

PHH42S Series

● Key Features

- Small Size
- High Accuracy
- Low Inertia



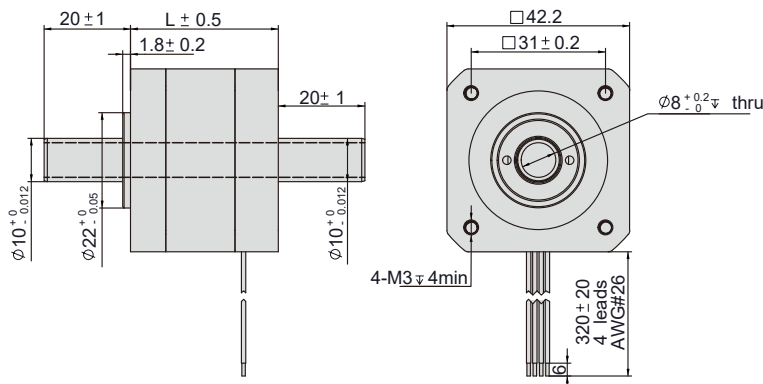
Step Angle	1.8°
Step Angle Accuracy	±5% (full step, no load)
Resistance Accuracy	±10%
Inductance Accuracy	±20%
Temperature Rise	80 °C Max.(rated current, 2 phase on)
Ambient Temperature	-20 °C ~ +50 °C
Insulation Resistance	100 MΩ Min., 500VDC
Dielectric Strength	500 VAC for one minute
Shaft Radial Play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

● Specifications

- Bi-polar

Series & Length	Model Number	Holding Torque		Rated Current	Resistance per phase	Inductance per phase	Detent Torque		Rotor Inertia	
		N.cm	oz-in	A	ohm	mH	N.cm	oz-in	g.cm ²	oz-in ²
PHH42S20 20mm	PHH42S20-410	10	14	0.8	3.8	4.5	1.0	1.4	24	0.132
PHH42S28 28mm	PHH42S28-406	12	16.8	0.6	8.0	10	1.2	1.68	30	0.165
PHH42S34 34mm	PHH42S34-401	28	39.2	1.3	2.4	2.8	1.6	2.24	34	0.187
PHH42S40 40mm	PHH42S40-402	40	56	1.7	1.5	2.8	2.2	3.08	54	0.297
PHH42S48 48mm	PHH42S48-403	52	72.8	2.3	1.2	1.6	2.6	3.64	68	0.374
PHH42S60 60mm	PHH42S60-403	70	98	2.3	1.4	2.5	3.6	5.04	80	0.440
PHH42S63 63mm	PHH42S63-403	80	112	2.3	1.5	2.2	4.0	5.6	85	0.468

● Mechanical Dimension



Series	L	Mass
	mm (in.)	g (lb.)
PHH42S20	20 (0.79)	120 (0.26)
PHH42S28	28 (1.10)	150 (0.33)
PHH42S34	34 (1.34)	220 (0.49)
PHH42S40	40 (1.57)	280 (0.62)
PHH42S48	48 (1.89)	350 (0.77)
PHH42S60	60 (2.36)	480 (1.06)
PHH42S63	63 (2.48)	500 (1.10)

2Phase Hybrid Stepper Motor

3Phase Hybrid Stepper Motor

5Phase Hybrid Stepper Motor

Hybrid Stepper Gear Motor

Lead Screw Linear Actuator

Ball Screw Linear Actuator

IP65 Stepper Motor

Hollow Shaft Stepper Motor

Stepper Motor With Brake

Pancake Stepper Motor

PM Stepper Motor

Can-Stack Stepper Linear Actuator

PM Stepper Gear Motor

Stepper Motor Drive