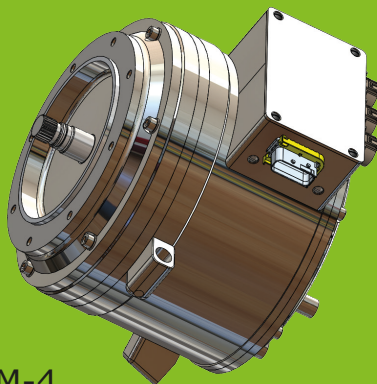


Motor specifications	
Duty	S1
Continuous/max. power ¹⁾	P=115/175 kW
Speed ²⁾ continuous/max.	n=8400/12000 rpm
Continuous torque/max.	T=130/200 Nm
Continuous phase current/max.	I=224/350 A
Continuous/max. current frequency	f=280/400 Hz
Voltage (sinus.) at motor terminals nom./max.	U _s =305/435 V
Battery voltage supplying the inverter	U _{DC} =650-700 V
Efficiency (at 115/175 kW)	η=98,6/98,4 %
Temperature sensors	Pt100
Motor weight	m≈58 kg
Cooling mode	IC9S7A0
Protection rating	IP54

¹⁾ The maximum values refer to a motor overload condition lasting up to a maximum of 2 minutes.

²⁾ The motor speed curves are shaped according to the motor load and battery voltage.

Changing motor parameters is possible by agreement with the customer.



PMEV180M-4
Power: 115 kW



Łukasiewicz
Instytut
Elektrotechniki

Three-phase synchronous motor



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Three-phase permanent
magnet synchronous motor
dedicated to traction drives

Three-phase synchronous motor

The three-phase permanent magnet synchronous motor is dedicated to the propulsion of wheeled vehicles weighing up to 3.5 t. The motor rotor contains permanent magnets and requires power from a three-phase power electronics controller with sinusoidal control. The motor is equipped with a rotor angle sensor and temperature sensors.

The body is equipped with a channel for liquid cooling. The duct inlet and outlet are routed outside the body to accommodate hydraulic lines.

The motor is connected to the electronic controller via electrical connectors located in the terminal box.

