

1

2

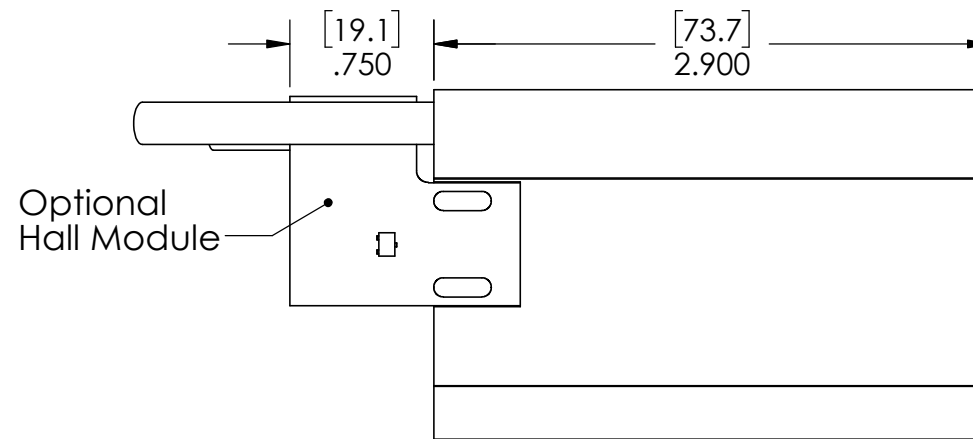
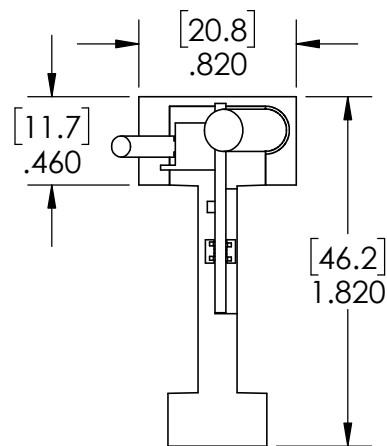
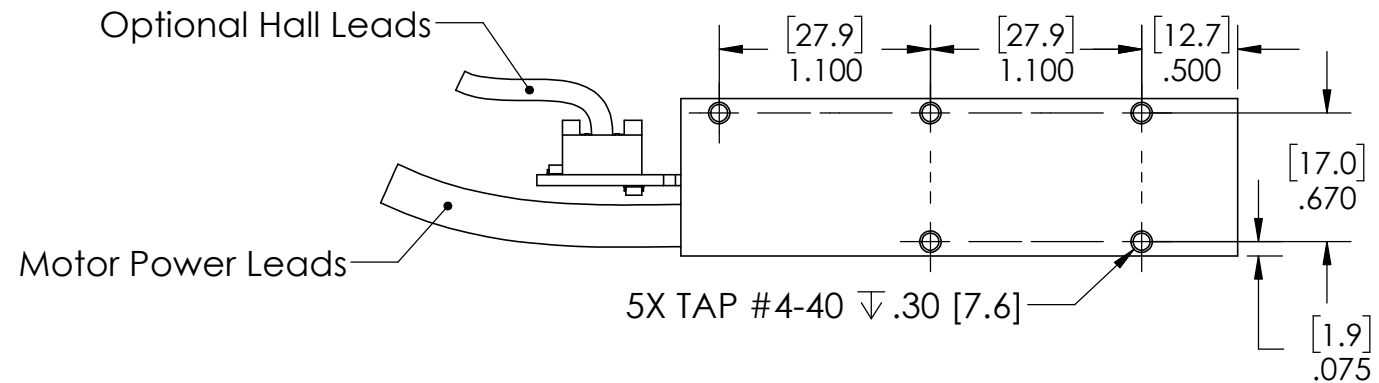
3

4

5

REVISION TABLE

REV	ECN#	DESCRIPTION	REV BY	APPROVED	DATE
---	---	Original Drawing	SDC	MPW	5-12-15



STANDARD CABLE LENGTH = 1m



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 Santa Clarita, CA 91350 USA
 Tel: (661) 291-1620
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UNLESS SPECIFIED OTHERWISE:
 All dimensions are in inches
 Standard Tolerances are as follows
 .XXX $\pm$.005 ANGLES $\pm$ 1°
 .XX $\pm$.010 FILLETS .010
 .X $\pm$.020 CORNERS .010
 Remove All Burrs and Sharp Edges

**FOR
REFERENCE
ONLY**

MATERIAL

FINISH

TITLE

Ironless Motor Coil Model #:
BLDM-B02

DWG # **20-0213**

REV

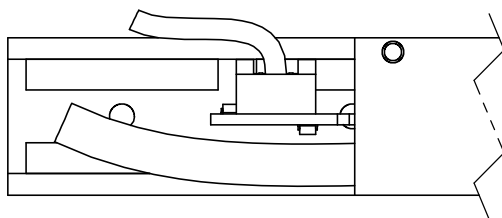
DATE

5-12-15

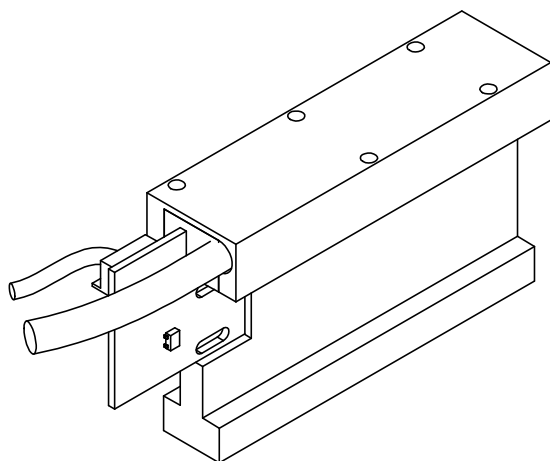
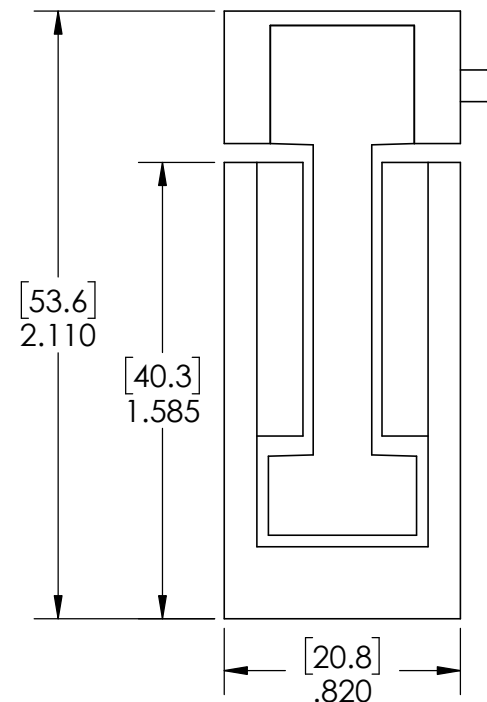
SHEET

1 of 3

OPTIONAL HALL MODULE MUST BE IN
MAGNET TRACK FOR COMMUNICATION



MOTOR COIL SHOWN
WITH MAGNET TRACK



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.XX ±.010 FILLETS .010
.X ±.020 CORNERS .010
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Ironless Motor Coil Model #:
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DWG #

20-0213

REV

DATE

5-12-15

SHEET

2 of 3

1

2

3

4

5

A

A

B

B

C

C

D

D

Motor Specifications		
BLDM-B02		
General		
Continuous Force	lbs [N]	3.1 [13.8]
Continuous Current	Amps	2.1
Continuous Power	Watts	19.6
Peak Force @ 10% Duty	lbs [N]	9.4 [41.8]
Peak Current @ 10% Duty	Amps	6.3
Peak Power @ 10% Duty	Watts	176.4
Electrical		
Force Constant	lbs/Amp [N/Amp]	1.5 [6.7]
Back EMF	V/in/sec [V/m/sec]	0.17 [6.7]
Resistance	Ohms	3.2
Inductance	mH	15.9
Electrical Time Constant	msec	1
Km Motor Constant	lbs/sqW [N/sqW]	0.84 [3.7]
Mechanical		
Electrical Cycle Length	in [mm]	2.4 [60.96]
Number of Poles	2	
Coil Assembly Length		
with Hall Sensor	in [mm]	3.65 [92.71]
without Hall Sensor	in [mm]	2.9 [73.7]
Coil Assembly Weight	lbs [kg]	0.25 [0.11]
Magnet Track Weight	lbs/in [kg/m]	0.31 [5.5]

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



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MATERIAL

FINISH

TITLE

Ironless Motor Coil Model #:
BLDM-B02

DWG # **20-0213**

REV ----

DATE 5-12-15 SHEET

3 of 3