

SAC40

Motor controller for vehicles and boats

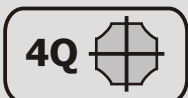
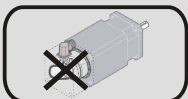
MAIN FEATURES

- State of the art technology
- Compact design
- Easy setup
- Sensorless vector control
- Speed or torque control
- Set-point value analog or via CAN bus
- Autotuning and self-test functions
- Battery management
- Liquid cooling



TECHNICAL CHARACTERISTICS

- | | |
|--------------------------|---------------|
| ■ Battery voltage | 96 V to 240 V |
| ■ Rated output current | 240 A |
| ■ Maximal output current | 280 A |
| ■ Rated power | 60 kVA |
| ■ Maximal power | 100 kVA |



Technical specifications

Electrical data

Supply voltage	96 V to 300 V
Output frequency	0 Hz to 400 Hz
Interfaces	<ul style="list-style-type: none">• CAN• RS232 interface for setup with the PC Software• Motor temperature monitoring (PTC)• HALL position sensor interface

Functions

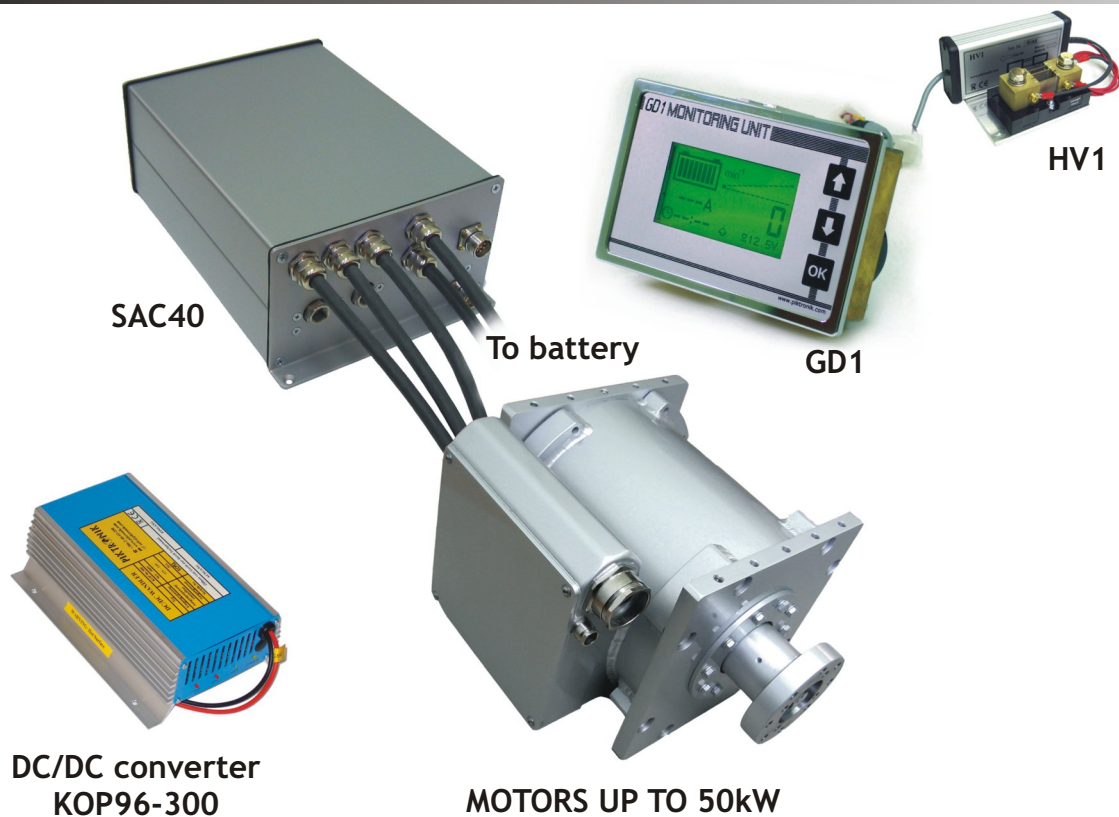
Control method	<ul style="list-style-type: none">• Sensorless vector control• Torque or speed control
Operating functions	Speed mode, torque mode, constant speed operation, EV mode, CAN bus operation (speed or torque mode)
Braking functions	Generator braking (at speed limit, with analog input or with brake input)
Protection functions	Undervoltage, overvoltage, overcurrent, thermal motor protection, overtemperature, protection against battery deep-discharge and over-charge
Motor types	Asynchronous motors, permanent magnet synchronous motors with or without hall sensors

Mechanical data

IP enclosure rating	IP54
Ambient temperature	-25°C to +60°C
Cooling type	Liquid (water or antifreeze)
Coolant temperature	-25°C (with non-freezing coolant) to 40°C (min flow 6 L/min)
Size (L x W x H) in mm	384 x 250 x 142
Weight (with cables)	12 kg

Optional accessories

- SACTERM setup, parametrization and diagnostics software
- GD1 display, control and battery monitoring unit



The desired performance features are binding only then if they were expressly agreed by contract.

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