



Series Features

- Measures only 15 mm in diameter, 15.5 mm in thickness
- A step angle of 18 degrees (or 20 steps per resolution)
- 0.63 watts input power per winding
- Weight: 14.0g / 0.5 oz
- Permanently lubricated sintered bronze bearings
- Available in bipolar construction only
- Superior torque performance
- Excellent for open-loop systems
- Widely used frame size in various industries

Technical Specifications

Part Number	15M020D1B-N
DC operating voltage	5
Resistance per winding (ohms)	40 ± 10%
Inductance per winding (mH)	14 ± 20%
Holding torque* (mNm / oz. in)	3.87 / .55
Rotor moment of inertia (g.m ²)	1.15 x 10 ⁻⁵
Detent torque (mNm / oz.-in)	1.62 / .23
Step angle	18°
Step angle tolerance*	± 1.5°
Steps per revolution	20
Maximum operating temperature	100°C
Ambient temperature range	
operating	-20°C to 70°C
storage	-40°C to 85°C
Bearing type	Sintered bronze sleeve
Insulation resistance at 500Vdc	100 megohms
Dielectric withstanding voltage	450 ± 50 VRMS for 2 seconds
Weight (g/oz)	14 / 0.5
Leadwires	28 AWG, UL Style 1429

*Measured with 2 phases energized