

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

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Part Number 15	
rait Nullibel 13	5M020D1B-N
DC operating voltage 5	
Resistance per winding (ohms) 40	0 ± 10%
Inductance per winding (mH) 14	$4 \pm 20\%$
Holding torque* (mNm / oz. in) 3.8	87 / .55
Rotor moment of inertia (g.m²) 1.1	15 x 10 ⁻⁵
Detent torque (mNm / ozin) 1.6	62 / .23
Step angle 18	3°
Step angle tolerance* \pm	1.5°
Steps per revolution 20	
Maximum operating temperature 10	00℃
Ambient temperature range	
operating -20	0°C to 70°C
storage -40	0°C to 85°C
Bearing type Sin	ntered bronze sleeve
Insulation resistance at 500Vdc 10	00 megohms
Dielectric withstanding voltage 45	50 ± 50 VRMS for 2 seconds
Weight (g/oz) 14	4 / 0.5
Leadwires 28	3 AWG, UL Style 1429

^{*}Measured with 2 phases energized

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