

## ELECTRIC MOTOR CONTROLLER

# E150

The E150 is an ISO26262 ASIL-D capable and cybersecurity ISO21434 ready high-power-density traction inverter for 400V applications that delivers up to 150kW continuous power.



## MAIN FEATURES

- Sixth gen. IGBT powerpack, up to 750V/820A peak phase current
- ASIL D certified triple core microcontroller @300Mhz
- Redundancy functions for safety-critical applications
- Over current, over voltage and over temperature self-protection features
- Real time parameter calibration and monitoring
- PC based set up and programming tools available
- Application software enables sensors auto-calibration functions
- Position sensor types: Resolver, XMR, Absolut Encoder, Incremental Encoder, BiSS
- Current sensor: hall
- Temperature sensor: NTC 10k and PT1000. Accuracy with other sensors can be evaluated.
- Torque, Speed, Id/Iq Control
- 2x CAN Communication channels (ECU communication & calibration with DevelinkSTUDIO tool)
- CAN database available (.dbc)
- 3 phase PMSM, ACIM and BLDC motors
- UN/ECE R10 and R85 certified

### ELECTRICAL DATA

Nominal DC link voltage	48 - 400	VDC
Max Operational Voltage	450	VDC
First Over Voltage Protection	470	VDC
Max Current	530	Arms
Continuous Power @400V	150	kW
Switching Frequency	2 - 15	kHz
LV Supply	9 - 28	VDC

### MECHANICAL DATA

Working Temperature	-40°C to 85°C
Cooling	Water-Glycol 50:50
Volume	4.06 l
Dimensions	366 x 207 x 62 mm
Mass	4,8 kg
Flow rate coolant	6 - 12 l/m
Compatible HV cables	35, 50, 70 mm <sup>2</sup>

