

Voith Electric Drive System Technical Specifications

Overview

- *Maximum power of more than 400kW (at 650V DC link voltage)*
- *Continuous power of more than 300kW.*
- *Three phase motor-technology (no 6 or 9 phase technology)*
- *Central drive motor*
- *Permanent magnet motor technology*
- *Maximum Torque available from standstill and for more than 20 seconds when motor and inverter are in operating temperature (Rotor+Stator >90°C, motor + inverter cooling fluid 60°C @ 35l/min))*
- *Fully Compliance to ISO 26262: 2018*
- *No damage of drive inverter if there is a short circuit at the motor windings*
- *towing of the vehicle must be possible with max. Speed without any additional measures (e.g. disconnecting of prop-shaft)*

Central Motor HD

- More than 400 kW peak power
- More than 300 kW S2 power
- 3,100Nm max. torque
- Up to 3,800 rpm
- Aluminum housing
- Water cooled
- Prepared for KITAS sensor
- Universal wiring input
- Integrated identification module IM – no learning process needed
- Output shaft 150KV or 180 KV
- IP6K9K
- Ø430x650mm / 295 kg

Drive Inverter HD

- Up to 850 Aeff
- Voltage Levels 400-850 V
- Aluminum housing
(Series design more compact)
- Water cooled
- Integrated brake chopper (option)
- Integrated safety controller
- Controller Board in AEC-Q100
- IP6K9K
- Approx. 45kg / 600x505x252mm
- ISO 26262 compliant; ASIL C