

1

2

3

4

5

REVISION TABLE

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

Optional Hall Leads

Motor Power Leads

8X TAP M6-1 ∇ .315 [8.0][7.0]
.275[30.0]
1.181[19.1]
.750[43.0]
1.693

3 EQ SP x 2.362 [60.0]

[8.0]
.315Optional
Hall Module4X TAP M6-1 ∇ .315 [8.0]
BOTH SIDES[20.0]
.787[44.0]
1.732[131.1]
5.160

A

A

B

B

C

C

D

D



H2W Technologies, Inc.
 Santa Clara, CA 95050 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-F08

DWG #

20-0232

REV

DATE

5-12-15

SHEET

1 of 3

1

2

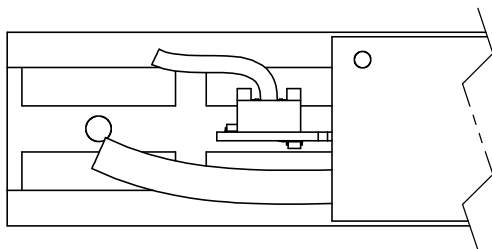
3

4

5

A

OPTIONAL HALL MODULE MUST BE IN
MAGNET TRACK FOR COMMUTATION

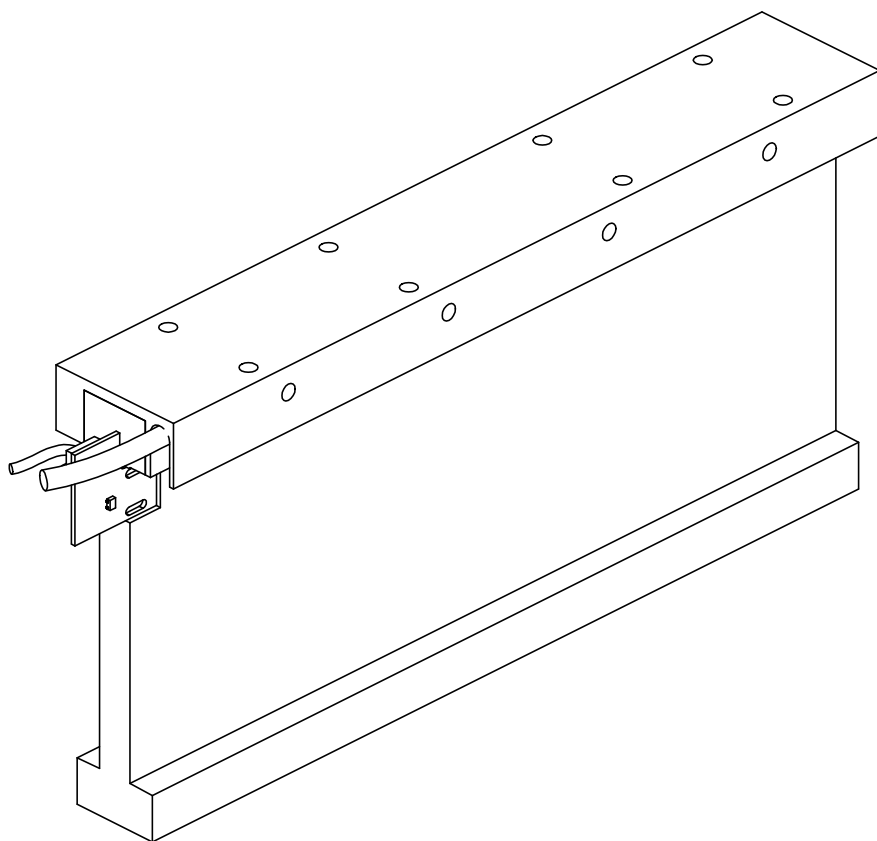


B

MOTOR COIL SHOWN
WITH MAGNET TRACK

A

C



B

C

D

D

[152.4]
6.000

[130.3]
5.130

[51.1]
2.010



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.XX ±.010 FILLETS .010
.X ±.020 CORNERS .010
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MATERIAL

FINISH

TITLE

Ironless Motor Coil Model #:

BLDM-F08

DWG #

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DATE

5-12-15

SHEET

2 of 3

1

2

3

4

5

A

A

B

B

C

C

D

D

Motor Specifications		
BLDM-F08		
General		
Continuous Force	lbs [N]	87 [387]
Continuous Current	Amps	2.6
Continuous Power	Watts	182
Peak Force @ 10% Duty	lbs [N]	256 [1152]
Peak Current @ 10% Duty	Amps	7.8
Peak Power @ 10% Duty	Watts	1638
Electrical		
Force Constant	lbs/Amp [N/Amp]	33.44 [148.8]
Back EMF	V/in/sec [V/m/sec]	3.78 [148.4]
Resistance	Ohms	21
Inductance	mH	27.2
Electrical Time Constant	msec	1.3
Km Motor Constant	lbs/sqW [N/sqW]	7.3 [32.5]
Mechanical		
Electrical Cycle Length	in [mm]	2.4 [60.96]
Number of Poles	8	
Coil Assembly Length		
with Hall Sensor	in [mm]	10.95 [278.1]
without Hall Sensor	in [mm]	10.4 [264.2]
Coil Assembly Weight	lbs [kg]	6.76 [3.07]
Magnet Track Weight	lbs/in [kg/m]	1.9 [0.034]

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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