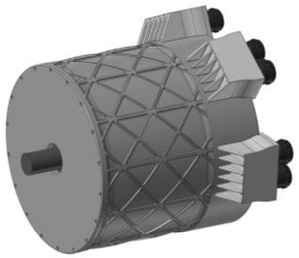
BoostDrive Speed ED1000

High power density



TECHNICAL DATA

Outer Diameter	300 mm
Length	280 mm
Weight	57 kg
Power-to-weight ratio	17.5 kW/kg
Continuos Power	1 MW
Peak Power	1,3 MW
Rpm. Continuous	15000 rpm
Rpm. Max	16500 rpm
Continuous Torque	645 Nm
Peak Torque	760 Nm
Cooling	water

We look forward to your inquiry

eMoSys makes a difference

Key performance indicators of our technologies

98 %
Efficiency
Our BoostDrive Speed delivers a maximum in efficiency

15 kW/kg
Power density
Our BoostDrive speed sets a new industry benchmark

0,2 ms
From 0 to 100 rpm
Our BoostDrive Air accelerates at unmatched dynamic figures

Interested? Get in Touch!

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eMOSYS

Electric motor technology at the highest level

PUSHING PHYSICS TO THE LIMITS

BoostDrive AIR

Small and powerful

TECHNICAL DATA

Motor	BoostDrive AIR 2.0
High Performance	1 kW
DC nominal Voltage	200 V / 48 V
Torque (t = 500 ms)	25 Nm
Torque max (t = 50 ms)	40 Nm
Outer Diameter	80 mm
Inner Diameter	38 mm
Size of Back (incl. ECU)	25 mm
Compact Package	0,5 kg

Your economic and technical advantages of choosing BoostDrive AIR

SPACE-SAVING & EFFICIENT
Inverter & motor control reduce space requirements and wiring.

COST REDUCTION
High torque at low speeds makes gearboxes unnecessary.

FASTER PRODUCTION
Simple design facilitates manufacturing.

FLEXIBLE
Integrated control enables freely definable motion profiles.

QUIET
Silent operation for noise-sensitive environments.

COMPACT
Ideal for applications with limited installation space.
Precise: direct drive ensures play-free operation.

BoostDrive Speed ED600

Sets standards without compromises

TECHNICAL DATA

Continuous Performance	600 kW
Cooling	fluid/water
Fluid Cooling	65°... 85°C
Cooling of Rotor	fluid
DC Voltage Range	500... 920V
Continuous Torque	380 Nm
Rpm. continuous	15.000 rpm
Rpm. max. (<30 sec.)	18.000 rpm
Peak Efficiency	> 96%
Outer Diameter	300 mm
Length (excl. Connections)	420 mm

More about the economic and technical benefits of using BoostDrive Speed

SPACE & ENERGY EFFICIENCY
Inverter & motor control save space and reduce wiring.

FASTER PRODUCTION
Simple design streamlines the manufacturing process.

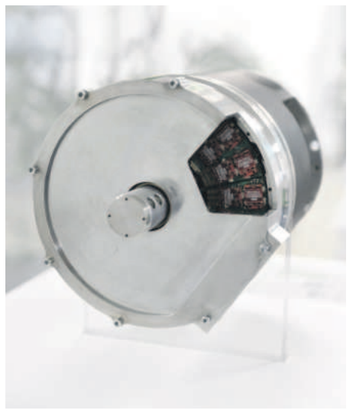
ROBUST & POWERFUL
Special cooling design ensures maximum performance under extreme conditions.

VERSATILE APPLICATION
For interior rotors (high speeds, liquid-cooled) & exterior rotors (low speeds, air-cooled).

MAXIMUM EFFICIENCY
Over 96% efficiency including inverter – leading in energy efficiency.

BoostDrive Speed FE350

High power density

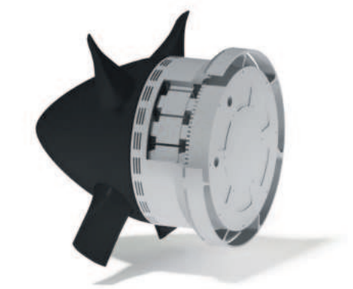


TECHNICAL DATA

Continuous Power	250 kW
Peak Power (15s)	350 kW
Cooling	water
Fluid Cooling	65°... 85°C
Cooling of Rotor	Air
DC Voltage Range	500... 920V
Peak Torque (<15s)	450 Nm
Rpm. continuous	20.000 rpm
Rpm. max. (<30 sec.)	25.000 rpm
Peak Efficiency	> 97%
Outer Diameter	230 mm
Length (excl. Connections)	260 mm

BoostDrive Speed ED350air

High power density



TECHNICAL DATA

Continuous Power (10 Min)	350 kW
Cooling	air
Rpm. continuos	2000 rpm
Integrated Inverter Voltage max	800 Vdc
Diameter	400 mm
Length with CoFe	200 mm
Weight	33 kg