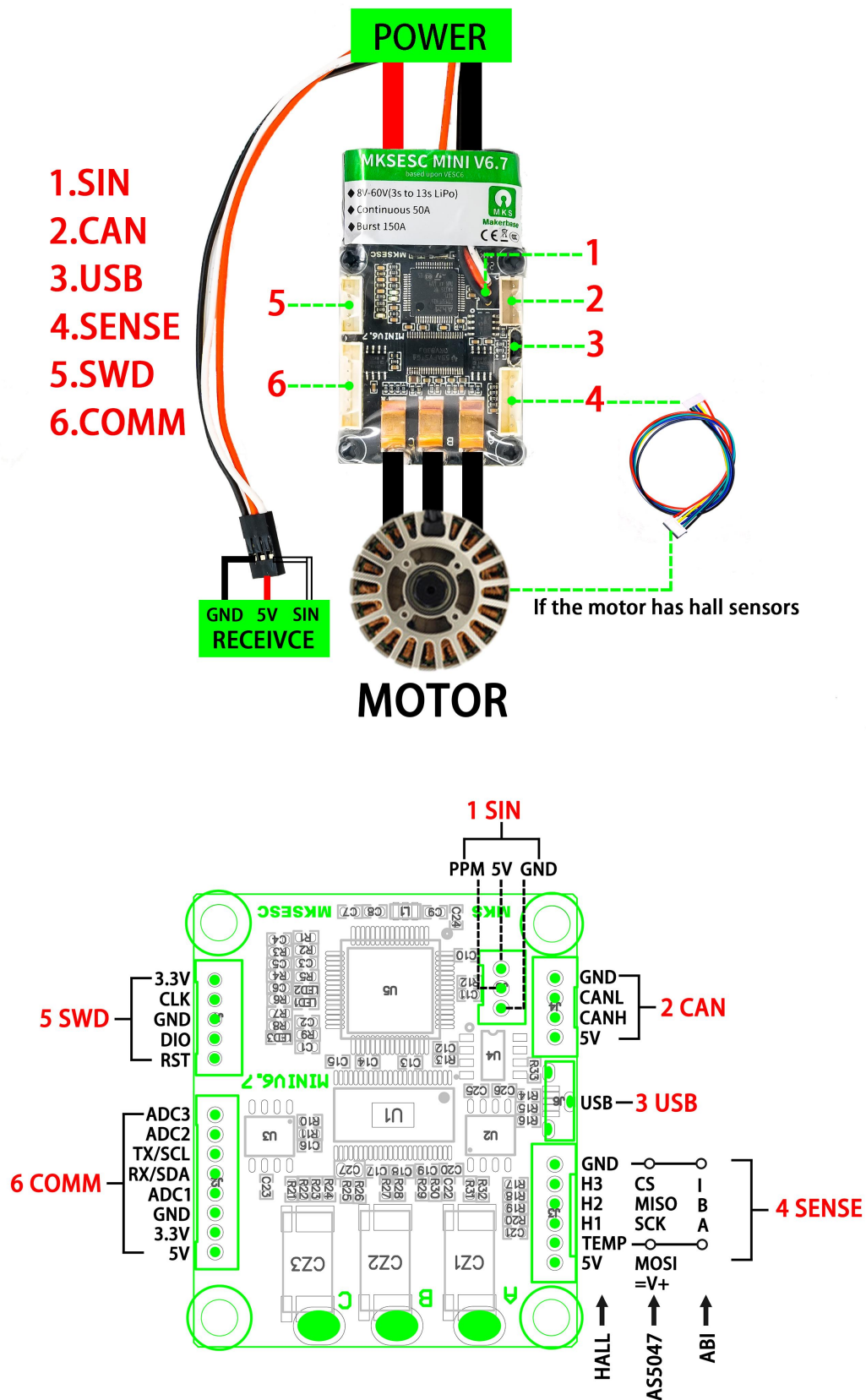


Wiring diagram



MKSESC MINI V6.7 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 NTMFS5C628NL high current MOSETS.
- 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.

Specs:

- Hardware: V6.7
- Firmware: Latest Version
- Voltage: 8V-60V(Cell: 3-13S; safe for 3S to 12S)
- Voltage spikes: May not exceed 60V
- Current: 50A continuous, 150A peak
- BEC: 5V@1A
- ERPM: 150000
- Control interface Ports: USB, CAN, UART
- Supported Sensors: ABI, HALL, AS5047, AS5048A
- Input Set Support: PPM, ADC, NRF, UART, SPI, IIC
- Modes: DC, BLDC, FOC(sinusoidal)
- Regenerative capacity: Yes
- Programmable: Yes
- Motor Cable: 12AWG
- Power Cable: 12AWG
- Product Size: 67mm*39mm*20mm

Technical support:

MKSESC step by step lessons in YouTube:

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

MKSESC repository in Github:

<https://github.com/makerbase-mks/VESC-MKS>

The shipping package contains:

- 1*MKSESC MINI V6.7
- 1*Micro USB Cable
- 1*MKSESC Sensor Cable
- 1*MKSESC MINI V6.7 Manual

