

## Linear Three Phase Brushless Ironless Motor

<b>FORCER LBF-032-048-161-01</b>			
<b>PERFORMANCE</b>			
Intermittent Force @ 10% Duty Cycle	55.3	lb	
	246.1	N	
Continuous Force @ 25 °C	17.5	lb	
	77.9	N	
Continuous Force @ Tmax	15.0	lb	
	66.7	N	
Continuous Power	66	W	
Motor Constant	2.2	lb/ W <sup>0.5</sup>	
	9.6	N/ W <sup>0.5</sup>	
<b>ELECTRICAL SPECIFICATIONS</b>			
	Wye	Delta	
Peak Current @ 10% Duty Cycle	6.3	11.0	A
Continuous Current @ Tmax	1.7	3.0	A
Force Constant	8.7	5.0	lb/A
	38.7	22.2	N/A
Back EMF	1.0	0.6	V/in/s
	38.7	22.2	V/m/s
Resistance @ 25 °C	16.6	5.5	Ohm
Inductance @ 1 KHz	5.8	1.9	mH



<b>MECHANICAL SPECIFICATIONS</b>		
Coil Assembly Mass	1.01	lb
	0.46	N
Magnetic Cogging Force	0	lb
	110	N
Magnetic Cogging Force	110	°C
Electrical Cycle Length	1.6	in
	40.6	mm
<b>ELECTRICAL SPECIFICATIONS</b>		
Thermal Time Constant	3	min
Thermal Resistance	2.24	°C/W

<b>MAGNETIC TRACK</b> <b>LBM-032-057-XXX-01</b>		
<b>DIMENSIONS</b>		
Width	1.25	in
	32	mm
Height	2.25	in
	57	mm
Length		
LBM-032-057-121-01	4.75	in
	121	mm
LBM-032-057-243-01	9.55	in
	243	mm
LBM-032-057-365-01	14.35	in
	365	mm
LBM-032-057-608-01	23.95	in
	608	mm
Mass		
All Models	0.58	lb/in
	10.3	Kg/m

xxx denotes the track length in mm. Available options are 121, 243, 365 and 608 mm.

Specifications are subject to change without notice.



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