



IDEAL ELECTRIC Co.

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_____ **Aftermarket Service Department** _____

SERVICE BULLETIN

Ideal Electric provides an insulated bearing or insulated bearings on motors and generators in three different configurations. Each type of configuration is described below.

1. **Standard Insulated Bearing.** The opposite coupling-end bearing is insulated from the bearing housing customer connection points to the bearing housing or the exciter do not have to be insulated when making connections to bearing the inlet, the drain or electrical conduit connections.
CAUTION: The user should not make any connection directly onto the internal bearing shell as this could bypass the insulation, as when using a non-insulated “RTD”.
2. **Standard Insulated Bearing with Test Provisions.** The opposite-coupling-end housing is insulated from both the bearing bracket and the exciter frame. A test tab is provided to verify insulation integrity. All connections to the bearing housing must have insulating fitting installed. Connections to the exciter electrical conduits do not have to be insulated.
3. **Standard Insulated Bearing Both Ends.** Both bearings are insulated in this case. The exciter end bearing is insulated as in configuration 1. The drive end bearing housing is insulated from the bearing bracket. All connections to the drive end bearing housing must be insulated and an insulating coupling must be used between the driver and the driven equipment. A ground strap is provided between the bearing housing and the bearing bracket. This strap must always be in place when the motor or generator is in operation.

In all three configurations there is a nameplate attached to the machine near the bearing housing stating whether the bearing is insulated internally or the housing is insulated. There is also a note on the outline drawing for the project.

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