Inverter high voltage discharge

High-voltage inverter-driven motors, such as those found in EVs, are more prone to partial discharge phenomena. In general, partial discharge occurs when a voltage greater than ...

Partial-discharge (PD) testing has long been an important tool for assessing the condition of the high-voltage insulation in motor and generator stator windings. In the past ...

The DC-Link capacitor is a part of every traction inverter and is positioned in parallel with the high-voltage battery and the power stage (see Figure 1). The DC-Link capacitor has several ...

To control the voltage so that the voltage does not exceed 50 V (touch safe), the auxiliary power supply has to turn on and power up safety-relevant circuits that can discharge the DC link caps ...

RELAY 1 prevents leakage current in Disconnect Mode. SW1 is used to detect SHORT circuit on HV DC Bus. Capacitor is charging thru SW1 that is activated by MCU. When the HV DC Bus is ...

2 General Description The NXP EV Power Inverter Control Reference Platform provides a hardware reference design, system basic software, and a complete system functional safety ...

This study describes the design and implementation of a high-frequency resonant converter based on the transformerless half-bridge inverter topology. The transformer can be ...

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