



Energy

Separate motor generator SMG180

Electric motor for applications in
sports and work boats



Compact and powerful

alternative for mechanical and hydraulic systems

Reliable

Developed and tested for automotive high volume series

State-of-the-art

technology for mobile machinery

- Permanent magnet water-cooled synchronous motor with high speed and highest power density
- 400 V standard offers maximum flexibility in the equipment of the electrified machines
- The combination with inverters and gear units from Bosch enables customized system solutions from a single source

TECHNICAL DATA

Nominal Ppower	¹	60 kW
Maximum power	¹	90 kW
Nominal torque	¹	95 Nm
Maximum torque	¹	200 Nm
Maximum speed		12 000 rpm
Voltage		< 425 V _{DC}
Shaft		DIN 5480-N 25 x 1,25 x 18 x 19H
Bolt hole diameter		245 mm
Length		239 mm
Weight		30 kg
Protection class		IP67, IP6k9k
Cooling		Water-glycol-mixture Si-OAT 50:50, 8 l/min
Ambient temperature		-40...+85°C
CE conformity		Low voltage directive 2014/35/EU & RoHS 2011/65/EU



1. T_{coolant} 65 °C; Power/torque at 400 V DC – continuous, peak ± 10 s

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