

Traction inverter

160kva

inverter.traction_inverter.160kva:

Power Data:

- AC output power @ 570 V DC : 160kVA
- Nominal DC voltage : 400 V
- DC input voltage range : 100-600 V
- max. AC output voltage @ 3 AC : 300 V
- Rated current @ 4 kHz: 460 A
- Peak current for 60 s @ 4 kHz: 598 A
- Peak current for 1 s @ 4 kHz : 690 A
- Output frequency : 0 – 599 Hz (optional up to 1,200 Hz)
- Control supply voltage: 24 V DC ($\pm 20\%$) optional 12 V DC ($\pm 20\%$)
- Ambient temperature: -25 to 85 °C (beyond 65 °C with derating)
- Coolant temperature: -25 to 65 °C

Control Hardware:

- Analog I/O : 1x IN (± 10 V or ± 20 mA) and 1x OUT (± 5 V, max. 5 mA)
- Digital I/O: 4x IN / 2x OUT / 4x IN/OUT
- Service interface : RS485
- Communication interface: CANopen / SAE J1939
- Motor temperature control: PTC, PT1000, KTY
- Encoder system: Resolver, HTL, TTL, sine/cosine encoder
- Resolver input voltage : 7 Vrms
- Transformation ratio for resolver : 0.286 or 0.5

Mechanical Data:

- Dimensions w/o connectors: [L × W × H]: 506 x 552 x 150 mm
- Weight : 45 kg
- Degree of protection : IP67 (IP6K9K as option)
- Type of cooling Liquid: water-glycol

General Data:

- User Interface: REFUdriver software tool
- Electromagnetic compatibility: UN ECE R10, EN 61800-3
- Device protection : Short circuit, earth fault, over current, voltage and temperature monitoring, motor temperature monitoring

- Configurations : Motor inverter, generator inverter, DC-DC converter, charging devices, on-board power supply
- Cable connection : HV: gland / LV control: plug