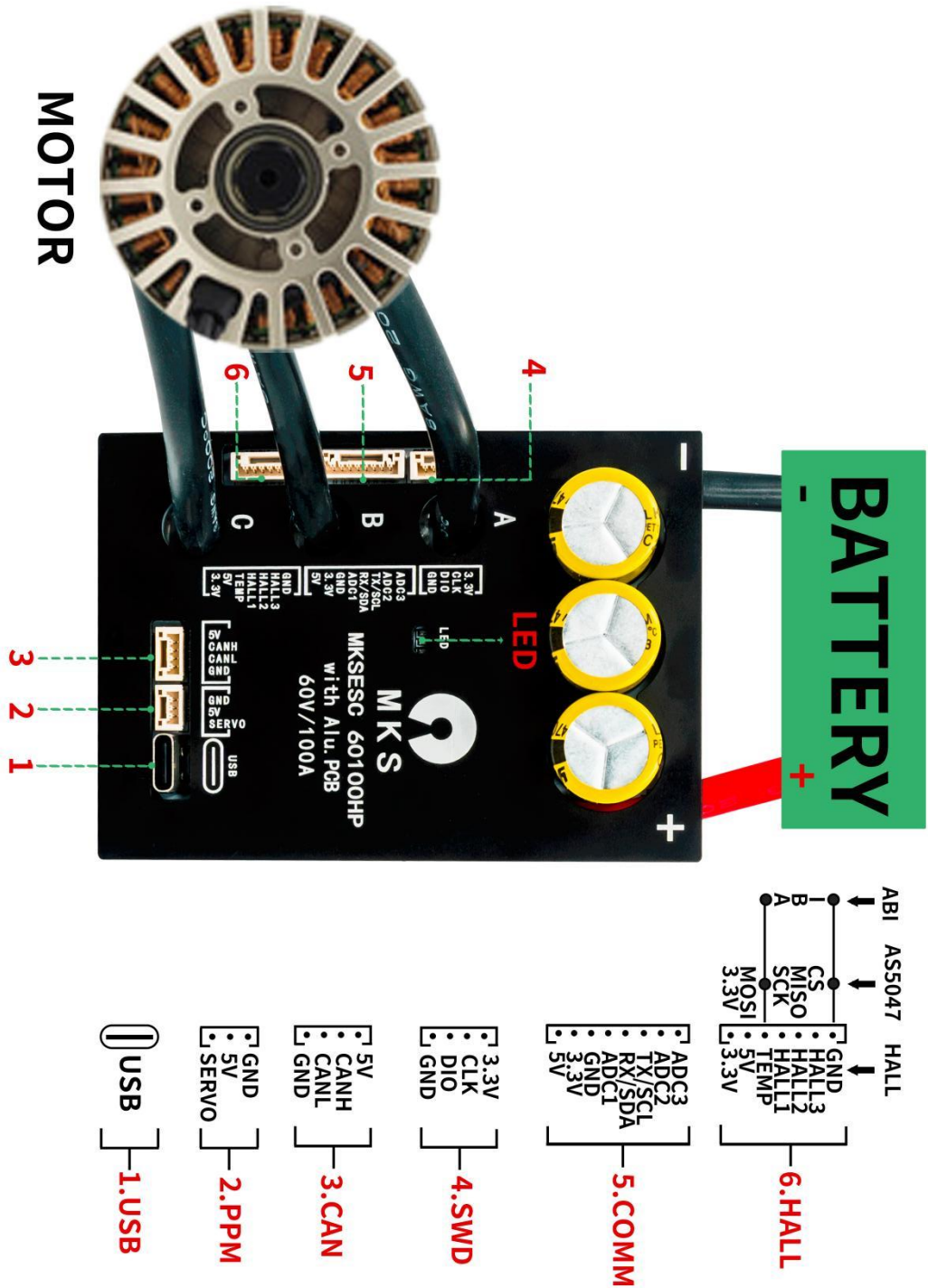


Wiring diagram



MKSESC 60100HP MANUAL

The **Makerbase ESC** is based upon the VESC Open Source Project, and compatible with VESC Software.

Feature:

- Support four control modes: Current/Dutycycle/Speed/Position control mode.
- Using 6pcs HYG015N10NS1TA TOLL-8 high current MOSETS.
- The AD8418AWBRZ chip is used for current acquisition to obtain accurate current.
- Protection functions: Low voltage protection, high voltage protection, over-current protection, temperature abnormally protection, mosfets over-temperature protection.
- Support the function of balancing car by connecting the IMU module through the IIC interface; support inertial measurement unit modules such as MPU9250, MPU9150, MPU6050, LSM6DS3, BMI160.

Specifications :

- Hardware: MKSESC 60100HP
- Firmware: Support to upgrade the latest firmware
- Voltage: 8V-60V(Cell: 3-13S; safe for 3S to 12S)
- Voltage spikes: May not exceed 60V
- Current: 100A continuous, 200A Pulse current(Continuous current depends on external heat dissipation)
- BEC: 5V@1A
- ERPM: 150000
- Control interface Ports: USB, CAN, UART
- Supported Sensors: Sensorless, Encoder, Hall, HFI, VSS
- Input Set Support: PPM, ADC, NRF, UART, SPI, IIC
- Modes: DC, BLDC, FOC(sinusoidal)
- Regenerative capacity: Yes
- Programmable: Yes
- Motor and Power Cable: 8AWG
- Product Size: 93mm*66.4mm*23mm

Technical support:

MKSESC step by step lessons in YouTube:

<https://www.youtube.com/playlist?list=PLc2RScfrSFECJst8vKtBXp192P-YP1ry5>

MKSESC 60100HP repository in Github:

<https://github.com/makerbase-motor/MKESC-60100HP>

