

► Compact Power BLDC

MD07210R1004

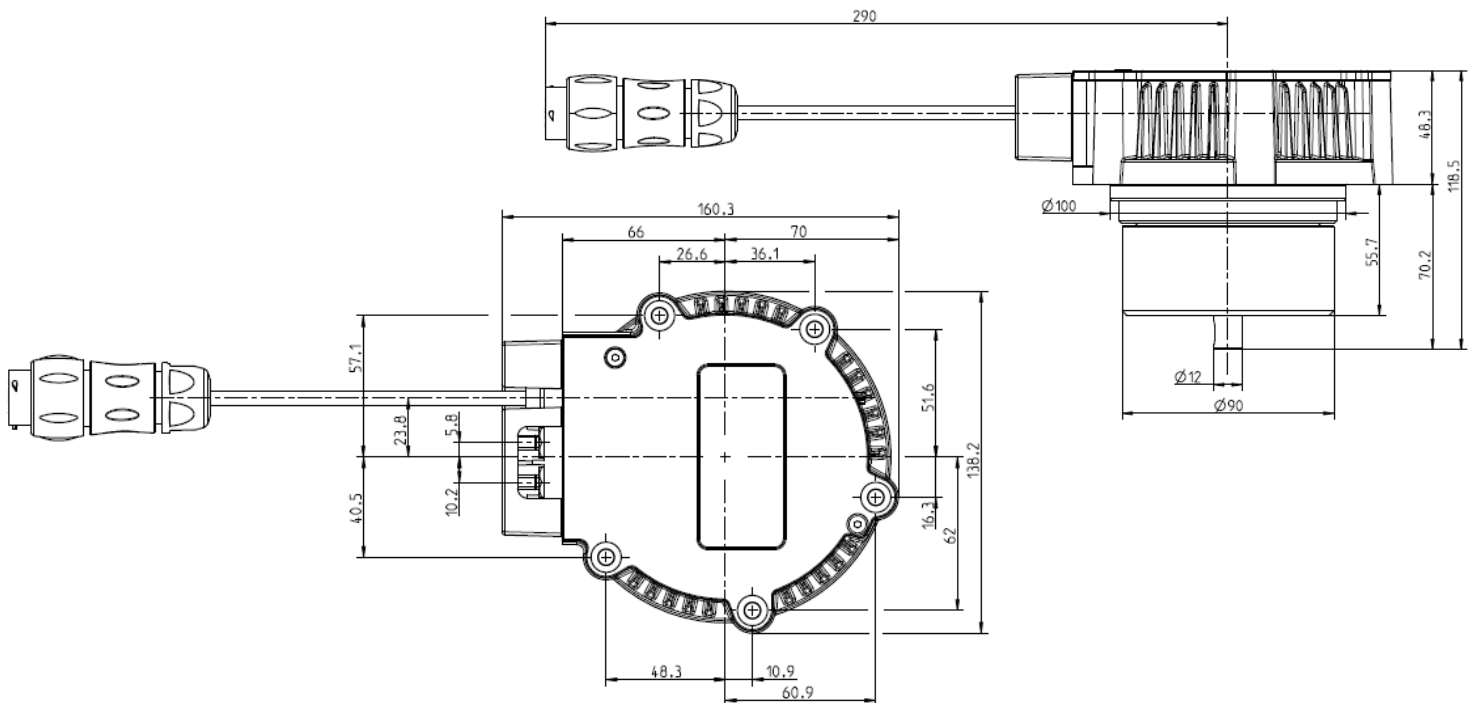
- Peak torque..... 7 Nm
- Max. speed..... 7000 rpm
- Peak power..... 3000 W
- Communication..... CAN

The compact power BLDC CPM90 comprises of a brushless, permanent-magnet synchro-motors as well as a fully integrated control unit. It is exhibiting a maximum efficiency -over 90%- for all low voltage applications.

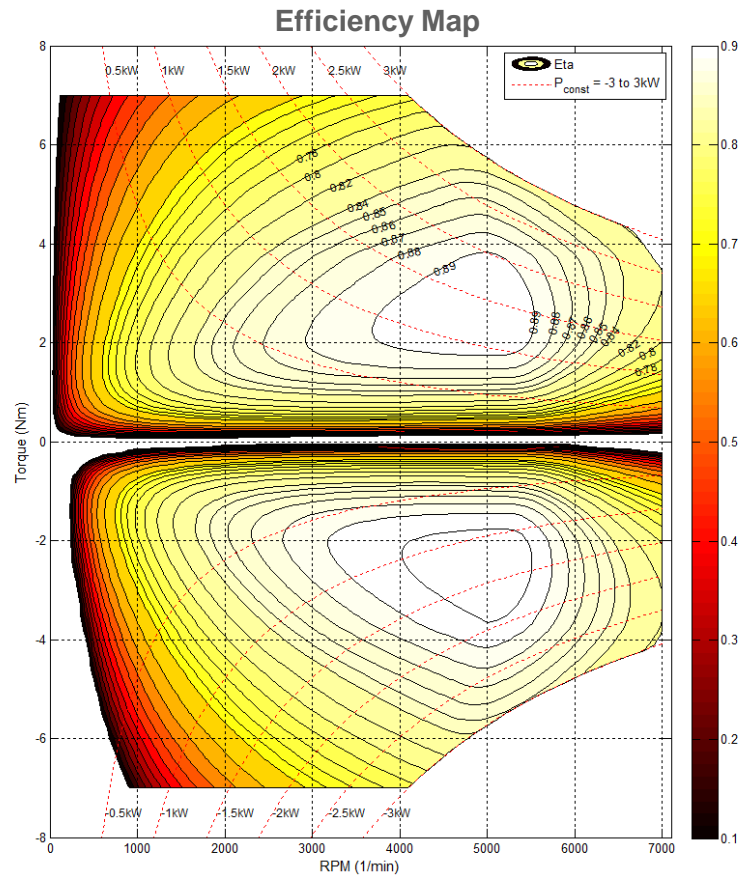
► Features & Benefits

- Brushless DC motor with integrated CAN bus control electronics
- Torque up to 7 Nm peak
- Supply voltage range between 38V and 56V
- Protection index up to IP54
- Outstanding, compactness
- Torque control/Speed control
- Power/Battery current control
- Energy recuperation
- Field oriented control

► Dimensions



► Technical data



Operating voltage	36 – 56	V
Max torque	7	Nm
Max speed	7000	rpm

► Electrical and Mechanical Interface

Integrated signal connector	Souriau UTS1JC1412P
Signal connector pinout	1=CAN high, 2=CAN low, 3=Analog in 2, 4=Analog in 1, 5=Digital IO 1, 6=/Killswitch, 7=Digital IO 3, 8=Digital IO 2, 9=Signal GND, 10=Vout, 11=Digital out 4, 12=not used
Screw terminals for power supply	2x M6 bolts
Communication	CAN
Over and under voltage protection	Integrated
Maximum battery current	100 A
Output shaft	2 flats, spline, feather key (others on demand)

► Operating conditions

Operating Temp. Range	-40°C / +60°C
Protection class	Up to IP 54
ROHS (Lead Free)	Compliant