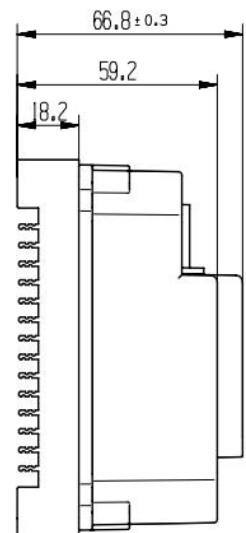
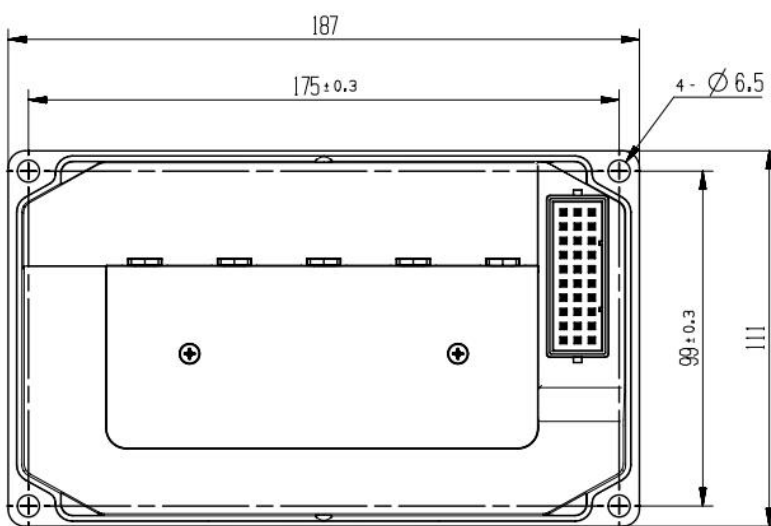




- IP66
- Non-Isolated Type

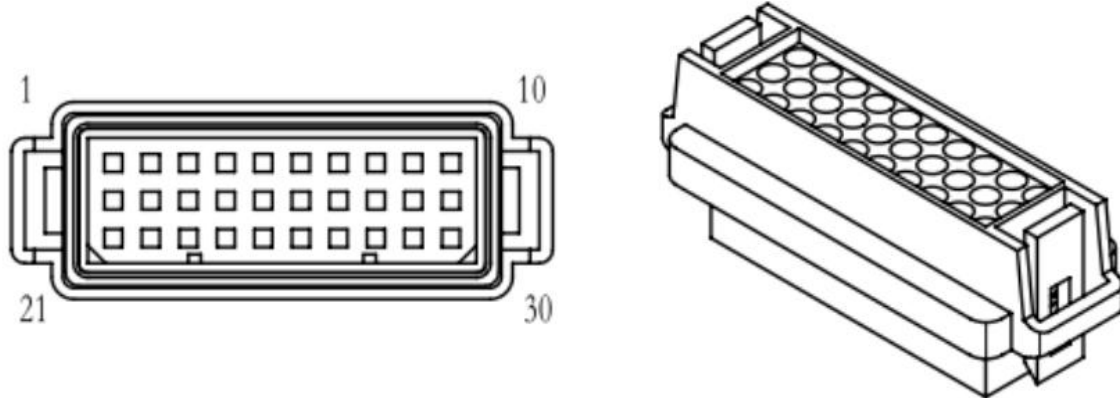
■ Dimensions & Installation Instructions



Terminal screws: M6 × 12 (tightening torque 8~10 N • m)

■ Wiring Definitions

Controller Interface Definitions (30Pin, ZT2023 1.1 × 1.1 × 19.3) (female end ZT2024-A)



Pin	Function definition	Signal	Pin	Function definition	Signal Range
1	Motor temperature	0~3.3V	16	Alarm signal IO_EX1	Active low
2	HALL_C (SIN)	0~5V	17	Reverse IO_EX4	Active low
3	/	/	18	CAN_H	/
4	Throttle signal	0~5V	19	P gear IO_EX7	Active low
5	/	/	20	Common negative	GND
6	One-key repair IO_EX2	Active low	21	Encoder power supply	5V
7	Low speed gear IO_EX5	Active low	22	HALL_A	0~5V
8	CAN_L	/	23	/	/
9	1-Wire / 485	0~12V	24	Throttle positive	5V
10	Kickstand / low brake IO_EX8	Active low	25	/	/
11	Encoder negative	GND	26	Bluetooth +12V	+12V
12	HALL_B (COS)	0~5V	27	High speed gear IO_EX3	Active low
13	/	/	28	High brake IO_EX6	Active when 12V applied
14	Throttle negative	GND	29	Wheel rotation signal	25~88V
15	/	/	30	Key switch line	25~88V

■ **Technical Specifications**

Model	DEMC24xx
Rated Input Voltage (DC-V)	72
Rated Input Current (DC-A)	60
Rated Output Current (AC-A@60min)	65
Input Voltage Range (DC-V)	25~88
Maximum Input Current (DC-A, 120s)	120
Maximum Output Current (AC-A@10s)	360
Operating Ambient Temperature (°C)	-20~+65
Motor Type	PMSM / SynRM / Induction Motor
Motor Control Method	FOC/MTPA/SVPWM/FluWeakening
Motor Sensor Type	SinCos / ABZ(+PWM) / HALL ABC (select one of three)
Efficiency	97%
Protection	OverCurrent / OverVoltage / OverTemperature / Stall
Dimensions (mm)	187*111*68
Weight (kg)	<1.6
Communication	CAN2.0 / 1-Wire
Cooling Method	Forced Air 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.

■ 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.