

SAC41

Motor controller for vehicles and boats

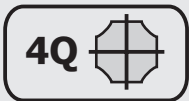
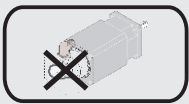
MAIN FEATURES

- 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 290 V |
| Rated output current | 240 A |
| Maximal output current | 280 A |
| Rated power | 80 kVA |
| Maximal power | 110 kVA |



Technical specifications

Electrical data

Supply voltage	80 V to 340 V (12 V to 15 V for control stage)
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) over CAN • HALL position sensor interface / Resolver interface (SSI)

Functions

Control method	<ul style="list-style-type: none"> • Sensorless vector control • Torque or speed control
Operating functions	Speed mode, torque mode
Braking functions	Generator braking
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
Coolant temperature	-25°C (with non-freezing coolant) to 40°C (min flow 6 L/min)
Size (L x W x H) in mm	300 x 155 x 245
Weight (with cables)	13 kg

Optional accessories

- SACTERM setup, parametrization and diagnostics software
- GD2 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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