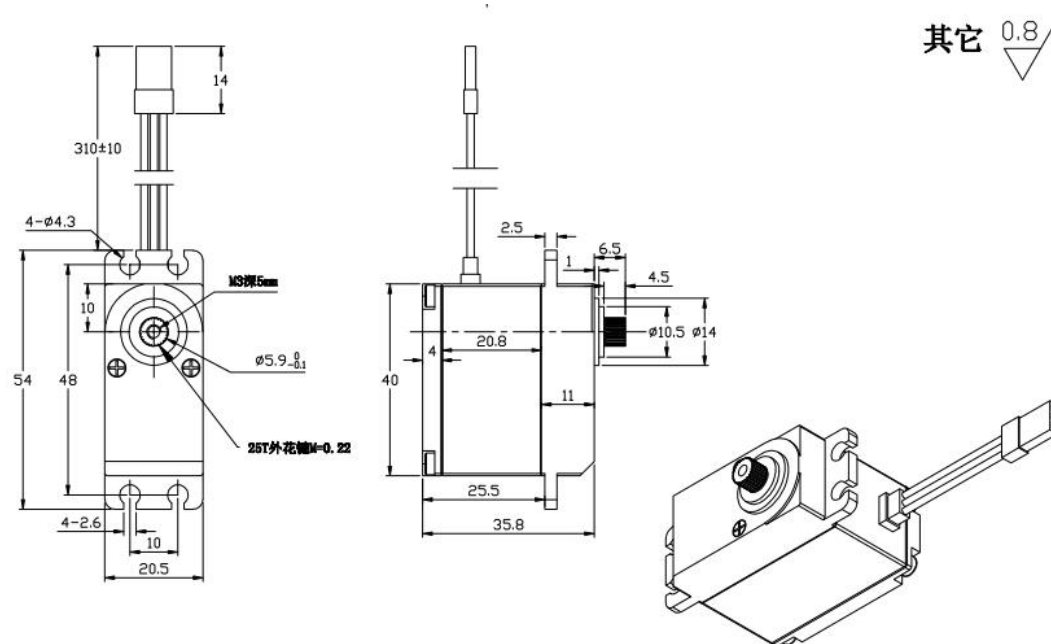


SHENZHEN SKY STAR TECHNOLOGY CO.,LTD						
Data Sheet of TK-35MG Digital Servo Motor						
Products Specifcation						
Products Name : TK-35MG 35KG Digital servo motor						
1. Apply Environmental Conditon						
No	Item		Specifcation			
1.1	Storage Temperature Range		-30℃～80℃			
1.2	Operating Temperature Range		-25℃～70℃			
2. Standard Test Environment						
No	Item		Specifcation			
2.1	Temperature Range		-25℃～70℃			
2.2	Humidity Range		65%±10%			
3. Mechanical Specification						
No	Item		Specifcation			
3.1	Size		40.8*20.2*35.8mm			
3.2	Weight		80g±5%			
3.2	Gear type		6 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		Aluminum alloy			
3.9	Connector wire		300mm±5mm			
3.10	Motor		Coreless			
3.11	Waterproof		IP66			
4. Electrical Specification						
No	Item		Specifcation			
4.1	Operat voltage		4.8V	6.0V	7.2V	8.4V
4.2	Idle current		< 40mA			
4.3	No load speed		0.18sec/60°	0.15sec/60°	0.12sec/60°	0.11sec/60°
4.4	Runnig current		210mA	260mA	350mA	450mA
4.5	Peak stall torque		34kg.cm	35.5kg.cm	36kg.cm	37.5kg.cm
4.6	Stall current		4000mA±10%	4300mA±10%	4800mA±10%	5200mA±10%
5. Control Specification						

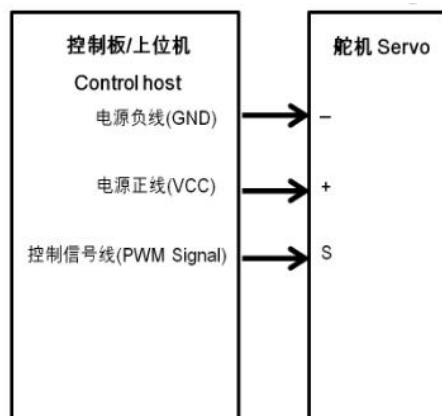
No	Item	Specifcation
5.1	Command signal	Pulse width modification
5.2	Amplifier type	Digital controller
5.3	Pulse width range	500~2500usec
5.4	Neutral position	1500usec
5.5	Running degree	180°±3°(when 500~2500usec)
5.6	Dead band width	3 usec
5.7	Rotating direction	Counterclockwise (when 1000~2000usec)

2. 2D Dimension Drawing :



Note: The dimension diagram of this product has an error of $\pm 0.2\text{mm}$ compared to the actual product dimensions .

3.Product Control :



Note: Operating Voltage : 4.8V-8.4V , Signal Voltage : 3.0-5.0V .
Signal Period :20ms, Pulse Width : 500us-2500us .