



AIR BEARING POSITIONING STAGE SPECIFICATIONS			
Motor P/N	BLDM-D04		
Stroke	21.3 in	541 mm	
Encoder Resolution	1 micron		
Bearing Type	Air		
Moving Mass	12 lbs	5.4 kg	
Total Mass	105 lbs	47.6 kg	
Resistance @ 20C	18.2 ohms		
Inductance @ 20C	24.2 mH		
Electrical Time Constant	1.3 msec		
Motor Constant	2.6 LBS/SQRT(Watt)	11.6 N/SQRT(Watt)	
Force Constant	11.2 LBS/Amp	49.6 N/Amp	
Back EMF	1.3 V/ips	49.6 V/m/sec	
Force @ 100% Duty	16.5 lbs	73.6 N	
Power @ 100% Duty	51.8 watts		
Current @ 100% Duty	1.5 amps		
Force @ 10% Duty	49 lbs	220 N	
Power @ 10% Duty	466 watts		
Current @ 10% Duty	4.4 amps		
Stage Length	30.44 in	773 mm	
Stage Width	12.0 in	305 mm	
Stage Height	5.50 in	140 mm	

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UNLESS SPECIFIED OTHERWISE:
All dimensions are in inches
Standard Tolerances are a follow
XXX ±.005 ANGLES ±.1.
XX ±.010 FILLETS .010
X ±.020 CORNERS .010
Remove All Burrs and Sharp Edges

FOR REFERENCE ONLY

MATERIAL	TITLE	
	Air Bearing Positioning Stage Model #:	P
FINISH	ABS-021-12-017-X	C

43-0188

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