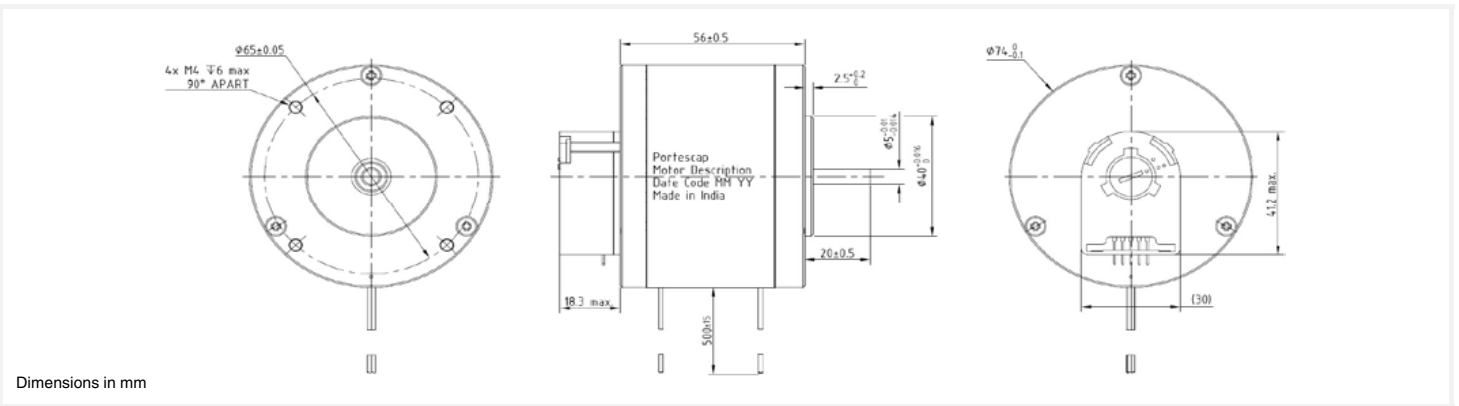


Disc Magnet Stepper Motors

P760 With Encoder

Ø74mm

325 mNm



P760 With Encoder

Electrical Data

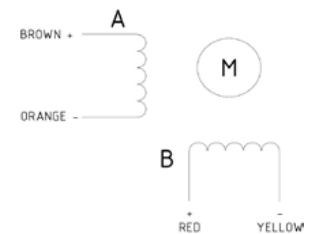
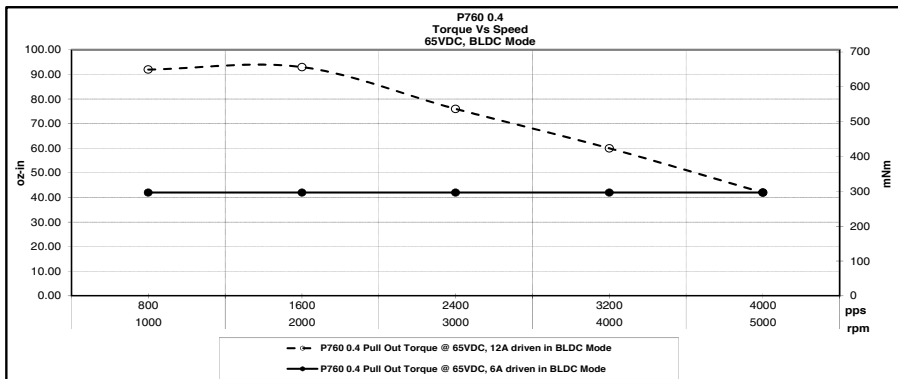
P760 0.4 05 HEDS 5540 A11

1	Resistance per Phase, typ	0.4	Ohms
2	Inductance per Phase, typ	2.1	mH
3	Nominal Phase Current (2 ph. On)	4.30	A
4	Nominal Phase Current (1 ph. On)	6.00	A
5	Back EMF Amplitude	7.10	V/kstep/s
Coil independent parameters			
6	Holding Torque, nominal current	325 (46)	mNm (oz-in)
7	Holding Torque, 1.5x nominal current (1)	485 (68.7)	mNm (oz-in)
8	Detent Torque	20 (2.8)	mNm (oz-in)
9	Rotor Inertia	17.0	kgm ² x 10 ⁻⁷
10	Step Angle	7.5	Degree
11	Absolute Accuracy 2 ph. On, Full step mode	+/- 5%	% Full Step
12	Steps Per Revolution	48	
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)	5	°C/W
16	Natural Resonance Frequency (nominal current)	240	Hz
17	Electrical Time Constant	4.70	ms
18	Angular Acceleration (nominal current)	190,000	rad/s ²
19	Bearing Type	Ball	
20	Dielectric Withstanding Voltage	500 VRMS for 5 seconds	VAC
21	Radial Shaft Play	25@5N	µm
22	Axial Shaft Play	25@5N	µm
23	Maximum Radial Shaft Load	20 (72)	N (oz)
24	Maximum Axial Shaft Load (3)	30 (108)	N (oz)
25	Weight	700 (25)	g (oz)
26	Power Rate (nominal current)	58.0	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



V121616