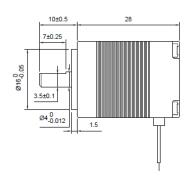
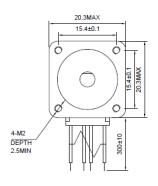
NEMA 8



stepper motor 8HS11-0204S

 $\frac{http://www.omc-stepperonline.com/nema-820x28mm-18deg-02a-smallest-stepper-motor-8hs110204s-p-81.html}{}$







Body length: 28 mm Shaft Length: 10 mm Width: 20.3 mm Step: 1.8 deg

Electrical Specification

Manufacturer Part Number	8HS11-0204S
Motor Type	Bipolar Stepper
Step Angle	1.8°
Holding Torque	1.6Ncm(2.3oz.in)
Rated Current/phase	0.2A
Phase Resistance	24ohms
Recommended Voltage	12-24V
Inductance	8mH±20%(1KHz)

Physical Specification

Frame Size	20 x 20mm
Body Length	28mm
Shaft Diameter	Φ4mm
Shaft Length	10mm
D-cut Length	7mm
Number of Leads	4
Lead Length	300mm
Weight	60g

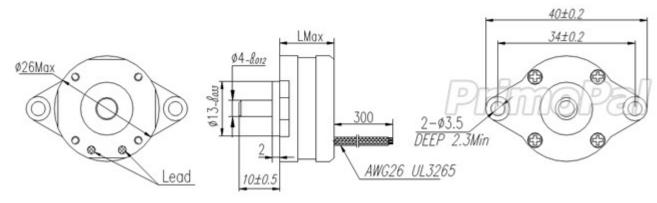
NEMA 11

PrimoPal

PHB26K- Ø26mm Round Step Motor

http://www.primopal.com/web/Product4 GoodsID 7.html





Body length (Lmax): 13.5 mm

Shaft Length: 10 mm Diameter: 26 mm Step: 1.8 deg

Step Angle	1.8°
Step Angle Accuracy	±5% (full step, no load)
Resistance Accuracy	±10%
Inductance Accuracy	±20%
Temperature Rise	80 °C Max. (rated current, 2 phase on)
Ambient Temperature	-10 °C ~ +50 °C
Insulation Resistance	100 MΩ Min., 500VDC
Dielectric Strength	500 VAC for one minute
Shaft Radial Play	0.02 Max. (450 g-load)
Shaft Axial Play	0.08 Max. (450 g-load)
	•

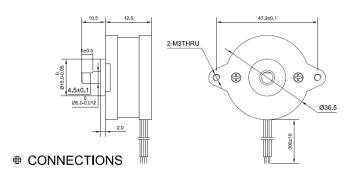
NEMA 14



.9deg Thin Stepper Motor 12.5mm 0.5A 7Ncm(10oz.in) 14HR05-0504S

 $\underline{http://www.omc-stepperonline.com/9deg-thin-stepper-motor-125mm-05a-7ncm10ozin-14hr050504s-p-88.html}\\$

DIMENSIONS unit=mm





Body length: 12.5mm Shaft Length: 10.5 mm Diameter: 36.5mm

Step: 0.9 deg

Electrical Specification

Manufacturer Part Number 14HR05-0504S Motor Type Bipolar Stepper

Step Angle 0.9°

Holding Torque 7Ncm(10oz.in)

Rated Current/phase 0.5A
Phase Resistance 17ohms
Recommended Voltage 12-24V

Inductance 7.5mH±20%(1KHz)

Physical Specification

Frame Size \$\Phi36mm\$

Body Length \$12.5mm\$

Shaft Diameter \$\Phi5mm\$

Shaft Length \$10.5mm\$

D-cut Length \$5mm\$

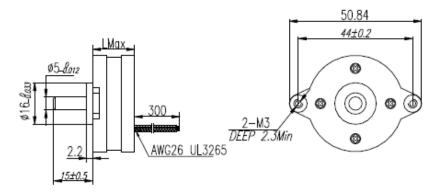
Number of Leads \$4\$

Lead Length 300mm Weight 50g



PHB36D - Ø36mm Round Step Motor

http://www.primopal.com/web/Product4 GoodsID 17.html





Body length (Lmax): 13.5mm

Shaft Length: 15 mm Diameter: 36mm Step: 0.9 deg

Step Angle	0.9°
Step Angle Accuracy	±5% (full step, no load)
Resistance Accuracy	±10%
Inductance Accuracy	±20%
Temperature Rise	80 °C Max.(rated current, 2 phase on)
Ambient Temperature	-10 °C ~ +50 °C
Insulation Resistance	100 MΩ Min., 500VDC
Dielectric Strength	500 VAC for one minute
Shaft Radial Play	0.02 Max. (450 g-load)
Shaft Axial Play	0.08 Max. (450 g-load)
	•



3809 Series

Xtreme Accuracy Stepper Motor

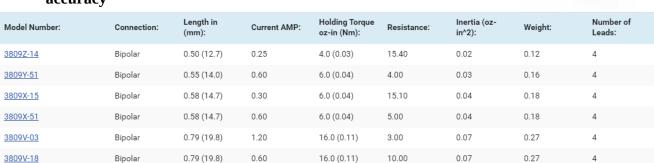
http://www.linengineering.com/products/stepper-motors/3809-series/

Body length: 12.7 / 14.0 / 14.7 / 19.8 mm

Step: 0.9 deg

• Signature Series Technology for ultimate smooth motion and high accuracy

Smooth Step Xtreme Accuracy



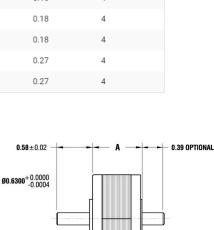
Ø1.43 MAX

Ø0.1965^{+0.0000}

3809Z-14:

Shaft Length: 14.7 mm

Diameter: 36mm	
Specifications:	
Step Angle:	0.9 Degree
Frame Size:	NEMA 14
Body Length (in):	0.50
Body Length (mm):	12.7
Current (AMP):	0.25
Holding Torque (oz-in):	4.0
Holding Torque (N-m):	0.03
Resistance:	15.40
Max Optimal Speed (RPS):	22
Rotor Inertia (oz-in2):	0.02
Number of leads:	4
Connection:	Bipolar
Weight (lbs):	0.12



12" MIN. LENGTH

0.065±0.010

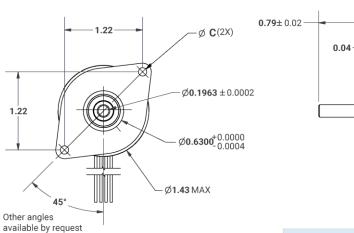


3709 Series

Xtreme Accuracy Stepper Motor

Μοντέλα: 3709Ζ-14 , 3709Ζ-12, 3709Υ-51, 3709Χ-15

http://www.linengineering.com/products/stepper-motors/3709-series/





Body length: 14.0 / 15.0 Shaft Length: 20 mm Diameter: 36mm

Step: 0.9 deg

 Signature Series Technology for ultimate smooth motion and high accuracy

Specifications:	
Step Angle:	0.9 Degree
Frame Size:	NEMA 14
Body Length (in):	0.55
Body Length (mm):	14.0
Current (AMP):	0.25
Holding Torque (oz-in):	4.0
Holding Torque (N-m):	0.03
Resistance:	15.40
Max Optimal Speed (RPS):	16
Rotor Inertia (oz-in2):	0.02
Number of leads:	4
Connection:	Bipolar
Weight (lbs):	0.12
Branding:	Smooth Step Xtreme Accuracy