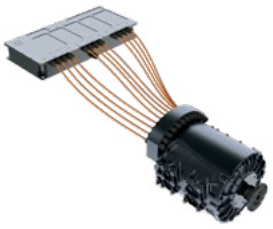

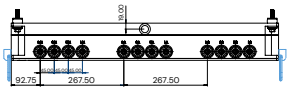

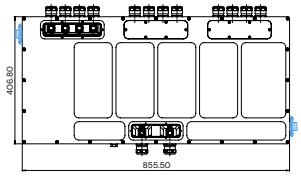

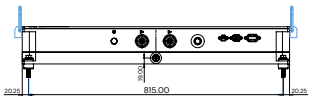

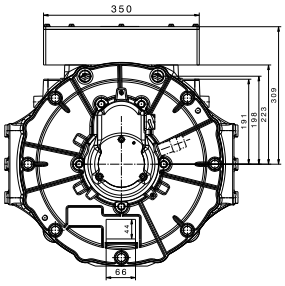

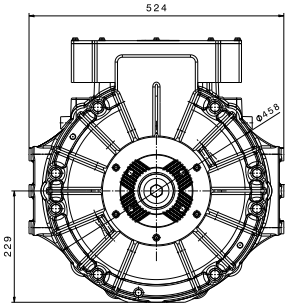

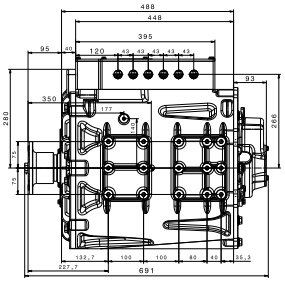

DATASHEET

Coil Drive System™ High Voltage

Inverter

Max DC voltage	1200 V
Peak power	1300 kW
Performance voltage	600-800 V
Peak per phase current (30 sec)	800 Arms
Continuous per phase current	350 Arms
Peak torque	4300 Nm
Continuous torque	1335 Nm
Coil per phase	2
DC link voltage utilization	100%
Baud rate (pulse per sec)	500k
Coolant flow rate(L/min)	25
Coolant pressure drop (kpa)	25
Weight (kg)	46
Dimensions (mm)	855 x 406 x 120
Operating temperature (C)	-40 to +60

Motor

Motor type	Permanent Magnet Synchronous Motor (PMSM)
Cooling method	Liquid cooling, encapsulated design
Cooling medium	50% G40/G48 — 50% water
Coolant flow (L/min)	25
Motor weight (kg)	300
Axial length of the iron core laminations (mm)	260
Number of magnetic poles	8
Motor length (mm)	666
Motor diameter(mm)	524
Motor height (mm)	534
Efficiency (%)	95+
Control interface	CAN 2.0 — programmable (J1939, open)

Standards & Protection

Ingress protection	IP6K9K
Protective microcontroller unit (MCU) inputs	3 phase current, DC link voltage, motor position & temp., half-bridge temp.
CAN controller compliance	ISO11898-1
Component standards	AEC-Q100/AEC-Q101/AEC-Q200/ROHS
Toxic material and flammability	UL94-V0
Functional safety	ISO26262
Automotive quality management system	IATF16949
Automotive electromagnetic compatibility (EMC)	CISPR-25
Shock and vibration standard	GMW3172 sprung masses

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