

1

2

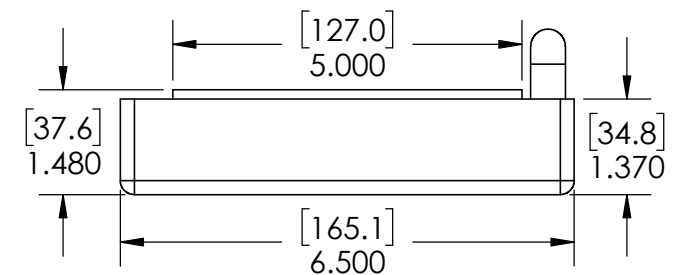
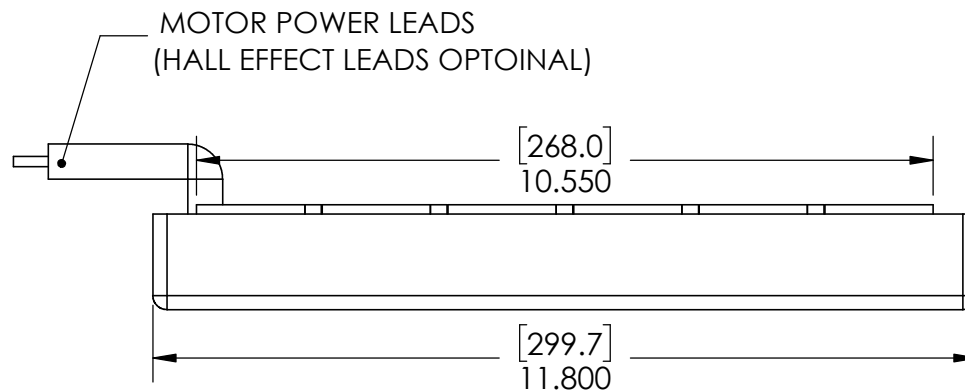
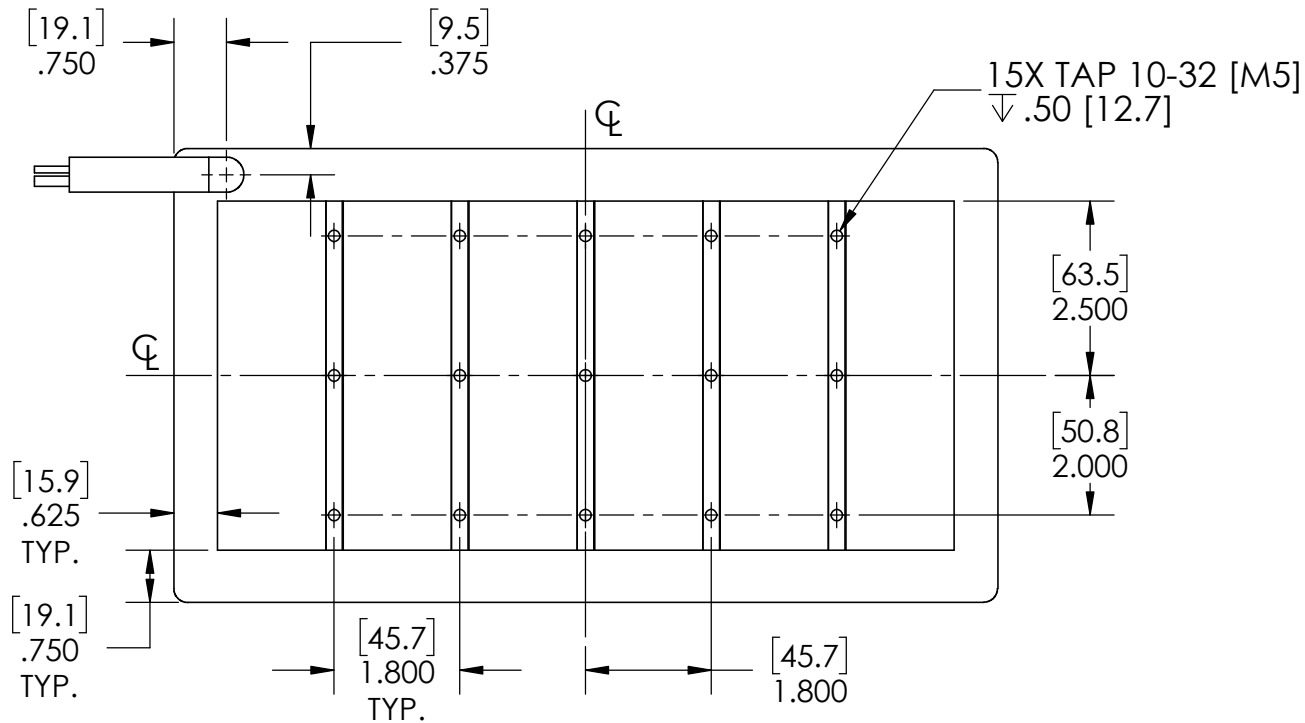
3

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REVISION TABLE

REV	ECN#	DESCRIPTION	REV BY	APPROVED	DATE
---	---	Original Drawing	OOG	MPW	5-5-22



H2W Technologies, Inc.
 Santa Clarita, CA 91350 USA
 Tel: (661) 291-1620
www.h2wtech.com

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

**FOR
 REFERENCE
 ONLY**

MATERIAL

FINISH

TITLE

Iron Core Motor Coil Model #:
BLSM-2E

DWG #

21-0185

REV

DATE

5-5-22

SHEET

1 of 2

1

2

3

4

5

A

A

B

B

C

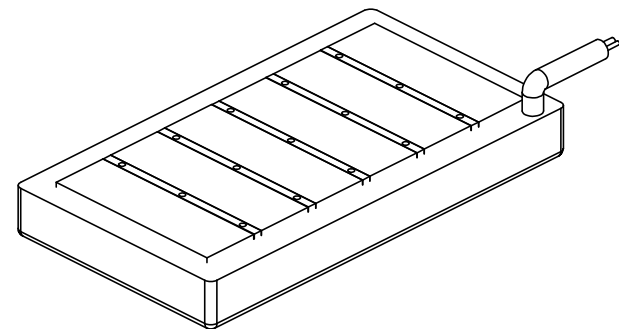
C

D

D

Motor Specifications		
BLSM-2E		
General		
Continuous Force	lbs [N]	170 [755]
Continuous Current	Amps	7.7
Continuous Power	Watts	157
Peak Force @ 10% Duty	lbs [N]	506 [2246]
Peak Current @ 10% Duty	Amps	23
Peak Power @ 10% Duty	Watts	1400
Electrical		
Force Constant	lbs/Amp [N/Amp]	22 [98]
Back EMF	V/in/sec [V/m/sec]	2.46 [97]
Resistance	Ohms	2.65
Inductance	mH	18
Electrical Time Constant	msec	6.8
Km Motor Constant	lbs/sqW [N/sqW]	13.6 [60.2]
Mechanical		
Electrical Cycle Length	in [mm]	1.35 [34.29]
Number of Poles	2	
Coil Assembly Length	in [mm]	11.8 [299]
Coil Assembly Weight	lbs [kg]	35 [15.9]

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



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