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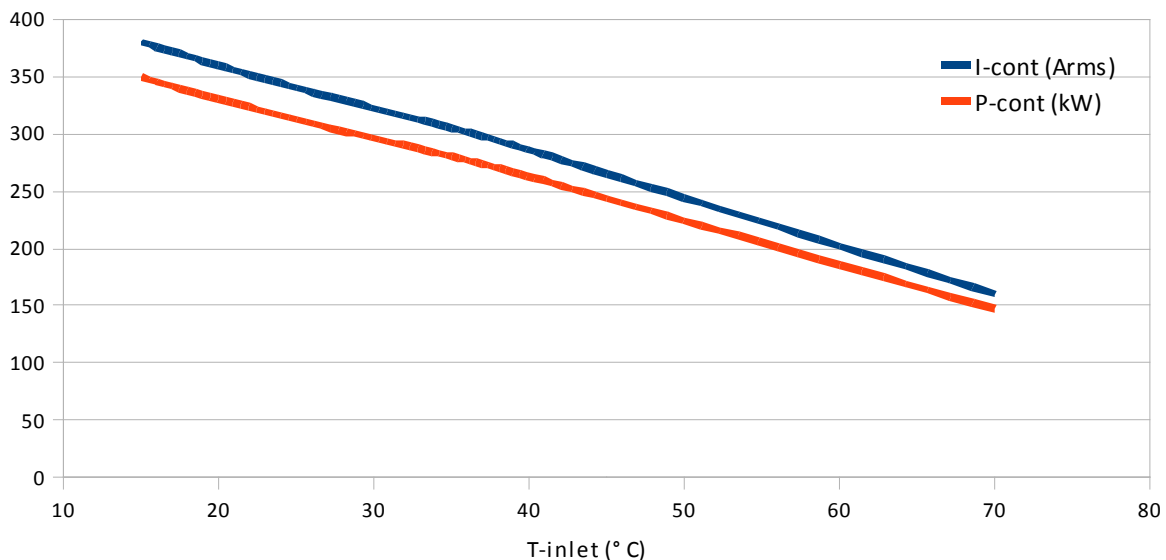
TC400 Inverter



The E2M TC 400 traction controller is a 250kW inverter for 3 phase induction and permanent magnet motors for vehicle drive line systems with vehicle control capabilities. Typical applications are for sportscar, busses, trucks and other high power vehicles.



Inverter performance coolant temperature dependency



Features

- High power and current capability
- High efficiency, low losses
- Large DC input voltage range
- Very compact and lightweight design
- Liquid cooling
- Ruggedized packaging for reliable operation and long lifetime
- High speed current loop with continuous PWM for efficient control
- Vehicle controller functionality
- Canbus interface

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TC 400 Inverter Specifications

Power stage

Continuous power	240 kW
Continuous output current	265 Arms
Peak output current	400 Arms
Maximum nominal DC input voltage	750 V
Peak operational DC input voltage	900 V
Overtoltage guard DC input voltage	950 V

Mechanical

Height	156 mm	excluding connectors
Width	200 mm	
Length	612 mm	including connections
Weight	18 kg	

Controller

Current loop update rate	100 kHz
Automotive controller update rate	adjustable 0.1-1 kHz
Interface	Canbus (CanOpen)

Specifications given are for coolant inlet temperature of 45 °C at the nominal DC input voltage of 750Vdc. For dependancy on coolant inlet temperature, see the chart on frontpage.

E2M Technologies B.V.

Fokkerweg 300 - Building 67, second floor - 1438 AN Oude Meer - The Netherlands
Tel. +31 (0)20 7070901 - Fax +31 (0)20 7070907
www.e2mdrivesystems.eu - info@e2mtechnologies.eu