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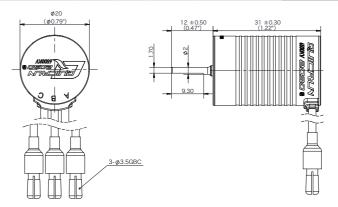
HW-SMB333DUL00

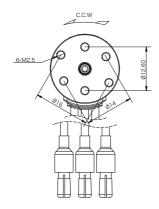
01 Warnings

- Read the manuals of all the items being used in the build. Ensure gearing, setup, and overall install is correct and reasonable.
- All connections, must be made correctly. You may loose control, or run into major issues caused by improper, bad, weak, or poor connections.
- Never apply full throttle if the pinion is not installed. Due to the extremely high RPMs without load, the motor may get damaged.
- Stop usage if the motor exceeds 100°C/212°F, high temperature will damage the motor and cause the rotor to weaken.

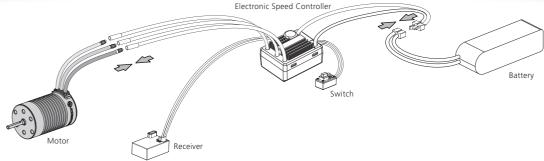
02 Specifications

Model	KV		No-load Current	Diameter/Length	Shaft Diameter/ Length	Bearing size	Poles	Weight	Applications
QUICRUN 2030SL G2-5000KV	5000KV	2-35	1.05A	φ=20mm(0.79") L=31mm(1.22")	φ=2mm(0.08") L=12mm(0.47")	D8*D3*T4	2	42g	1/18 On-road&Off-road
QUICRUN 2030SL G2-6500KV	6500KV	25	1.2A					42g	
QUICRUN 2030SL G2-7800KV	7800KV	25	1.3A					43g	





03 Installation & Connection



1. Installation of the motor

There are 6 motor mounting holes in M2.5 specification, and the mounting holes are 3.8mm in depth, before installing the motor on the vehicle, please carefully confirm whether the specifications of the screws are appropriate, as not to damage the motor due to excessive length. There are three types of mounting hole spacing of the motor, one group is 12.6mm, one group is 14mm, and one group is 16mm. Refer to the motor outline drawing for details.

2. How to Connect the Motor to an ESC

There is no specific wire sequence requirement for the connection between the motor and the esc,the # A/# B/# C three wires of the motor and esc can be connected at will, if the motor rotation in the opposite direction, you can exchange any two wires.

3. Inspection

Before powering on the esc, please check the motor installation and the order of all connections

04 Gearing

Reasonable selection of gear ratio is very important. Improper gear ratio may cause damage. You can select the gear ratio according to the following points!

1. The operating temperature of the motor

The motor temperature should be lower than 100 degrees Celsius (212 degrees Fahrenheit) in operation. High temperature may cause the magnets to get demagnetized, the coil to melt and short circuit, and the ESC to get damaged. A suitable gearing ratio can effectively prevent the motor from overheating.

2. The principle of selecting gear ratio

To avoid the possible damage to ESC and motor caused by the overheating, please start with a small pinion/a big FDR and check the motor temperature regularly. If the motor and ESC temperature always stays at a low level during the running, you can change a larger pinion/a lower FDR and also check the motor temperature regularly to ensure that the new gearing is suitable for your vehicle, local weather and track condition. (Note: For the safety of electric devices, please check the ESC and motor temperature regularly.)

