

1

2

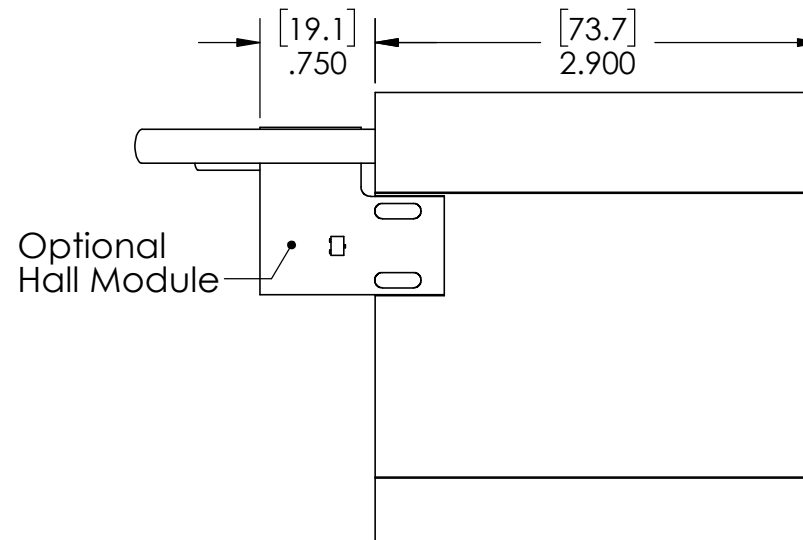
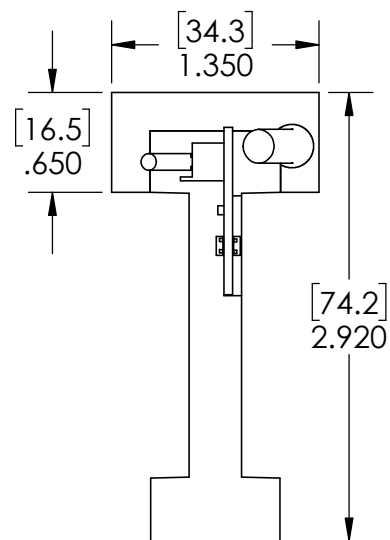
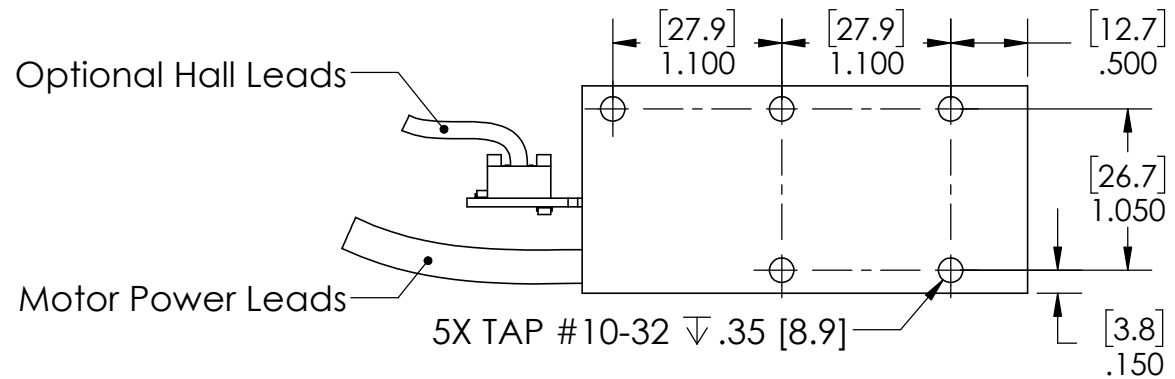
3

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
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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-D02

DWG #

20-0219

REV

DATE

5-12-15

SHEET

1 of 3

1

2

3

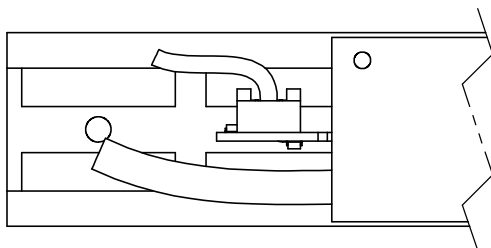
4

5

A

A

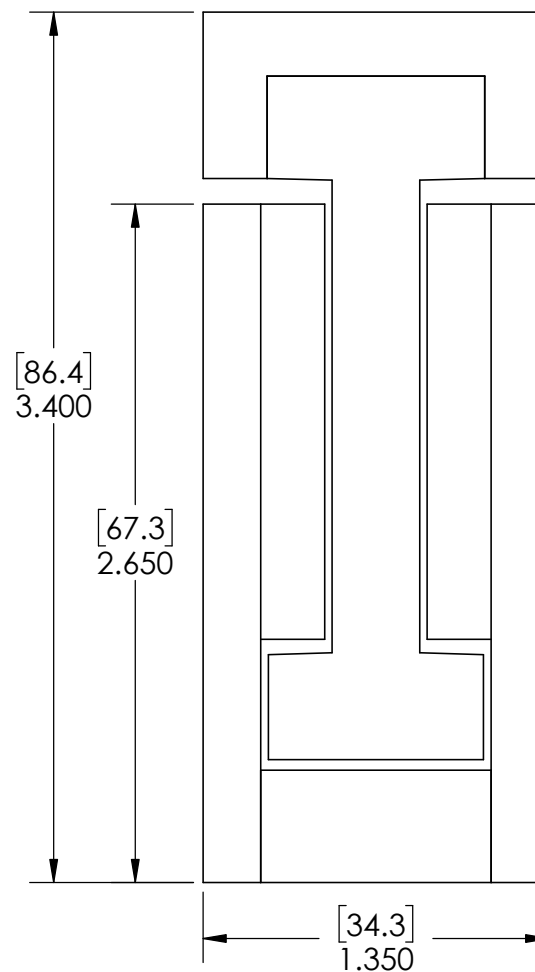
OPTIONAL HALL MODULE MUST BE IN
MAGNET TRACK FOR COMMUTATION



B

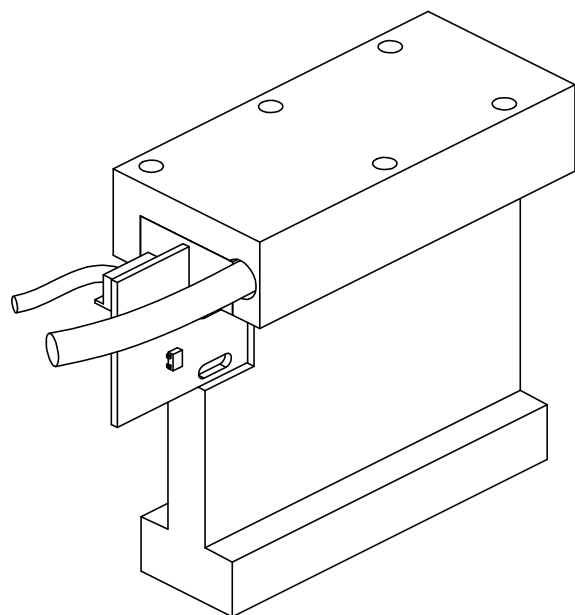
B

MOTOR COIL SHOWN
WITH MAGNET TRACK



C

C



D

D



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.X ±.020 CORNERS .010
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FINISH

TITLE

Ironless Motor Coil Model #:

BLDM-D02

DWG #

20-0219

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-D02		
General		
Continuous Force	lbs [N]	8.3 [36.8]
Continuous Current	Amps	1.5
Continuous Power	Watts	25.9
Peak Force @ 10% Duty	lbs [N]	24.8 [110]
Peak Current @ 10% Duty	Amps	4.4
Peak Power @ 10% Duty	Watts	233.1
Electrical		
Force Constant	lbs/Amp [N/Amp]	5.6 [24.8]
Back EMF	V/in/sec [V/m/sec]	0.63 [24.8]
Resistance	Ohms	9.1
Inductance	mH	12.1
Electrical Time Constant	msec	1.3
Km Motor Constant	lbs/sqW [N/sqW]	1.85 [8.2]
Mechanical		
Electrical Cycle Length	in [mm]	2.4 [60.96]
Number of Poles	2	
Coil Assembly Length		
with Hall Sensor	in [mm]	3.65 [92.7]
without Hall Sensor	in [mm]	2.9 [73.7]
Coil Assembly Weight	lbs [kg]	0.76 [0.35]
Magnet Track Weight	lbs/in [kg/m]	0.65 [11.63]

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

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Ironless Motor Coil Model #:
BLDM-D02

DWG # **20-0219**

REV ----

DATE 5-12-15

SHEET 3 of 3