



Dimensions in mm.

Electrical Data	PH010 064			Unit
	020 20	010 02	003 02	
1 Resistance per Phase, typ	19.0	10.0	3.0	Ohms
2 Inductance per Phase, typ	8.4	4.2	1.3	mH
3 Nominal Phase Current (2 ph. On)	0.15	0.20	0.37	A
4 Nominal Phase Current (1 ph. On)	0.21	0.28	0.52	A
5 Back EMF Amplitude	3.00	2.25	1.21	V/kstep/s
General Data				
6 Holding Torque, nominal current	2.4 (0.34)			mNm (oz-in)
7 Holding Torque, 1.5x nominal current (1)	3.6 (0.51)			mNm (oz-in)
8 Detent Torque	1.1 (0.16)			mNm (oz-in)
9 Rotor Inertia	0.070			kgm ² x 10 ⁻⁷
10 Step Angle	15			Degree
11 Absolute Accuracy 2 ph. On, Full step mode	+/- 5%			% Full Step
12 Steps Per Revolution	24			
13 Ambient Temperature Range (operating)	-20 to 50 (-4 to 122)			°C (°F)
14 Maximum Coil Temperature	130 (266)			°C (°F)
15 Thermal Resistance Coil-ambient (2)	100			°C/W
16 Natural Resonance Frequency (nominal current)	229			Hz
17 Electrical Time Constant	0.42			ms
18 Angular Acceleration (nominal current)	343,775			rad/s ²
19 Bearing Type	Ball			
20 Dielectric Withstanding Voltage	500 VRMS for 5 seconds			VAC
21 Radial Shaft Play	30@2N			µm
22 Axial Shaft Play	40@2N			µm
23 Maximum Radial Shaft Load	2.5 (9)			N (oz)
24 Maximum Axial Shaft Load (3)	2.5 (9)			N (oz)
25 Weight	9 (0.32)			g (oz)
26 Power Rate (nominal current)	0.5			kW/s

Notes:

1. Measured with 1 phase ON. The max coil temperature must be respected
2. Motor unmounted
3. Shaft must be supported when press-fitting a pulley or pinion

