

## Automotive Three-Phase Inverter



Image courtesy of Saab Kockums.

This compact automotive power inverter unit features state-of-the-art IGBT technology with efficient liquid cooling and highly sophisticated, dense packaging of circuit boards and components. Its compact size and low weight make the PE31 ideal for use as power inverters of drive motors or generators in any medium- to large-category hybrid vehicles.

The embedded controller features high-speed digital field-oriented control, covers interfaces for various sensors and offers support for a variety of communication standards. It is appropriate for high-torque as well as for high-speed drives up to 800 VDC.

### KEY FEATURES

- Maximum power 300 kW
- Phase current: 450 A (peak)
- Volume: 14 dm<sup>3</sup>
- CAN J1939 communication

### ADVANTAGES

- Applicable for PM and induction motors and generators
- Ruggedized for military vehicles
- Power outputs are short-circuit protected
- Compact and lightweight
- Diagnosis and software download via CAN bus interface