SHENZHEN SKY STAR TECHNOLOGY CO.,LTD

Data Sheet of TD-8830MG Digital Servo Motor

Products Specifcation

Products Name : TD-8830MG Digital Servo Motor

1. Apply Environmental Conditon

No.	Item	Specifcation
1.1	Storage Temperature Range	-30°C ~ 80°C
1.2	Operating Temperature Range	-25°C ~ 70°C

2. Standard Test Environment

No.	Item	Specifcation
2.1	Temperature Range	-25°C ~ 70°C
2.2	Humidity Range	65%±10%

3. Mechanical Specification

No.	Item	Specifcation
3.1	Size	40.0*20.5*40.5mm
3.2	Weight	56g±5%
3.3	Gear type	5 Metal
3.4	Limit angle	360°
3.5	Bearing	2BB
3.6	Horn gear spline	25T Diameter: 5.9mm
3.7	Horn type	Plastic, POM
3.8	Case	Engineering plastics(PBT)+Aluminum alloy
3.9	Connector wire	320mm±5mm
3.10	Motor	Carbon brush motor
3.11	Splash water resistance	IP65

4.Electrical Specification

No.	Operat voltage	4.8V	8.4V
4.1	Idle current	200mA	220mA
4.2	No load speed	0.19sec/60°	0.15sec/60°
4.3	Runnig current	200mA	220mA
4.4	Peak stall torque	29.1kg.cm	31.5kg.cm
4.5	Stall current	2200mA±10%	2900mA±10%
4.6	Working voltage range	4.8-8.4V	

5. Control Specification

No.	Item	Specifcation
5.1	Command signal	Pulse width modification
5.2	Amplifier type	Digital controller
5.3	Pulse width range	500 ~ 2500usec
5.4	Neutral position	1500usec
5.5	Running degree	180°±3°(when 500 ~ 2500usec)
5.6	Dead band width	5 usec

5.7	Rotating direction	Counterclockwise (when 1000 ~ 2000usec)
6.Drawings:		**Wire and Plug:**



