



Note: This datasheet has been compiled using performance data and test results provided by the original manufacturer. Specifications and performance curves represent typical values and may vary slightly depending on operating conditions.

1020 Coreless motor 7.4v

General Information

Model: FM-1020H-256D

Motor Type: Coreless DC Motor

Rated Voltage: 7.4 V

Rotation Direction: CW

Noise Level: ≤ 47 dB

Electrical Characteristics

Rated Voltage: 7.4 V

No-Load Speed: 40,400 rpm

No-Load Current: 61 mA

Maximum Efficiency: 81.99 %

Speed @ Max Efficiency: 37,337 rpm

Current @ Max Efficiency: 744 mA

Performance Characteristics

Maximum Output Power: 16.1 W

Speed @ Max Power: 20,200 rpm

Current @ Max Power: 4.56 A

Stall Torque: 155.3 g·cm

Stall Current: 9.06 A

Motor Constants

Torque Constant: 17.2 g·cm/A

Speed Constant: 5496 rpm/V

Terminal Resistance: 0.8 Ω

Motor Regulation: 260.1 rpm/g·cm

Mechanical Dimensions

Shaft Length: ~ 5.3 mm

Shaft Diameter: ~ 0.8 mm

Motor Length: ~ 25.3 mm

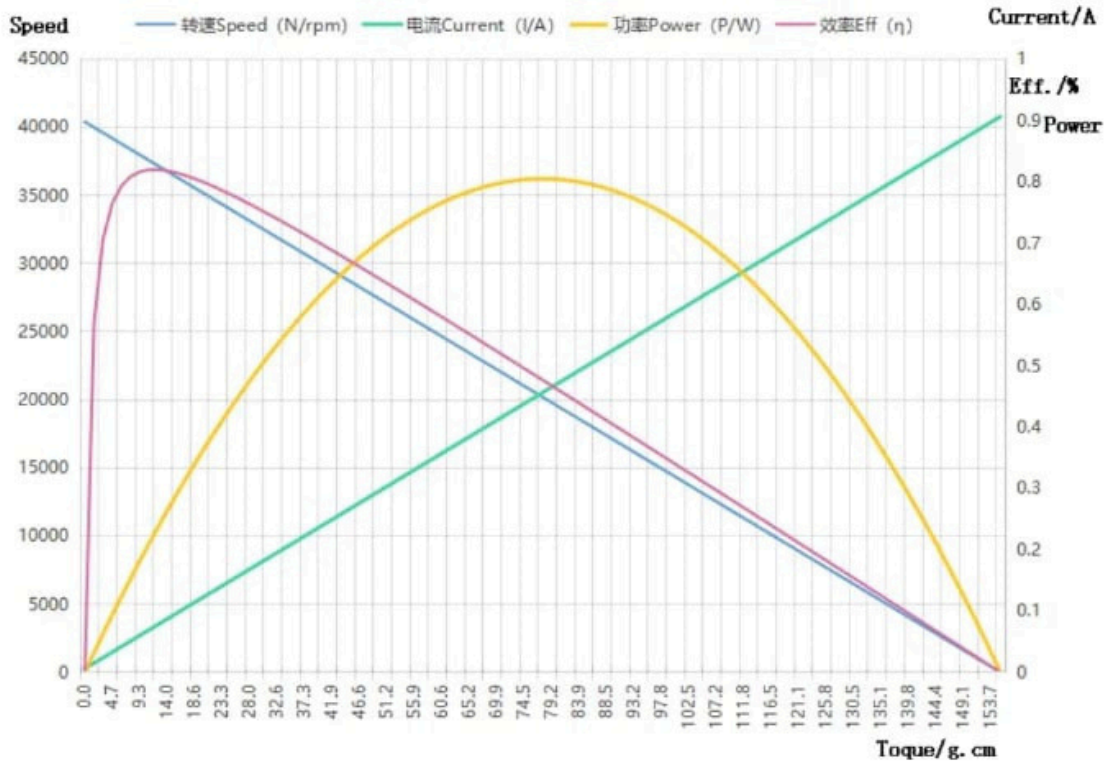
Typical Performance Curves

Speed vs Torque

Current vs Torque

Power vs Torque

Efficiency vs Torque



Important Note

Performance data measured at 7.4 V under laboratory conditions. Actual performance may vary depending on load, temperature, and operating environment.

Dimensions

