

2S28A Series - High Torque Stepper Motors

Kinco

FEATURES

- **28mm Frame Size**
- **1.8° Step Angle**
- **High Torque - Up To 0.11 Nm**
- **High Step Accuracy and Resolution**
- **Low Vibration and Noise**
- **Can be Customized for**
 - **Winding Current**
 - **Shaft Options**
 - **Cables and Connectors**
- **CE Certified and RoHS Compliant**



DESCRIPTION

The 2S28A Series High Torque Step Motors come in a small package with high torque density. These 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 board line of motor windings and stack lengths are available off-the-shelf, or the motors can be customized to fit your machine requirements. The standard 4 lead wire motors can be connected to allow the flexibility for your voltage, current, and maximum operating speed.

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)
2S28A-032-007-4X	28	0.05	0.7	3.92	5.6	3.4	9	5	4	.11	32
2S28A-045-007-4X	28	0.09	0.7	4.76	6.8	4.9	12	5	4	.14	45
2S28A-051-007-4X	28	0.11	0.7	6.44	9.2	7.2	18	5	4	.20	51

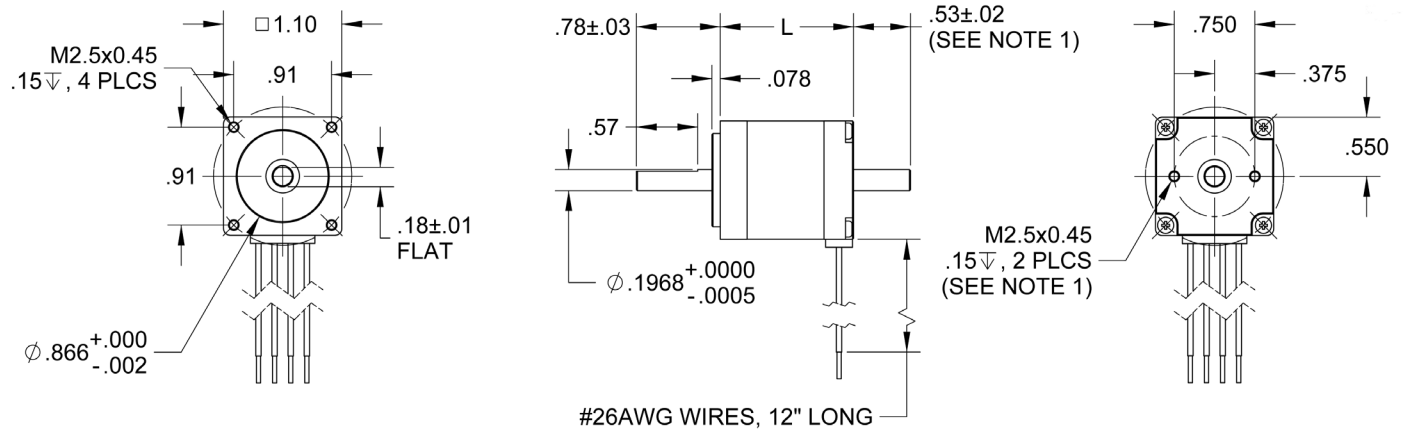
Notes: The 16th character "X" denotes a single or dual shaft. Use "S" for single shaft, or "D" for dual shaft. Dual shafts include encoder mounting provisions. Custom leadwires, cables, connectors, and windings are available upon request.

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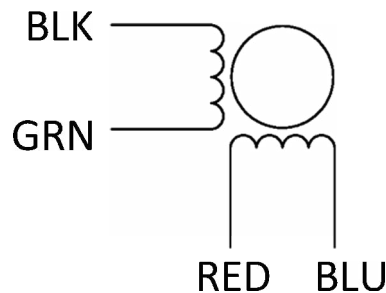
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DIMENSIONS



Note 1: Dual Shaft option only

WIRING INFORMATION



SPECIFICATIONS

Step Angle	1.8°
Step Angle Accuracy	±5% (full step, no load)
Resistance Accuracy	±10% @ 20°C
Inductance Accuracy	±20% @ 1kHz
Temperature Rise	80°C Max. (rated current, 2 phase on)
Ambient Temperature	-20°C~+50°C
Insulation Resistance	100MΩMin. , 500VDC
Dielectric Strength	500VAC for one minute
Shaft Radial Play	0.02Max. (450 g-load)
Shaft Axial Play	0.08Max. (450 g-load)
Max. Radial Force	28N (20mm from the flange)
Max. Axial Force	10N

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