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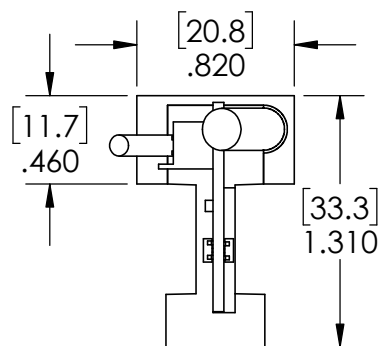
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REVISION TABLE

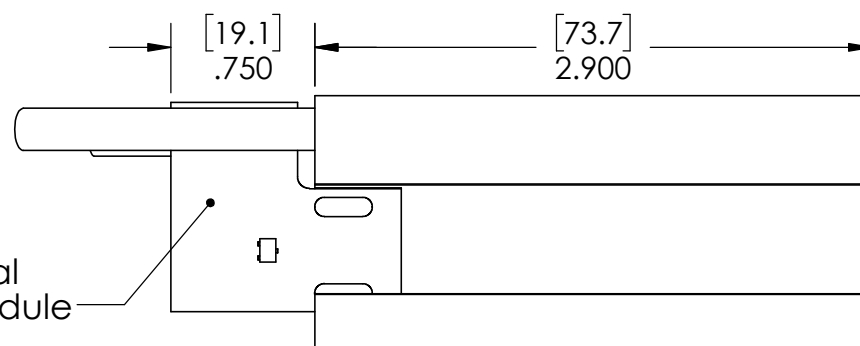
REV	ECN#	DESCRIPTION	REV BY	APPROVED	DATE
---	---	Original Drawing	SDC	MPW	5-21-05

Optional Hall Leads

Motor Power Leads

5X TAP #4-40 ∇ .30 [7.6]

Optional Hall Module



STANDARD CABLE LENGTH = 1m



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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-A02

DWG # **20-0235**

REV ----

DATE 5-21-15 SHEET 1 of 3

1

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A

A

B

B

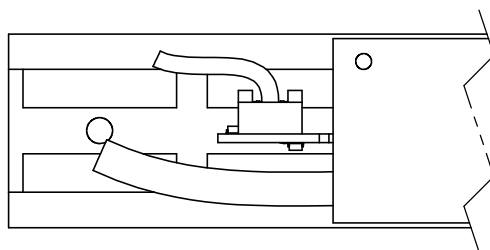
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C

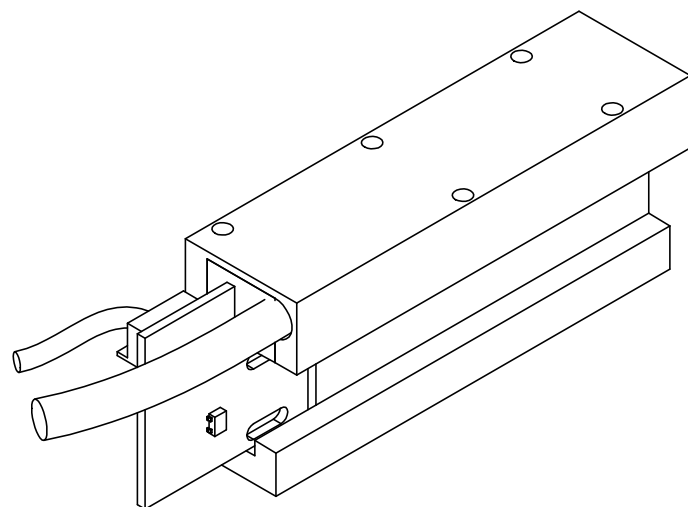
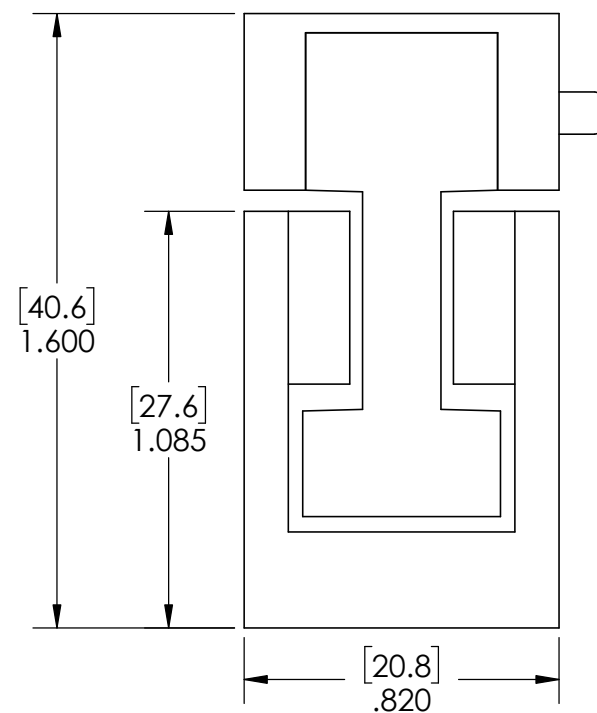
D

D

OPTIONAL HALL MODULE MUST BE IN
MAGNET TRACK FOR COMMUTATION



MOTOR COIL SHOWN
WITH MAGNET TRACK



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Ironless Motor Coil Model #:

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DWG #

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SHEET

2 of 3

1

2

3

4

5

A

A

B

B

C

C

D

D

Motor Specifications		
BLDM-A02		
General		
Continuous Force	lbs [N]	1.2 [5.3]
Continuous Current	Amps	1.7
Continuous Power	Watts	11
Peak Force @ 10% Duty	lbs [N]	3.6 [16]
Peak Current @ 10% Duty	Amps	5.1
Peak Power @ 10% Duty	Watts	99
Electrical		
Force Constant	lbs/Amp [N/Amp]	0.7 [3.1]
Back EMF	V/in/sec [V/m/sec]	0.08 [3.1]
Resistance	Ohms	2.7
Inductance	mH	3.2
Electrical Time Constant	msec	0.2
Km Motor Constant	lbs/sqW [N/sqW]	0.43 [1.9]
Mechanical		
Electrical Cycle Length	in [mm]	2.4 [60.96]
Number of Poles	2	
Coil Assembly Length		
with Hall Sensor	in [mm]	3.45 [87.6]
without Hall Sensor	in [mm]	2.9 [73.7]
Coil Assembly Weight	lbs [kg]	0.17 [0.08]
Magnet Track Weight	lbs/in [kg/m]	0.2 [3.6]

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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