

FEATURES

- High Torque Stepper Motors
- Hybrid technologies
- Permanent magnet

RS PRO Hybrid, Permanent Magnet Stepper Motor, 3.8 V, 5mm Shaft Diameter

RS Stock No.: 535-0344



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

Product Description

High Torque Hybrid Stepper Motors are motion systems allowing to have a high positioning precision. With their high power already at low speed, their stall torque and the possibility to divide the steps in micro steps, stepper motors can provide direct and precise motions in a small volume

General Specifications

Stepper Motor Type	Hybrid, Permanent Magnet Stepper
Step Angle	1.8°
Step Angle Accuracy (Full Step, No Load)	±5%
Holding Torque	60mNm
Detent Torque	5mNm
Output Speed	186rpm
Number of Pole Pairs	1
Applications	Floppy disk drives, flatbed scanners, computer printers, plotters, slot machines

Electrical Specifications

Voltage Rating	3.8V
Current Per Phase	670mA
Number Of Wires	4
Winding Arrangement	Bipolar; Parallel; Series; Unipolar; Unparallel
Resistance Per Phase	5.6Ohm
Resistance Accuracy	±10%
Inductance Per Phase	6.7mH
Inductance Accuracy	±20%
Rotor Inertia	54g-cm ²
Insulation Resistance	100MOhm min. 500VDC
Dielectric Strength	500VAC for one minute
Insulation Class	B

Mechanical Specifications

Shaft Diameter	5mm
Shaft Length	22mm
Depth	32mm
Frame Size	28mm x 28mm
Weight	0.28kg
Shaft Radial Play	0.02 Max. (450G Load)
Shaft Axial Play	0.08 Max. (450G Load)
Maximum Radial Force	28N (20mm from front flange)
Maximum Axial Force	10N

Operation Environment Specifications

Maximum Temperature Rise	80°C
Ambient Temperature	-20°C to 50°C
Ambient Humidity	85% Max. (No Condensation)

Protection Category

IP Rating	IP65; IP54
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Approvals

Compliance/Certifications	CE / CSA / UL94-V0
Standards Met	NEMA-17, RoHS Compliant



