2S57A Series - High Torque Stepper Motors

- 57mm Frame Size
- 1.8° Step Angle
- High Torque Up To 3.0 Nm
- High Step Accuracy and Resolution
- Low Vibration and Noise
- Shaft Flat as Standard
- Can be Customized for
 - Winding Current
 - Shaft Options
 - Cables and Connectors
- CE Certified RoHS Compliant



Kinco

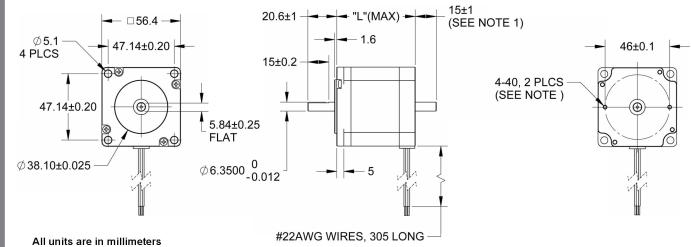
The 2S57A Series High Torque Step Motors offer a great value without sacrificing quality. These motors were designed to offer the highest possible torque while minimizing vibration and audible noise. A broad line of motor windings and stack lengths are available off-the-shelf, or the motors can be customized to fit your machine requirements. We can customize the winding to perfectly match your voltage, current, and maximum operating speed for maximum flexibility.

Model #	Frame Size (mm)	Bipolar Torque (Nm)	Bipolar Current (A)	Bipolar Voltage (V)	Bipolar Resistance (ohms)	Bipolar Inductance (mH)	Rotor Inertia (g-cm²)	Shaft Diameter (mm)	# Lead Wires	Weight (kg)	"L" Length (mm)
2S57A-056-014-4X	57	1.2	1.4	4.5	3.6	12.0	300	6.35	4	0.7	56
2S57A-056-021-4X	57	1.2	2.1	3.2	1.5	4.4	300	6.35	4	0.7	56
2S57A-076-014-4X	57	1.9	1.4	6.3	2.2	14.4	480	6.35	4	1.0	76
2S57A-076-021-4X	57	1.9	2.1	4.2	1.0	6.4	480	6.35	4	1.0	76
2S57A-115-021-4X	57	3.0	2.1	8.8	2.1	20.0	650	6.35	4	1.5	115

Notes: The 16th character "X" denotes a single or dual shaft. Use "S" for single shaft, or "D" for dual shaft. Dual shafts include encoder mounting provisions. Custom leadwires, cables, connectors, and windings are available upon request.

L011354

2S57A Series - High Torque Stepper Motors



Note 1: Applies to dual shaft option only

Connection	Lead Wire Connection	Lead Wire Color
4 - Lead Bipolar	Phase 1 (A) Phase 3 (A\) Phase 2 (B) Phase 4 (B\)	Black Green Red Blue
BLł	к —{(М)
GRN	۱	
	RED E	BLU

Step Angle Accuracy:	± 5% (Full Step, No Load)	Insulation Resistance:	100M Ohm Min, 500VDC
Max Axial Force:	15N	Dielectric Strength:	500VAC for 1 Minute
Inductance Accuracy:	± 20%	Shaft Radial Play:	0.02 Max (450g-load)
Temperature Rise:	80°C Max (2 Phases On)	End Play:	0.08 Max (450g-load)
Ambient Temperature:	-20° to +50° C	Max Radial Force:	75N (20mm from flange)
Insulation Type:	Class B		

L011354