

ZPH4 250kW Powertrain



ZPH4 Powertrain was designed to deliver power, efficiency and reliability for the FIA Formula E Season 2-4 championship. Advanced technologies and design know-how gained from our experience in both automotive and race applications have been utilised in this 250kW MGU and CU. This championship-winning MGU and CU demonstrated proven levels of performance, reliability, safety and class leading efficiency in the very competitive Formula E series. This system is available for use in the competitive HEV and EV race applications.

SPECIFICATION

Type:
3-phase Permanent Magnet Machine
3-phase Silicon IGBT Inverter

Dimensions: 560 x 303 x 245 mm
Mass: 50.5 kg (without DC cable)
Peak Power: 250 kW
Operating Voltage: 330 – 750 V
Max Operational Speed: 16,000 rpm
Efficiency: 96% nominal
Cooling: Water/Glycol
Control: CAN
Environmental Sealing: IP67

APPLICABLE SERIES

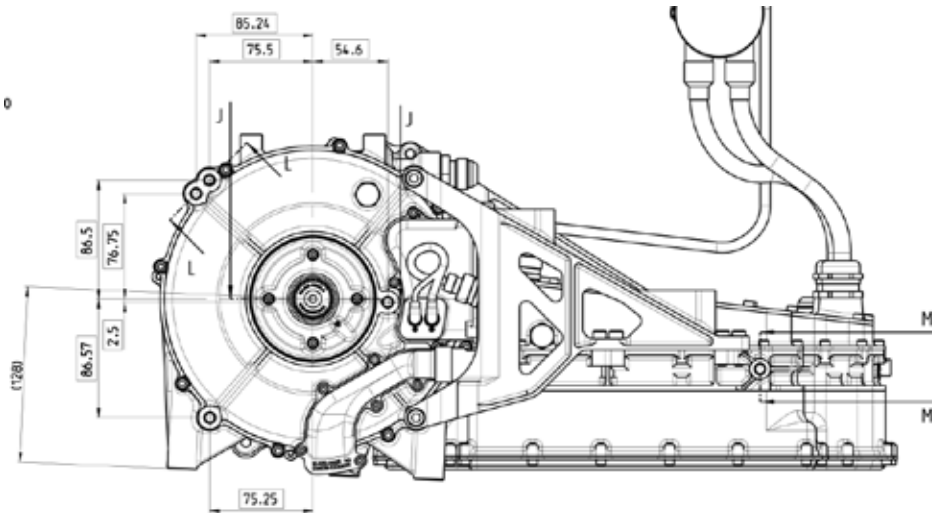
Formula E
Electric World Rally Cross
(Higher Voltage Range Available)
HEV/EV Race Applications

INSTALLATION DRAWINGS

Please see next page

ZPM2.3 75kW Electric Machine

INSTALLATION DRAWINGS



CONNECTOR INFORMATION

Signal Connector: AS010-35-SN

Pin	Signal
1	IGBT ENABLE
2	IGNITION ENABLE
3	GROUND
4	GROUND
5	CAN H -
6	CAN H +
7	CAN App -
8	CAN App +
9	VBATT
10	HVIL IN
11	HVIL OUT
12	-
13	-

