

5014-820

NEMA 14 Step Motor



Product Features

- 2-phase hybrid step motor
- Standard NEMA 14 dimensions



Description




The 5014-820 two-phase stepper motor is suitable for a wide range of motion control applications.

Specifications

Part Number	5014-820
Frame Size	NEMA 14
Motor Type	Standard torque
Part Number w/Double Shaft	NA
Part Number w/Encoder	NA
Motor Length	1.00 inches
Number of Lead Wires	4
Lead Wire Configuration	flying leads, no connector
Lead Wire/Cable Length	12 inch
Lead Wire Gauge	26 AWG
Unipolar Holding Torque	NA
Bipolar Holding Torque	8.0 oz-in
Step Angle	1.8 deg
Bipolar Series Current	NA
Bipolar Series Resistance	NA
Bipolar Series Inductance	NA

Bipolar Parallel Current	0.35 A/phase
Bipolar Parallel Resistance	8.3 Ohms/phase
Bipolar Parallel Inductance	7.5 mH/phase
Unipolar Current	NA
Unipolar Resistance	NA
Unipolar Inductance	NA
Rotor Inertia	1.32E-04 oz-in-sec ²
Integral Gearhead	No
Weight	0.3 lbs
Storage Temperature	-40 to 70 °C
Operating Temperature	-10 to 40 °C
Insulation Class	Class B (130 °C)
Maximum Radial Load	NA
Maximum Thrust Load	NA
Shaft Run Out	0.001 inch T.I.R. max
Radial Play	0.0004 inch max w/ 1.0 lb load
End Play	0.0004 inch max w/ 2.0 lb load
Perpendicularity	0.003 inches
Concentricity	0.002 inches

Downloads

Datasheet	 StepMotorWiring-4-lead.pdf
2D Drawing	 5014-820 rev E.pdf
3D Drawing	 141825.igs
Speed-Torque Curves	There are currently no Speed-Torque Curves documents available for this product.
Agency Approvals	There are no related agency approval documents at this time.
Application Notes	There are currently no Application Notes available for this product.