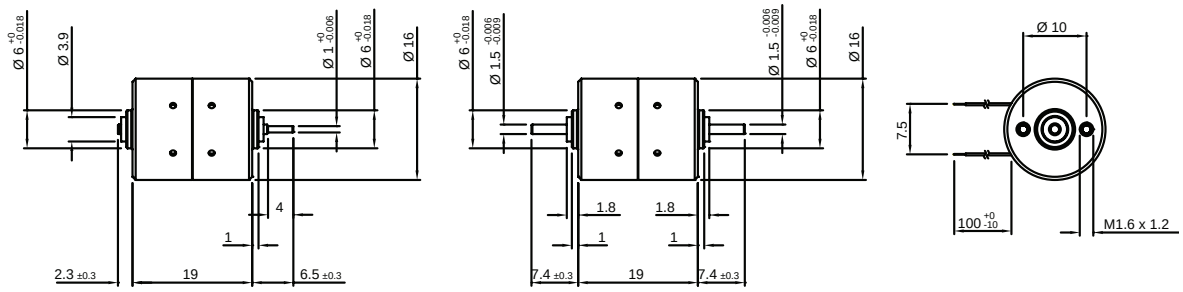
Turbo Disc™ P110

24 steps/revolution
15º step angle



P110 • 064 ▪▪ • 08 **P110 • 064 ▪▪ • 12**

Motor Part Number		P110 064 068 08/12	P110 064 015 08/12	P110 064 2.5 08/12
Rated voltage	vdc	12.00	6.00	3.00
Resistance per phase, ± 10%	ohms	62.00	15.00	2.50
Inductance per phase, typ	mH	46.00	12.00	2.20
Rated current per phase *	amps	0.12	0.25	0.65
Back-emf amplitude	V/kst/s	10.80	5.20	2.00
Holding torque, typical *	oz-in / mNm		1.0 / 7	
Detent torque, typical	oz-in / mNm		0.1 / 1	
Step angle, ± 10% *	degrees		15.0	
Steps per revolution *			24.0	
Natural resonance frequency (nominal current)	Hz		160.00	
Electrical time constant	ms		0.8	
Angular acceleration (nominal current)	rad/s²		167,000	
Thermal resistance	ºC/watt		45.0	
Rotor moment of inertia	oz-in-s²/ g-cm²		0.057 x 10E-4 / 0.4	
Ambient temperature range				
Operating	ºC		-20 ~ +50	
Storage	ºC		-40 ~ +85	
Bearing type			Sintered bronze sleeve (optional ball bearing on request)	
Insulation resisitance at 500vdc	Mohms		100 megohms	
Dielectric withstanding voltage	vac		300 for 5 seconds	
Weight	lbs / g		0.05 / 23	
Shaft load ratings, max at 1500 rpm				
Radial	lbs / N		0.11 / 0.5 (at shaft center)	
Axial	lbs / N		0.11 / 0.5 (both directions)	
Leadwires			Insulated Cable, AWG 26	
Temperature class, max			B (130°C)	
RoHS			COMPLIANT	

ALL MOTOR DATA VALUES AT 25ºC UNLESS OTHERWISE SPECIFIED
* ENERGISE AT RATED CURRENT, 2 PHASE ON