



20M020D

Series Features

- 18° Step Angle (or 20 steps per resolution)
- 1.25 Watts input power per winding
- Permanently lubricated sintered bearings
- Available in unipolar or bipolar construction
- Superior torque performance
- Excellent for open-loop systems
- Widely used frame size in various industries

Technical Specifications

Part Number	Unipolar		Bipolar	
	20M020D1U	20M020D2U	20M020D1B	20M020D2B
DC operating voltage	5	12	5	12
Resistance per winding (ohms)	20	115.2	20	115.2
Inductance per winding (mH)	3.9	20.3	7.8	52.8
Holding torque* (mNm / oz. in)		7.77 / 1.10	11.30 / 1.60	
Rotor moment of inertia (g.m ²)		4.1×10^{-5}		
Detent torque (mNm / oz.-in)		3.53 / 0.50		
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)		23.5 / .83		
Leadwires		28 AWG, UL Style 1429		

*Measured with 2 phases energized