



Wiring		
Motor		
Phase A	White/Red Stripe	
Phase B	White	
Phase C	White/Black Stripe	
Ground	White/Green Stripe	
Thermostat 1	Blue	
Thermostat 2	Orange	
Hall Effect		
Hall A	White	
Hall B	Red	
Hall C	Black	
Hall Ground	Green	
Hall Power (+5-24VDC)	Brown, Orange,	
	Violet, Yellow	

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20-0234

Motor Specifications			
BLDM-F16			
General			
Continuous Force	lbs [N]	173 [771]	
Continuous Current	Amps	5.2	
Continuous Power	Watts	364	
Peak Force @ 10% Duty	lbs [N]	517 [2300]	
Peak Current @ 10% Duty	Amps	15.6	
Peak Power @ 10% Duty	Watts	3276	
Electrical			
Force Constant	lbs/Amp [N/Amp]	33.24 [148.0]	
Back EMF	V/in/sec [V/m/sec]	3.76 [148.0]	
Resistance	Ohms	10.4	
Inductance	mH	13.4	
Electrical Time Constant	msec	1.3	
Km Motor Constant	lbs/sqW [N/sqW]	10.29 [45.8]	
Mechanical			
Electrical Cycle Length	in [mm]	2.4 [60.96]	
Number of Poles	16		
Coil Assembly Length	Coil Assembly Length		
with Hall Sensor	in [mm]	20.55 [522]	
without Hall Sensor	in [mm]	20 [508]	
Coil Assembly Weight	lbs [kg]	13 [5.91]	
Magnet Track Weight	lbs/in [kg/m]	1.9 [0.034]	

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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

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