



► Compact Power BLDC CPM90

5932 - 48V







•	Peak power4.5 kW
•	Peak Torquemin. 7 N

Max. speed......7000 rpmCommunication......CAN

• Weight...... 3.2 kg

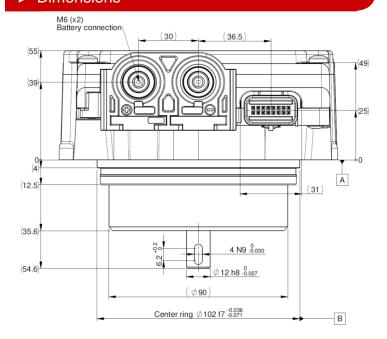
The compact power BLDC CPM90 features a brushless, permanent magnet synchro-motor as well as a fully integrated control unit. With its best-in-class efficiency of up to 90%, it is a perfect match for any 48V application where the size matters.

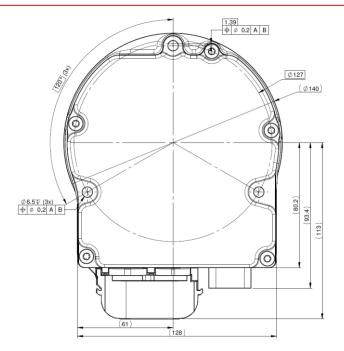
▶ Features & Benefits

- Brushless DC motor with integrated CAN bus control electronics
- Wide supply voltage range 12-60V
- Protection index up to IP6k9k, with integration to customer's housing
- Operating temperature from -40°C to 85°C
- Outstanding compactness
- Torque control / Speed control

- Power / Battery current limitation
- Integrated diagnostics
- Integrated signal connector
 - CAN
 - · Wake-up and Killswitch inputs
 - 1-2 Digital I/Os
 - 3 Analog Inputs
 - External sensor supply 5V/300mA.
- Fully validated

Dimensions

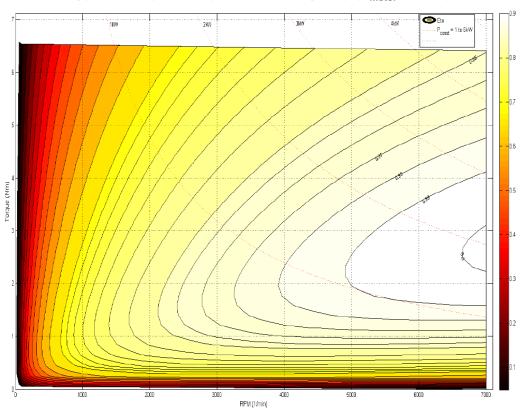




▶ Performance Data



Typical Torque vs. Speed Efficiency Map (T_{motor}=100°C)



► Electrical and Mechanical Interface

Integrated signal connector	TE GET.64 16 pins
Screw terminals for power supply	2x M6 bolts
Communication	CAN 2.0, Baudrate 250 kbit/s, 500 kbit/s, 1 Mbit/s
Protection functions	Reverse polarity, over current, over temperature, over voltage
Maximum battery current	150 A
Quiescent current	~ 3mA
Output shaft	φ12h8 with groove for feather key DIN 6885 – A 4x4x10

▶ Operating conditions

Operating Temp. Range	-40°C / +85°C
Vibration level	5g RMS, further validations upon request
Protection class	Up to IP 6K9K after integration to the customer's housing
ROHS (Lead Free)	Compliant

Special requirements upon customer specifications. Right to change reserved.