

1

2

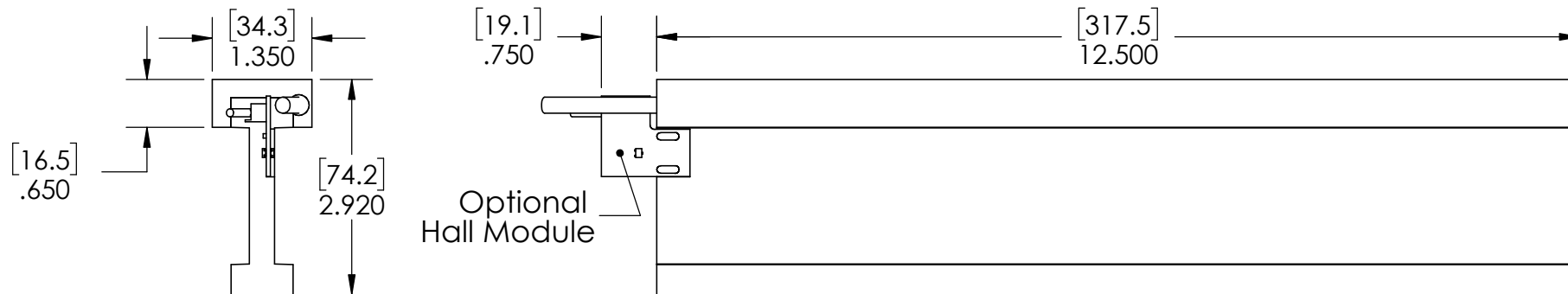
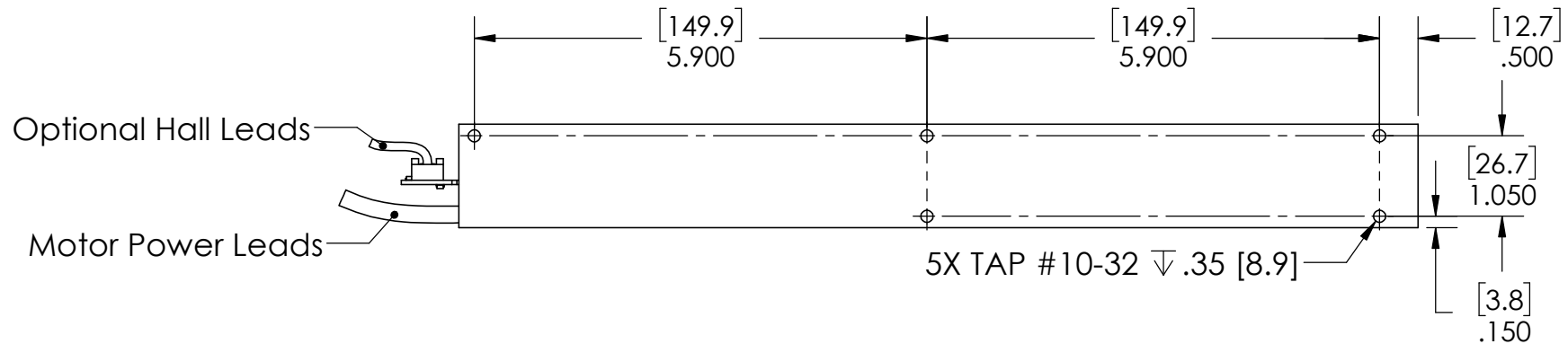
3

4

5

REVISION TABLE

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



Standard Cable Length = 1 meter



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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 \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-D10

DWG # **20-0223**

REV **----**

DATE **5-12-15** SHEET **1 of 3**

1

2

3

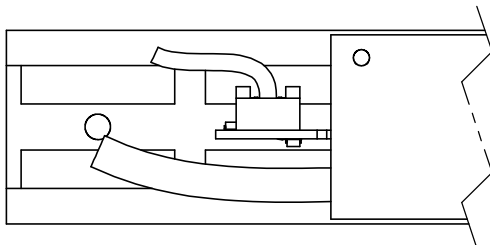
4

5

A

A

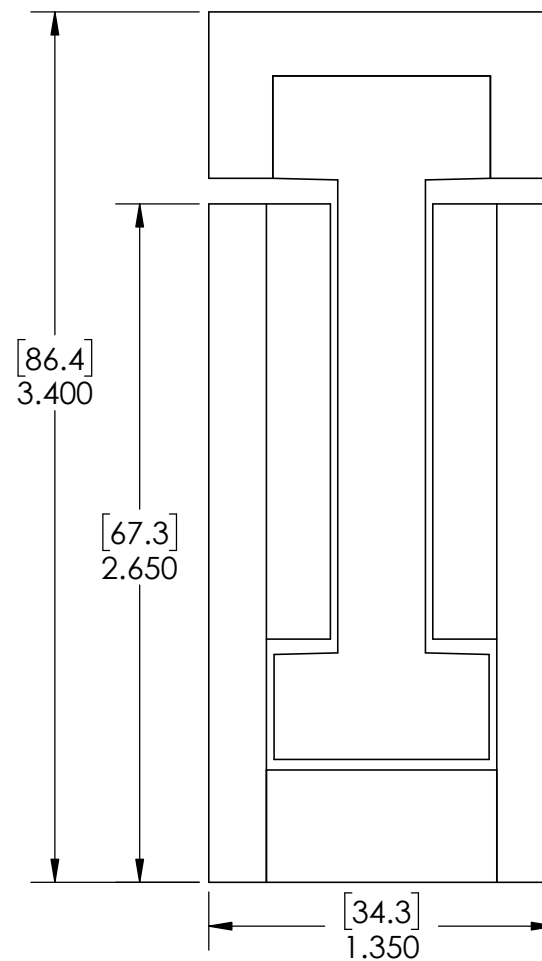
OPTIONAL HALL MODULE MUST BE IN
MAGNET TRACK FOR COMMUTATION



B

B

MOTOR COIL SHOWN
WITH MAGNET TRACK

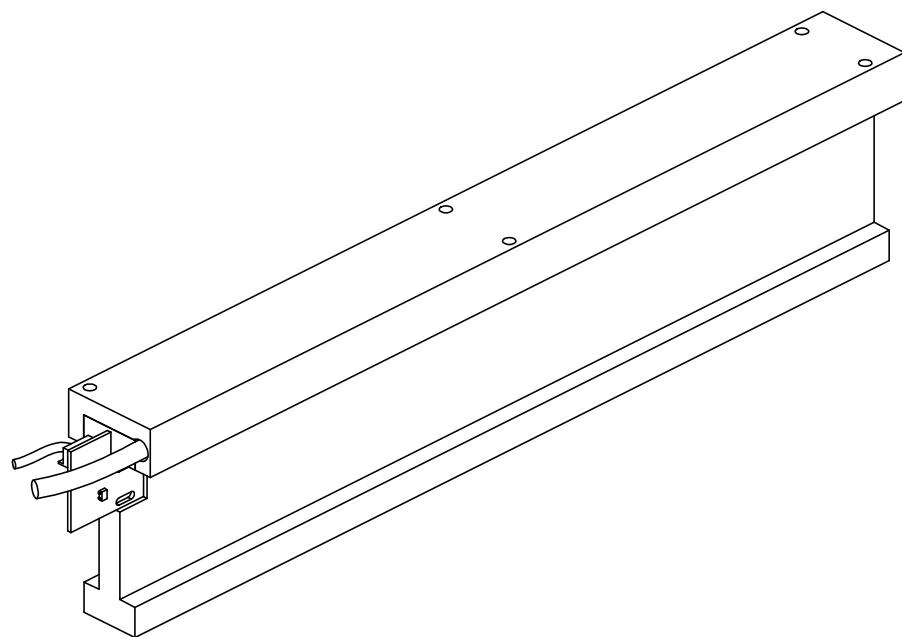


C

C

D

D



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MATERIAL

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TITLE

Ironless Motor Coil Model #:
BLDM-D10

DWG #

20-0223

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-D10		
General		
Continuous Force	lbs [N]	41.3 [183.6]
Continuous Current	Amps	3
Continuous Power	Watts	129.4
Peak Force @ 10% Duty	lbs [N]	123 [550]
Peak Current @ 10% Duty	Amps	8.9
Peak Power @ 10% Duty	Watts	1164.6
Electrical		
Force Constant	lbs/Amp [N/Amp]	13.9 [61.8]
Back EMF	V/in/sec [V/m/sec]	1.57 [61.8]
Resistance	Ohms	11.3
Inductance	mH	15
Electrical Time Constant	msec	1.3
Km Motor Constant	lbs/sqW [N/sqW]	4.1 [18.3]
Mechanical		
Electrical Cycle Length	in [mm]	2.4 [60.96]
Number of Poles	10	
Coil Assembly Length		
with Hall Sensor	in [mm]	13.25 [336.6]
without Hall Sensor	in [mm]	12.5 [318]
Coil Assembly Weight	lbs [kg]	3.2 [1.5]
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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