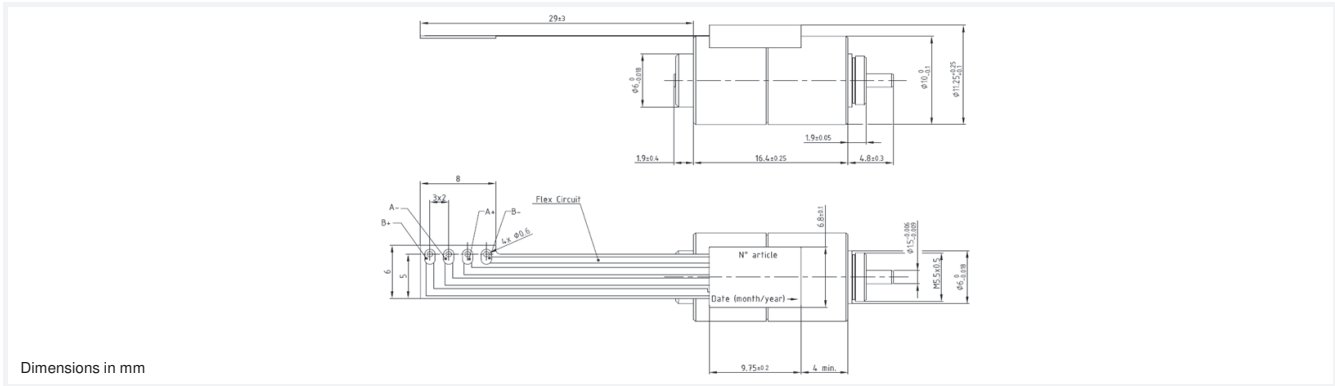


PH010 064

Ø10mm

2.4 mNm



Dimensions in mm

PH010 064

Electrical Data	PH010 064 020 02	PH010 064 010 02	PH010 064 003 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
<b>Coil independent parameters</b>				
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 <sup>2</sup> x 10 <sup>-7</sup>
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 <sup>2</sup>
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

- (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

