

2S86A Series - High Torque Stepper Motors

Kinco

FEATURES

- 86mm Frame Size
- 1.8° Step Angle
- High Torque - Up To 12.0 Nm
- High Step Accuracy and Resolution
- Low Vibration and Noise
- Standard Keyway
- Can be Customized for
 - Winding Current
 - Shaft Options
 - Cables and Connectors
- CE Certified and RoHS Compliant



DESCRIPTION

The 2S86A 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.

SPECIFICATIONS

Model #	Frame Size (mm)	Bipolar Torque (Nm)	Bipolar Current (A)	Bipolar Voltage (V)	Bipolar Resistance (ohms)	Bipolar Inductance (mH)	Rotor Inertia (g-cm ²)	Shaft Diameter (mm)	# Lead Wires	Weight (kg)	"L" Length (mm)
2S86A-065-028-4X	86	3.3	2.8	3.7	1.3	8.5	1000	12.700	4	1.7	65
2S86A-080-028-4X	86	4.5	2.8	4.6	1.6	15.2	1400	12.700	4	2.3	80
2S86A-080-043-4X	86	4.5	4.3	3.4	0.7	6.8	1400	12.700	4	2.3	80
2S86A-118-025-4X	86	8.5	2.5	6.4	2.6	33.2	2700	12.700	4	3.8	118
2S86A-118-049-4X	86	8.5	4.9	4.1	0.8	9.2	2700	12.700	4	3.8	118
2S86A-156-025-4X	86	12.0	2.5	9.0	3.6	48.0	4000	15.875	4	5.4	156
2S86A-156-049-4X	86	12.0	4.9	5.5	1.1	14.2	4000	15.875	4	5.4	156

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.

L011355

910 East Orangefair Ln. Anaheim, CA 92801

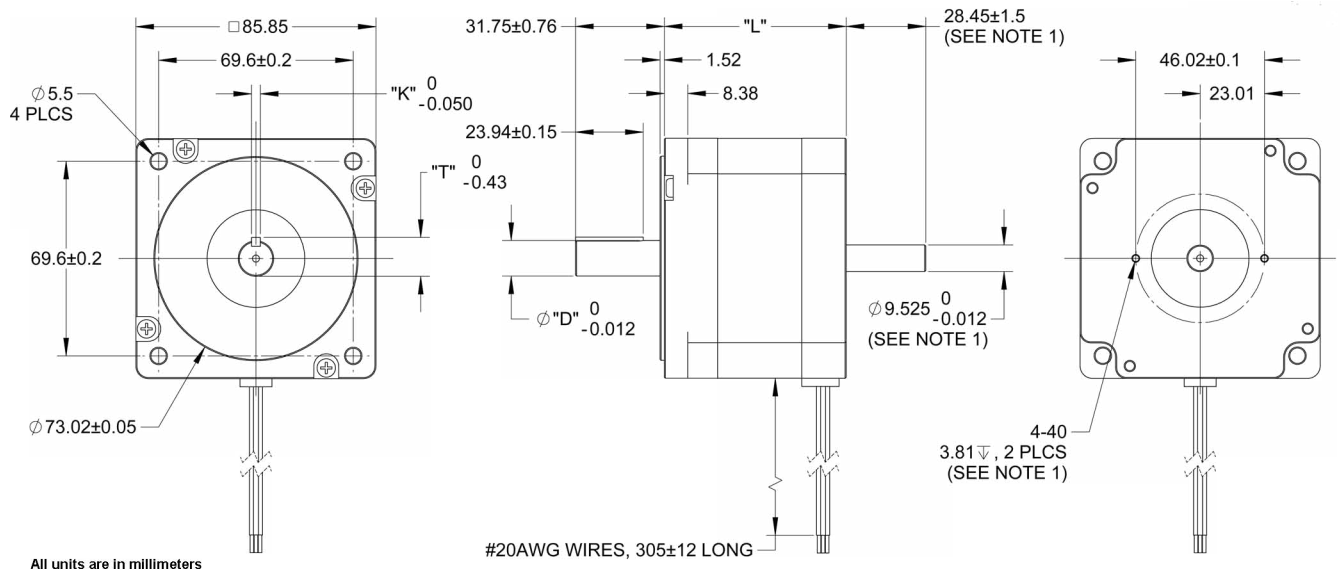
Tel. (714) 992-6990

Fax. (714) 992-0471

www.kincoautomation.com

2S86A Series - High Torque Stepper Motors **Kinco**

DIMENSIONS

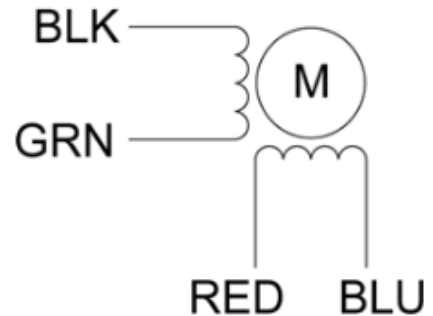


Note 1: Applies to dual shaft option only

Part Number	"D"	"K"	"T"	"L"
2S86A-065-XXX-8X	12.7	3.175	14.097	65
2S86A-080-XXX-8X	12.7	3.175	14.097	80
2S86A-118-XXX-8X	12.7	3.175	14.097	118
2S86A-156-XXX-8X	15.9	4.763	17.907	156

WIRING INFORMATION

Connection	Lead Wire Connection	Lead Wire Color
4 - Lead Bipolar	Phase 1 (A)	Black
	Phase 3 (A)	Green
	Phase 2 (B)	Red
	Phase 4 (B)	Blue



SPECIFICATIONS

Step Angle Accuracy:	±5% (Full Step, No Load)	Insulation Resistance:	100M Ohm Min, 500VDC
Max Axial Force:	60N	Dielectric Strength:	820VAC, 1 sec, 3mA
Inductance Accuracy:	±20%	Shaft Radial Play:	0.02 Max (450g-load)
Temperature Rise:	80° C Max (2 Phases On)	Shaft Axial Play:	0.08 Max (450g-load)
Ambient Temperature:	-20° to +50° C	Max Radial Force:	220N (20mm from flange)
Insulation Type:	Class B		