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INTRODUCTION

Stray voltages can occur on a rotating machine shaft as a result of induction from the switching of power electronics in an excitation system or from current-carrying brushes. These stray voltages can generate circulating currents which reduce machine efficiency and can damage shaft bearings and seals.

The Shaft Voltage Suppression Module reduces the risk of damage by shunting the high-frequency switching noise associated with the power bridge SCRs of an excitation system. This is accomplished by the Shaft Voltage Suppression Module's tuned shorting circuit. This RC network presents low impedance to the ac frequencies associated with power bridge SCR switching.

APPLICATION

A Shaft Voltage Suppression Module is specified according to the application's full-load field voltage. Part number 9199800100 is specified for field voltages up to 250 Vdc. Part number 9199800101 is specified for field voltages up to 375 Vdc.

Warning!

Field voltage will be present at the module terminals and components. Avoid contact with the module when the excitation system is energized.

MOUNTING

Shaft Voltage Suppression Modules are intended for installation in a suitable enclosure. A module is secured to a panel with user-supplied mounting hardware. Figure 1 shows the mounting dimensions for part number 9199800100 and Figure 2 shows the mounting dimensions for part number 9199800101. All dimensions are shown in inches with millimeters in parenthesis. The maximum mounting depth for part number 9199800101 is 4.26 inches (108.2 millimeters) and the maximum mounting depth for part number 9199800101 is 5.14 inches (130.4 millimeters).

CONNECTIONS

Typical Shaft Voltage Suppression Module connections are illustrated in Figure 3. Connections to module terminals should be made with wire no smaller than 14 AWG and no larger than 10 AWG. Torque applied to the module terminal screws should not exceed 16 inch-pounds (1.8 newton-meters).

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9199800990	Α		06/15	2015

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0.218 (6), four places -

Figure 1. Mounting Dimensions for P/N 9199800100

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Figure 2. Mounting Dimensions for P/N 9199800101







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