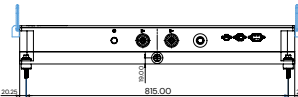
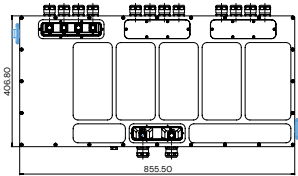
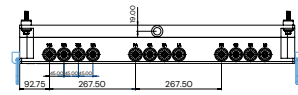


DATASHEET

Coil Driver™ High Voltage



Inverter

| | |
|--|--------------------------------------|
| Max DC voltage (VDC) | 1200 |
| Performance voltage (VDC) | 600–800 |
| Peak power (kW) | 1300 |
| Peak per phase current (30 sec) (Arms) | 800 |
| Continuous per phase current (Arms) | 350 |
| Peak torque (Nm) ¹ | 4300 |
| Continuous torque (Nm) ¹ | 1335 |
| Coil per phase | 2 |
| DC link voltage utilization | 100% |
| Baud rate (pulse per sec) | 500k |
| Cooling method | Liquid cooling, encapsulated design |
| Cooling medium | 50% G40/G48 — 50% water |
| Coolant flow (L/min) | 25 |
| Weight (kg) | 46 |
| Dimensions (mm) | 855 x 406 x 120 |
| Operating temperature (C) | -40 to 60 |
| 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 |

¹ Torque values are based on a system comprised of Exro 800V Coil Driver™ and TSA TMPW 38-26-8 motor.