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Title: Embedded Power Module Inverter

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Our inverter subassembly is the essential power device building block (brick) to control the electric drive via logic signals. Offering a flat design and easy to integrate into small spaces, this ...

The resulting Logic-Power module, with x/y dimension of only 3.5cm by 2.5cm and 4.5mm thickness, provides a monolithic and highly miniaturized component (Fig. 19).

With the automobile component suppliers Bosch and Vitesco, Fraunhofer IZM has developed an SiC inverter module for high-performance electric engines. This is the first power module for ...

An embedded drive circuit consists of an input rectifier, PFC boost stage and a three-phase output inverter. Depending on the application, the best ...

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By contrast, embedded drives use an internal inverter, which requires both the motor and the inverter to be water- and dustproof, ...

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By contrast, embedded drives install the inverter inside the motor housing, which requires both motor and inverter to be waterproof and dustproof, and this affects the system's ...

The popularization of 800V high-voltage platforms has posed unprecedented challenges to inverter PCBs. The high-voltage PCB ...

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Imperix power modules are building blocks for the rapid implementation of power inverter prototypes, as well as all sorts of power converters. They are notably ideally suited for modular ...

These modules integrate optimized gate drive of the built-in novel field stop 7th generation IGBT to minimize EMI and losses, while also providing multiple onmodule protection features ...

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