

GM3506 Specifications

Appearance requirements

serial number	sports event	request	note
1	Motor Diameter(mm)	$\Phi 40 \pm 0.05 \text{mm}$	Factory Inspection Items
2	Motor length(mm)	$17.8 \pm 0.2 (\text{without encoder}) \text{mm}$	Factory Inspection Items
3	Number of motor slots/poles	24N/22P	Factory Inspection Items
4	Shaft outer diameter(mm)	$\Phi 12 - 0.008 / - 0.012 \text{ mm}$	Factory Inspection Items
5	Shaft inner diameter (mm)	$8.6 + 0.05 / 0 \text{ mm}$	Factory Inspection Items
6	Wire length (mm)	$610 \pm 3 \text{ mm}$ without head	Factory Inspection Items
7	outlet color	24# Black Silicone Terminal Wire	Factory Inspection Items
8	Weight (g)	$64 \pm 0.2 \text{g}$	Factory Sampling Items
9	plug	2.5 Pitch Black DuPont Header	Factory Inspection Items
10	Axial Clearance (Dummy)	0	Factory Inspection

			Items	
Performance Requirements				
serial number	item item		require ask	Remarks note
1	unoccupied simultaneously	Voltage (V)	16V	KV Box
		Current (A)	0.17±0.05 A	Factory Inspection Items
		Speed (RPM)	2149~2375 RPM	Factory Inspection Items
2	load	Voltage (V)	12	Factory Sampling Items
		Current (A)	1	Factory Sampling Items
		Torque (<i>G-cm</i>)	600-1000	Factory Sampling Items
3	Number of coils (T)		Low Temperature 0. 21*1-34TY Connection Method	
4	Finished wired internal resistance (mΩ)		5.6Ω±5% (Resistance will change with ambient temperature, if the lot is caused by environmental changes) Resistance value out of standard range, re-sign standard)	
5	High voltage testing		DC500V1mA 2 sec. Factory Inspection Items	
Formulation: Review: Approval:				
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6	Rotor housing runout	≤0.1mm	Process Sampling Program
7	Steering (shaft extension view)	Clockwise (harmonized test wiring)	Factory Inspection Items
8	High Temperature Test	60°C for 100 hours, the motor can work normally after 24 hours at room temperature.	Process Sampling Program
9	low temperature testing	-20°C for 100 hours, 24 hours at room temperature, the motor can work normally.	Process Sampling Program
10	maximum power	≤25W	
11	Voltage range	2-3S (based on LiPo 3.7-4.2V/S)	constant power
12	operating environment	Temperature:-20~60°C, Humidity:10~90%RH	ambient temperature and humidity

Formulation:

Review:

Approval: