

## 2S20A Series - High Torque Stepper Motors

# Kinco

### FEATURES

- **20mm Frame Size**
- **1.8° Step Angle**
- **High Torque - Up To 0.03 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 2S20A Series High Torque Stepper Motors offer high torque in a compact size. 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. The motor comes in a standard 4-lead configuration. We can also customize the winding to perfectly match your voltage, current, and maximum operating speed. Special shaft modifications, cables and connectors are also available upon request.

### SPECIFICATIONS

Model #	Frame Size (mm)	Bipolar Torque (Nm)	Bipolar Current (A)	Bipolar Voltage (V)	Bipolar Resistance (ohms)	Bipolar Inductance (mH)	Rotor Inertia (g-cm <sup>2</sup> )	Shaft Diameter (mm)	# Lead Wires	Weight (kg)	"L" Length (mm)
2S20A-030-006-4X	20	0.02	0.6	3.90	6.5	1.9	2.0	4	4	.06	30
2S20A-042-008-4X	20	0.03	0.8	4.32	5.4	1.5	2.0	4	4	.06	42
2S20A-048-011-4X	20	0.03	1.1	3.52	3.2	1.1	4.3	4	4	.09	48

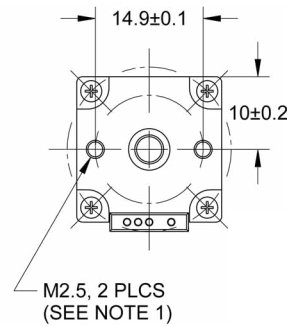
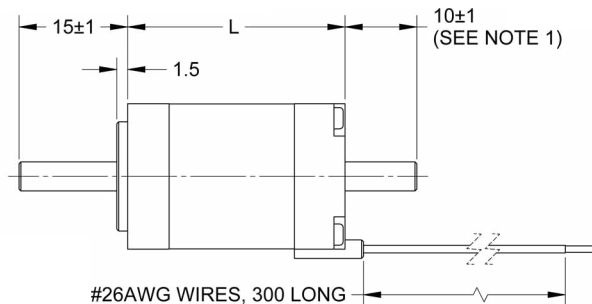
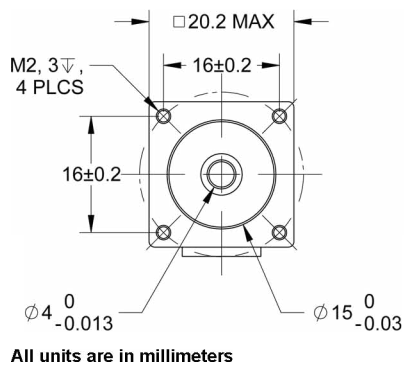
Notes: The 16th character "X" denotes a single or dual shaft. Use "S" for single shaft, or "D" for dual shaft. Dual shafts include encoder mounting provisions. Custom leadwires, cables, connectors, and windings are available upon request.

L011343

# 2S20A - High Torque Stepper Motors

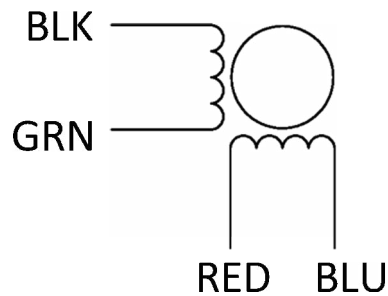
# Kinco

## 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	10N
Max. Axial Force	4N