





Motor Specifications		
BLSM-6F		
General		
Continuous Force	lbs [N]	600 [2700]
Continuous Current	Amps	7.7
Continuous Power	Watts	457
Peak Force @ 10% Duty	lbs [N]	1800 [8000]
Peak Current @ 10% Duty	Amps	23.1
Peak Power @ 10% Duty	Watts	4100
Electrical		
Force Constant	lbs/Amp [N/Amp]	78 [347]
Back EMF	V/in/sec [V/m/sec]	8.8 [347]
Resistance	Ohms	7.7
Inductance	mH	75
Electrical Time Constant	msec	9.7
Km Motor Constant	lbs/sqW [N/sqW]	28.1 [125]
Mechanical		
Electrical Cycle Length	in [mm]	2.4 [60.96]
Number of Poles	2	
Coil Assembly Length	in [mm]	34.0 [864]
Coil Assembly Weight	lbs [kg]	110 [49.9]

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