

1

2

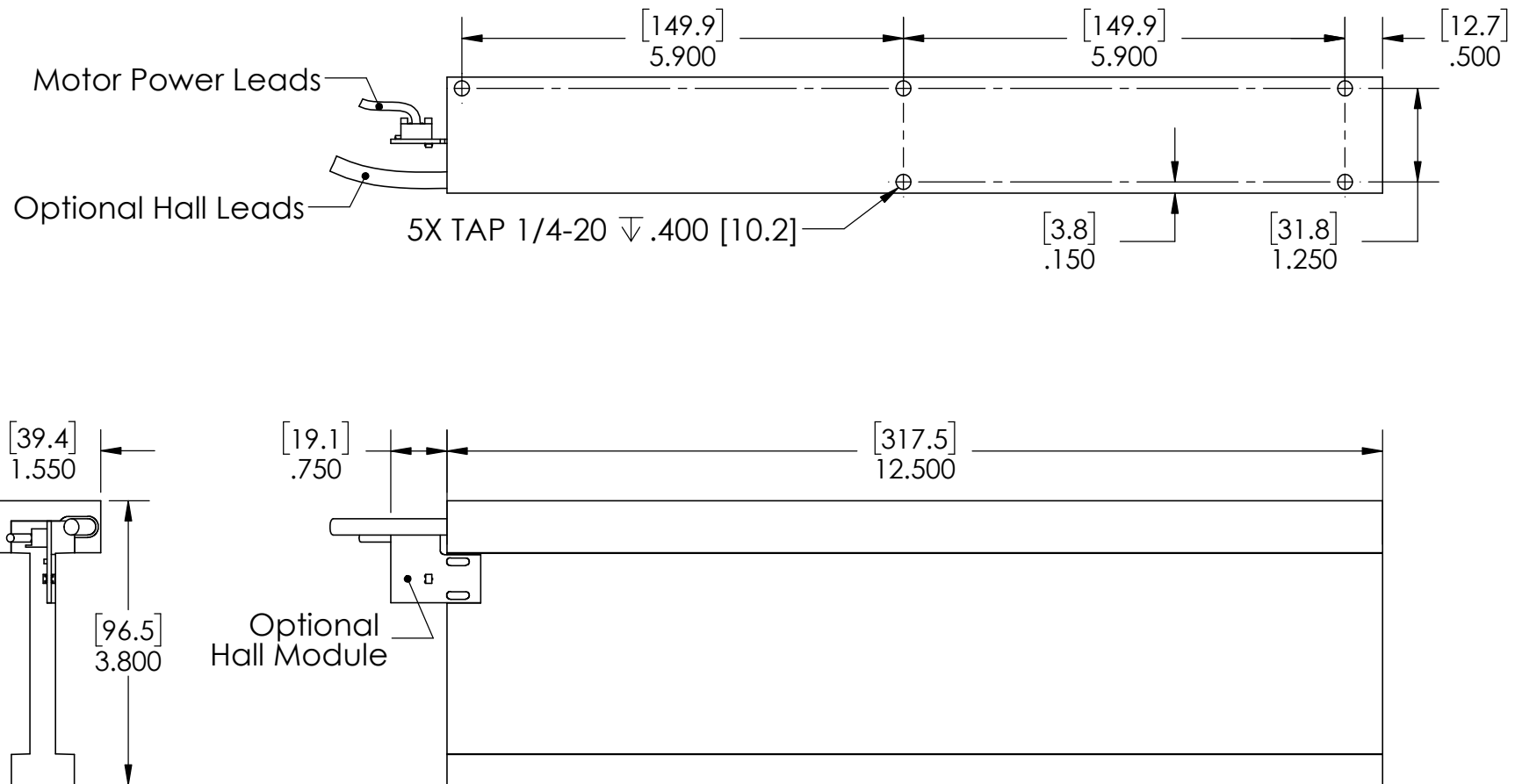
3

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-E10

DWG #

20-0228

REV

DATE

5-12-15

SHEET

1 of 3

1

2

3

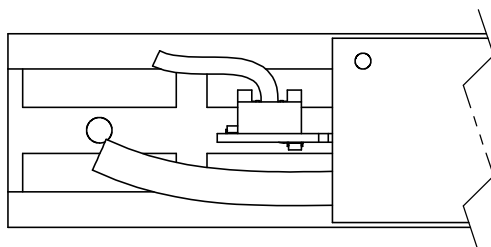
4

5

A

A

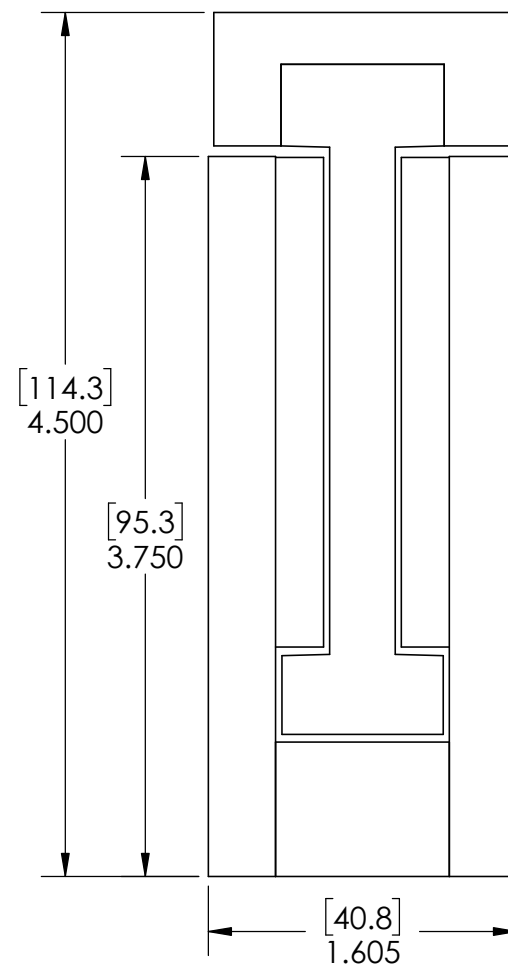
OPTIONAL HALL MODULE MUST BE IN
MAGNET TRACK FOR COMMUTATION



B

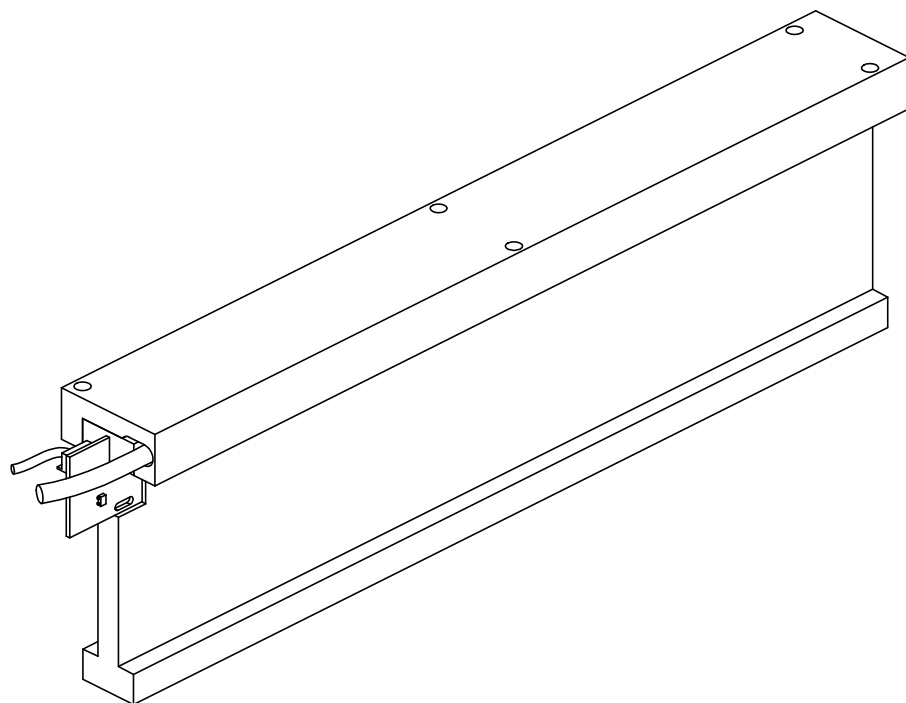
B

MOTOR COIL SHOWN
WITH MAGNET TRACK



C

C



D

D



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Ironless Motor Coil Model #:

BLDM-E10

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5-12-15

SHEET

2 of 3

1

2

3

4

5

A

A

B

B

C

C

D

D

Motor Specifications		
BLDM-E10		
General		
Continuous Force	lbs [N]	70 [314]
Continuous Current	Amps	3.1
Continuous Power	Watts	178.1
Peak Force @ 10% Duty	lbs [N]	212 [942]
Peak Current @ 10% Duty	Amps	9.2
Peak Power @ 10% Duty	Watts	1602.9
Electrical		
Force Constant	lbs/Amp [N/Amp]	23 [102.5]
Back EMF	V/in/sec [V/m/sec]	2.6 [102.5]
Resistance	Ohms	14.7
Inductance	mH	23
Electrical Time Constant	msec	1.6
Km Motor Constant	lbs/sqW [N/sqW]	6 [26.7]
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]	4.01 [1.82]
Magnet Track Weight	lbs/in [kg/m]	0.96 [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
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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3 of 3