD-Driven Motors from Bearing Damage

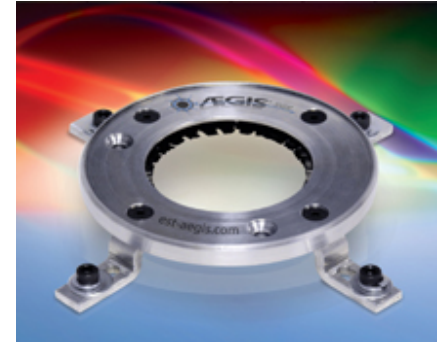
February 2011
Electro Static Technology

Using AEGIS™ to Improve Sustainability of HVAC Systems



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.



Available for delivery 1 March 2011.

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

[Download U-Kit Datasheet](#)

W22
Three-Phase Electric Motor
NEMA Technical Catalog

WEG Electric Corporation Offers AEGIS™ SGR Shaft Grounding Ring Option on W22 Electric Motor

Recognizing the growing demand for increased energy efficiency through the use of variable frequency drives and the need for the sustainability of these motors, WEG Electric recently introduced AEGIS™ Bearing Protection Rings as a factory-installed option in new WEG22 Three-Phase Electric Motors as well as a stock modification on any motor in their complete line.

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



[Download WEG Catalog](#)



[Download Datasheet](#)

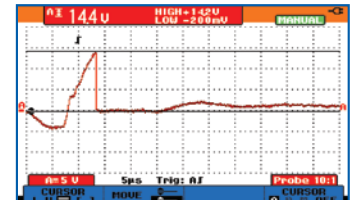
AEGIS™ Protects Motor Bearings at Milwaukee's Mitchell Field Airport

This informative Industry Application Sheet details the effectiveness of the AEGIS™ SGR in protecting motors at Mitchell Field from bearing damage from VFD-induced shaft currents. The charts on the right show oscilloscope readings from 2 conveyor motors at the airport -- before and after the installation of AEGIS™ rings.

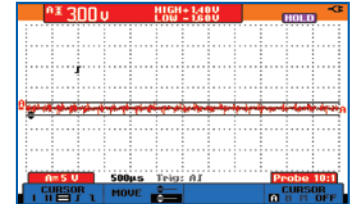
The application sheet also lists many uses for AEGIS™ SGR Bearing Protection Rings at airports in general.

To download a PDF, [click here](#).

Motor: 5 HP 184T

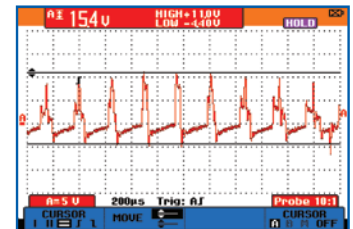


Without AEGIS™ SGR: 14.4 V peak-peak

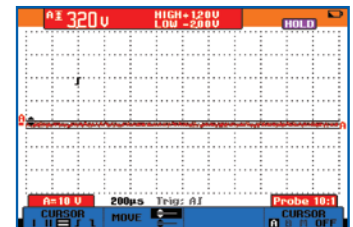


With AEGIS™ SGR: 3.0 V peak-peak

Motor: 1 HP 143T



Without AEGIS™ SGR: 15.4 V peak-peak



With AEGIS™ SGR: 3.2 V peak-peak



2011 Conference & Exhibition
Booth 526



Carousel Motor: 5 HP 184T

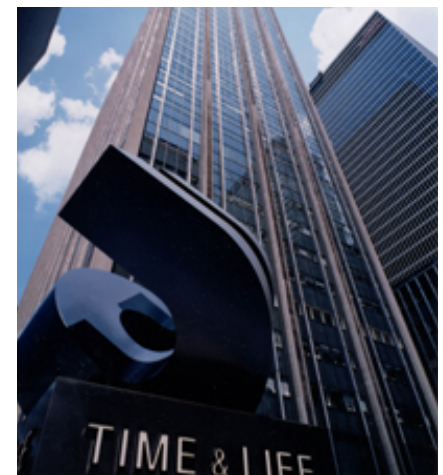


Conveyor Motor: 1 HP 143T

Installation of AEGIS™ SGR Bearing Protection Ring at Time Life Building

In their quests for improved energy efficiency and cost savings, many building owners are discovering that certain energy saving technologies - such as variable frequency drives (VFDs) - can create problems of their own. While VFDs save energy and money, they can induce unwanted currents on the shafts of the motors they control. Without a proven long-term grounding device, these currents can discharge through motor bearings, causing them to fail and wiping out any cost savings from the use of VFDs.

To find out how the owners of the Time-Life Building in New York City solved this chronic problem, [click here](#).



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