


Miuzei SG90 Motor

Product Specification (No.: YH009020170503V1)		
MODEL: MS18-F		
1. Apply Environmental Condition :		
No.	Item	Specification
1.1	Operating Temperature Range	-10°C ~ 50°C
1.2	Operating Voltage Range	4.8V ~ 6.0V
2. Appearance Inspection :		
No.	Item	Specification
2.1	Dimensions	Please refer to the last page.
2.2	Appearance	No damage and mustn't affect functions.

3. Electrical Specification (Function of the Performance):			
No.	Item	4.8V	6.0V
3.1	Operating speed (at no load)	0.09±0.01 sec/60°	0.08±0.01 sec/60°
3.2	Running current (at no load)	400±30mA	500±30mA
3.3	Stall torque (at locked)	2.0±0.20kg·cm	2.2±0.20kg·cm
3.4	Stall current (at locked)	1300±40mA	1600±50mA
3.5	Idle current (at stopped)	6±1mA	6±1mA
3.6	Running life(at no load)	>350000 Turns	>320000次 Turns
3.7	Temperature drift(at 25°C)	≤5°C	≤7°C
4. Mechanical Specification :			
No.	Item	Specification	
4.1	Overall Dimensions	Please refer to drawing.	
4.2	Limit angle	200°± 1°	
4.3	Weight	9 ± 1 g	
4.4	Connector wire gauge	# 28 PVC	
4.5	Connector wire length	250 ± 5 mm	
4.6	Spline	21T	
4.7	Horn type	Cross,star and bar-type	
4.8	Excessive play	≤0.5°	

5. Control Specification :		
No.	Item	Specification
5.1	Control system	Change the pulse width
5.2	Amplifier type	Analog controller
5.3	Operating travel	$120^{\circ} \pm 10^{\circ}$ (900→2100 μ sec)
5.4	Left&Right travelling Angle deviation	$\leq 6^{\circ}$
5.5	Centering deviation	$\leq 1^{\circ}$
5.6	Neutral position	1500 μ sec
5.7	Dead band width	7 μ sec
5.8	Rotating direction	Counter Clockwise (900→2100 μ sec)
5.9	Pulse width range	900→2100 μ sec
5.10	Maximum travel	About 120° (900→2100 μ sec)
6. Dimensional Drawing :		
L23xW12.2xH29mm <div data-bbox="539 1368 1023 1839">  </div>		