

**Linear Brushless Ironless Three Phase Motor
LBIM-021-04 Series**

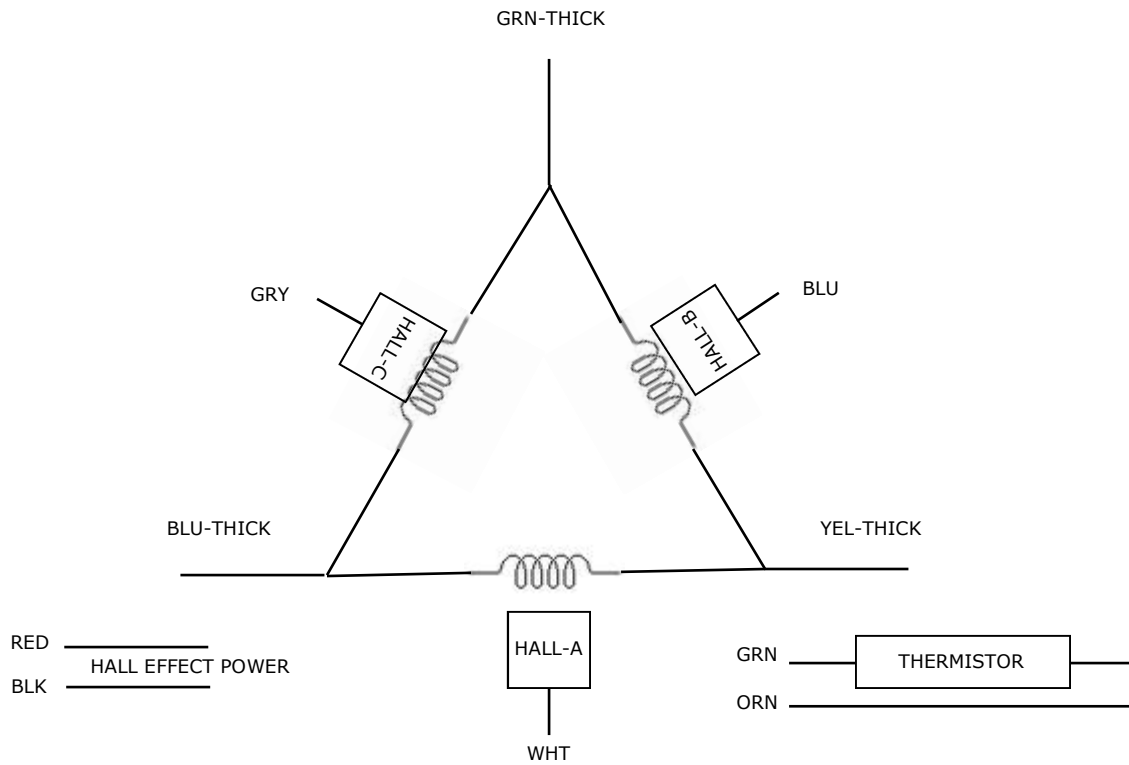
motiCont

MotiCont
6901 Woodley Avenue
Van Nuys, California 91406, USA
www.MotiCont.com

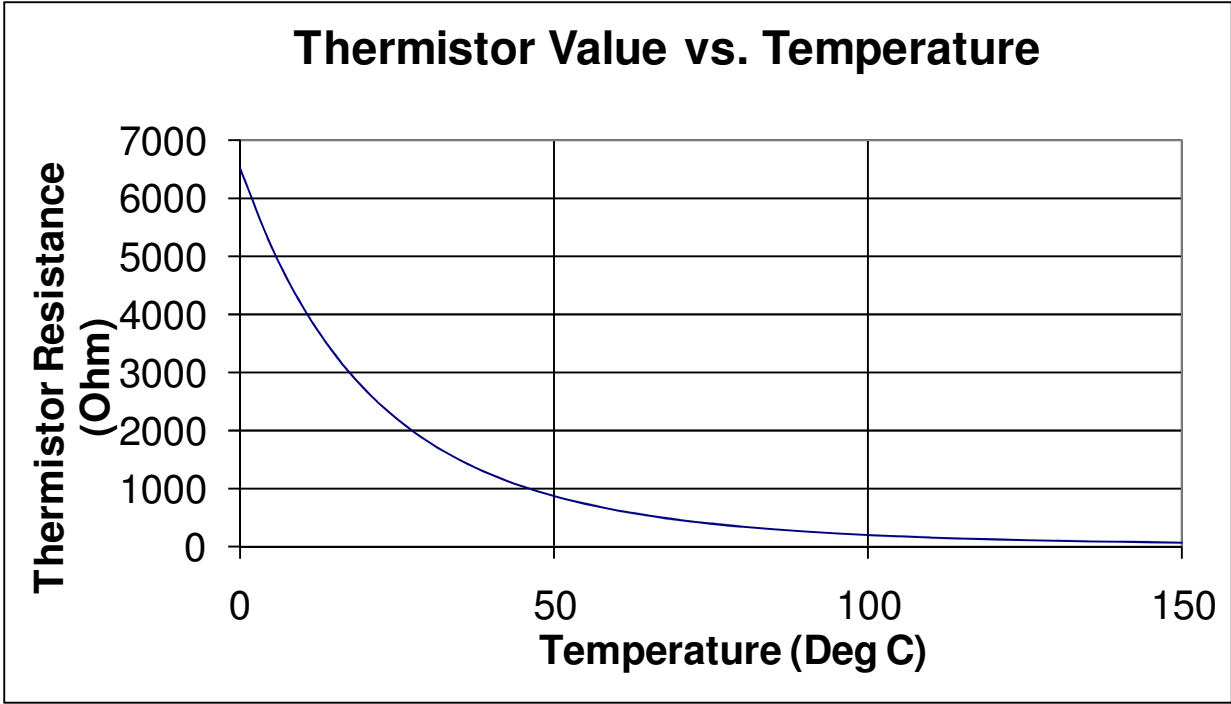
Phone (888) 785-1804
+1 (818) 785-1800
FAX +1 (818) 785-5713
MotiCont@MotiCont.com

Forcer		
LBF-021-029-321-01		
PERFORMANCE		
Intermittent Force @ 10% Duty Cycle	31.0	lb
	138.1	N
Continuous Force @ 25 °C	9.8	lb
	43.7	N
Continuous Force @ Tmax	7.3	lb
	32.6	N
Maximum Continuous Power	65	W
Motor Constant	1.2	lb/ W ^{0.5}
	5.4	N/ W ^{0.5}
ELECTRICAL SPECIFICATIONS		
Peak Current @ 10% Duty Cycle	21.5	A
Continuous Current @ Tmax	5.1	A
Force Constant	1.4	lb/A
	6.4	N/A
Back EMF	0.1	V/in/s
	6.4	V/m/s
Phase-to-Phase Resistance @ 25 °C	1.4	Ohm
Phase-to-Phase Inductance @ 1 KHz	0.53	mH
MECHANICAL SPECIFICATIONS		
Coil Assembly Mass	1.5	lb
	0.68	Kg
Magnetic Cogging Force	0	lb
Maximum Allowable Coil Temperature	110	°C
Electrical Cycle Length	1.6	in
	40.6	mm
THERMAL SPECIFICATIONS		
Thermal Time Constant	2	min
Thermal Resistance	4.25	°C/W

Magnetic Track		
LBM-021-038-XXX-01		
DIMENSIONS		
Width	0.82	in
	20.8	mm
Height	1.50	in
	38.1	mm
Length		
LBM-021-038-121-01	4.75	in
	121.7	mm
LBM-021-038-243-01	9.55	in
	242.6	mm
LBM-021-038-365-01	14.35	in
	364.5	mm
LBM-021-038-608-01	23.95	in
	608	mm
Mass		
All Models	0.23	lb/in
	4.13	Kg/m



Wire	Description
BLU-THICK	Motor Phase A
YEL-THICK	Motor Phase B
GRN-THICK	Motor Phase C
GRN	Thermistor
ORN	Thermistor
WHT	Commutation Sensor Output - A
BLU	Commutation Sensor Output - B
GRY	Commutation Sensor Output - C
RED	+5 VDC Logic Supply for Commutation Sensors (Hall Effects)
BLK	Ground for Commutation Sensor (Hall Effects)



Specifications are subject to change without notice.

