


MINI DC SERVO MOTOR
P/N: MNA-4760-S000

12V 60kg.cm Serial Control RS485 Servo

1. Apply Environmental Condition

No.	Item	Specification
1-1	Storage Temperature Range1-2	-30℃～80℃
	Operating Temperature Range	-20℃～80℃

2. Standard Test Environment

No.	Item	Specification
2-1	Temperature range2-2	25℃ ±5℃
	Humidity range	65%±10%

3. Mechanical Specification

No.	Item	Specification
3-1	Size	A: 62mm B: 34mm C: 40mm
3-2	Weight	180g
3-3	Gear type	Steel Gear(Gear Ratio 253:1)
3-6	Limit angle3-7 轴承	No Limiter
3.7	Bearing	2 Ball bearings
3-8	Horn gear spline3-9	15T(OD7.6mm)
3.9	Horn type	Aluminium
3-10	Case	Aluminium
3-11	Connector wire3-12	150mm ±5 mm(5264-4P)
3.12	Motor	coreless motor
3-13	防水性能 Splash water resistance	NO

4. Electrical Specification (Function of the Performance)

No.	Operating Voltage Range	12V	
4-1*	Idle current(at stopped)	40mA	
4-2*	No load speed	0.286sec/60degree 35RPM	
4-3*	Runnig current(at no load)	200 mA	
4-4	Peak stall torque	60kg. cm	
		834.7oz. in	
4-5	Stall current	2600 mA	
4-6	Rated Load	20kg. cm≤	
4-7	Rated current	800mA≤	
4-8	KM	16kg. cm/A	
4-9	Terminal resistance	3.13 Ω	

Note: "*"definition is average value when the servo runing with no load



5. Control Specification:

No.	Item	Specification
5-1	Command signal	Bus Packet Communication RS485
5-2	Protocol Type	Half duplex Asynchronous Serial Communication
5-3	ID range	0-253
5-4	Communication Speed	38400bps ~ 1 Mbps
5-5	Running degree	360° (when 0~4096)
5-6	Feedback	Load, Position, Speed, Input Voltage, Current, Temperature
5-7	Position Sensor (Resolution)	12Bits Magnetic Coding (360° /4096)

6. The Drawings

