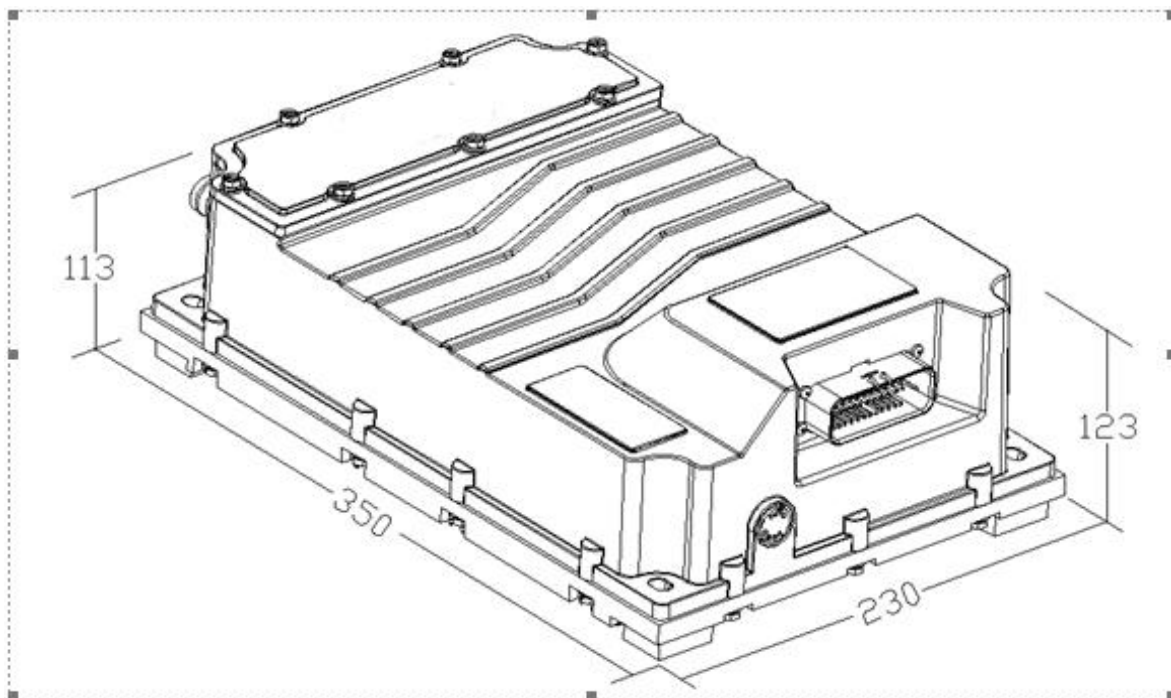




- Isolated Type
- All-Aluminum Housing
- IP66

■ Dimensions & Installation Instructions



Terminal screws: M8×12 (tightening torque 10~14 N • m)

■ Wiring Definitions

Controller Interface Definitions (35Pin, AMP776164-1)



Pin	Function definition	Pin	Function definition
1	Main contactor control 12V (high-side, 1A)	19	5V2 supply
2	Controlled 12V supply output (1A), reserved	20	DO2 D gear lamp (low-side 500mA)
3	T1 (mag-enc supply GND)	21	DO3 N gear lamp (low-side 500mA)
4	5V1 supply	22	R gear (IO active high)
5	Resolver signal S4	23	12V+ auxiliary battery power input
6	T2 (motor temperature)	24	N gear (IO active high)
7	Accelerator pedal AD2	25	CAN_H
8	Accelerator pedal AD1	26	KEY-ON (IO active high)
9	Ground wire GND	27	Resolver signal R1
10	Precharge relay control 12V	28	Resolver signal S2
11	D gear (IO active high)	29	Resolver signal S3
12	Brake pedal AD1	30	Ground wire GND
13	Reserved AD2	31	BREAK IO
14	CAN_L	32	KEY-ACC (wake-up signal)
15	DO1 R gear lamp (low-side 500mA)	33	5V1 supply (mag-enc supply)
16	Resolver signal R2	34	12V GND
17	Resolver signal S1	35	Brake pedal AD2
18	NC		

■ **Technical Specifications**

Model	DCMC84Ixx
Rated Input Voltage (DC-V)	144
Rated Input Current (DC-A)	105
Input Voltage Range (DC-V)	110~175
Maximum Input Current (DC-A, 30s)	210
Maximum Output Current (AC-A@10s)	350
Peak Power (kW)	30
Operating Ambient Temperature (°C)	-35~+55
Motor Type	PMSM / SynRM / Induction Motor
Motor Control Method	FOC/MTPA/SVPWM/Flux Weakening
Motor Sensor Type	Resolver
Efficiency	98%
Protection	IP67
Dimensions (mm)	350x230x123
Weight (kg)	<10
Communication	CAN2.0
Cooling Method	Natural Cooling
Protection Rating	IP66

■ Product Features

- Mainstream ARM is used as the main control chip.
- An advanced vector control algorithm provides precise control of motor torque and speed.
- Energy regenerative control extends vehicle driving range and meets the needs of different customers.
- Optional anti-rollback function on slopes improves driving safety.
- Software can be customized to meet the different requirements of individual customers.
- All-aluminum housing, fireproof and waterproof.

■ Important Notes

- Always tighten the terminal screws to the required torque.
- The vehicle must be equipped with reliable short-circuit protection such as circuit breakers and fuses.