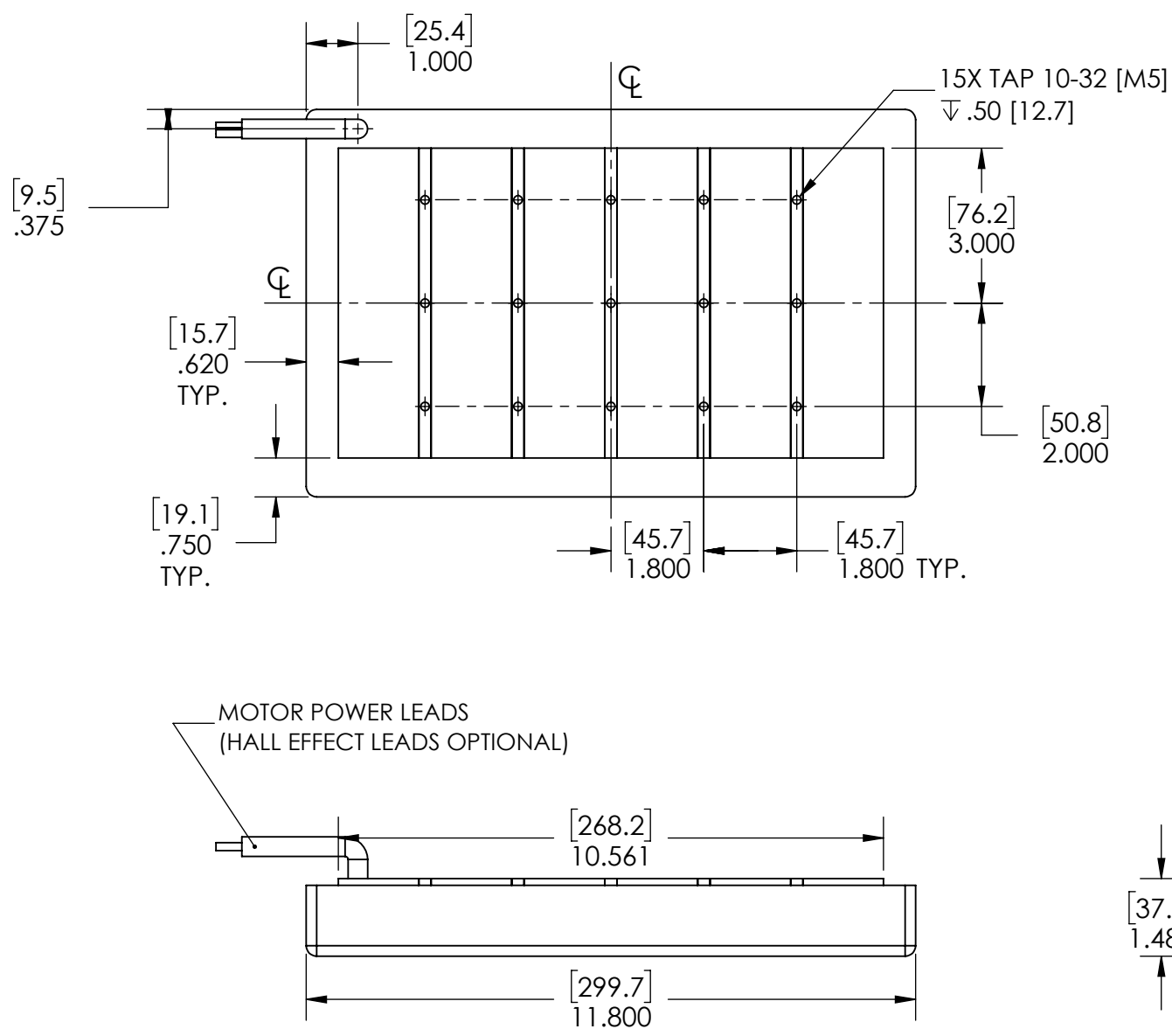


REVISION TABLE					
REV	ECN#	DESCRIPTION	REV BY	APPROVED	DATE
---	---	Original Drawing	SDC	MPW	8-11-15
A	1868	Corrected data in specification table.	SDC	MPW	1-5-17



1

2

3

4

5

A

A

B

B

C

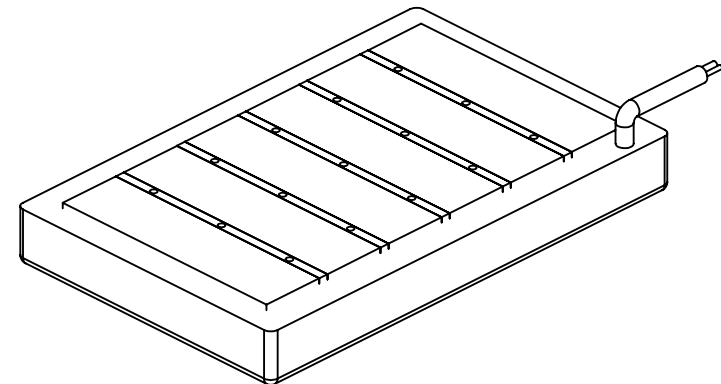
C

D

D

Motor Specifications		
BLSM-2F		
General		
Continuous Force	lbs [N]	200 [888]
Continuous Current	Amps	7.7
Continuous Power	Watts	163
Peak Force @ 10% Duty	lbs [N]	600 [2664]
Peak Current @ 10% Duty	Amps	23.1
Peak Power @ 10% Duty	Watts	1467
Electrical		
Force Constant	lbs/Amp [N/Amp]	26 [115.4]
Back EMF	V/in/sec [V/m/sec]	2.85 [115.4]
Resistance	Ohms	2.75
Inductance	mH	23.5
Electrical Time Constant	msec	8.5
Km Motor Constant	lbs/sqW [N/sqW]	15.7 [69.5]
Mechanical		
Electrical Cycle Length	in [mm]	1.35 [34.3]
Number of Poles	2	
Coil Assembly Length	in [mm]	11.8 [300]
Coil Assembly Weight	lbs [kg]	38 [17.2]

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
Thermostat normally closed; opens at 140°C	
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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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-2F

DWG #

21-0186

REV

A

DATE

1-5-17

SHEET

2 of 2