



Dynamic & Efficient SINOCHRON® Motors

Advantages

The ABM **SINOCHRON®** Motor is a **permanently excited synchronous motor** with internal magnets. The specific rotor shape generates a **sinusoidal** distribution of the magnetic flux. This yields special properties enabling, apart from a virtually nonexistent cogging torque, reliably **regulated operation with no sensors.**

- High power density
- Highest efficiencies in partial load mode
- Several sizes and lengths
- Various models



Technical Data

Frame Size	63	80	100
Output S1 @ 3000 RPM [kW]	0,4 – 1,4	1,4 – 3,6	6,5 – 13,0
Peak torque [Nm]	2,3 – 8,0	8,0 – 20,6	37,8 – 51,5
Output S3-15% @ 2500 RPM (pumps) [kW]	0,5 – 1,6	1,6 – 4,0	7,5 – 15,0
Battery voltage [VDC]	from 24		
Max. output speed [RPM]	6000		
Protection Class	IP54 (terminal connections IP00)		

Data are typical size-dependent values for non-ventilated motors with different overall stack lengths. Additional detailed information and characteristic curves available upon request.

Special Features

- Application-specific **winding design**
- **Sensorless operation** possible due to the special rotor design
- Ventilated, non-ventilated and electric fan cooled versions available
- Temperature monitoring via **PT1000 temperature sensor**

Options

- **End shield, housing or special motor** versions
- **Rotor position encoders** (resolvers, sin/cos encoders, Hall sensors)
- Electromechanical **holding brake**
- **UL version**
- Special version in **IP6K9K**