

PHB57K Series

● **Key Features**

- High Acceleration
- Low Noise
- Low Inertia

● **Option**



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**

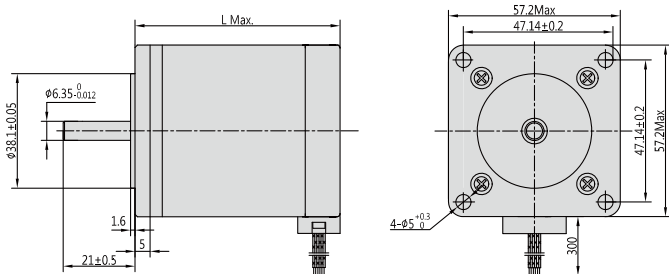
- Bi-polar

Series & Length	Model Number	Holding Torque		Rated Current	Resistance per phase	Inductance per phase	Detent Torque		Rotor Inertia	
		N.cm	oz-in				N.cm	oz-in	g.cm ²	oz-in ²
PHB57K41 41mm	PHB57K41-401	22	30.8	1.55	1.8	3.5	3.5	4.9	60	0.330
	PHB57K41-402	32	44.8	2.1	0.8	1.4	3.5	4.9	60	0.330
PHB57K51 51mm	PHB57K51-401	62	86.8	1.4	2.5	6.2	5.5	7.7	118	0.649
	PHB57K51-402	62	86.8	2.0	1.3	3.2	5.5	7.7	118	0.649
PHB57K56 56mm	PHB57K56-401	80	112	2.5	1.2	3.0	6.5	9.1	145	0.798
PHB57K76 76mm	PHB57K76-402	110	154	4.2	0.6	1.4	9.5	13.3	230	1.265
	PHB57K76-403	110	154	2.1	2.2	6.2	9.5	13.3	230	1.265
	PHB57K76-404	110	154	3.6	0.8	2.2	9.5	13.3	230	1.265

- Uni-polar

Series & Length	Model Number	Holding Torque		Rated Current	Resistance per phase	Inductance per phase	Detent Torque		Rotor Inertia	
		N.cm	oz-in				N.cm	oz-in	g.cm ²	oz-in ²
PHB57K41 41mm	PHB57K41-602	24	33.6	1.5	1.5	1.4	3.5	4.9	60	0.330
PHB57K51 51mm	PHB57K51-603	45	63	1.4	2.5	3.2	5.5	7.7	118	0.649
PHB57K56 56mm	PHB57K56-602	60	84	1.2	5.0	6.8	6.5	9.1	145	0.798
	PHB57K56-604	60	84	2.4	1.0	1.2	6.5	9.1	145	0.798

● **Mechanical Dimension**



Series	L		Mass	
	mm (in.)	g (lb.)	g (lb.)	g (lb.)
PHB57K41	41 (1.61)	450 (0.99)		
PHB57K51	51 (2.0)	600 (1.32)		
PHB57K56	56 (2.20)	650 (1.43)		
PHB57K76	76 (2.99)	850 (1.87)		