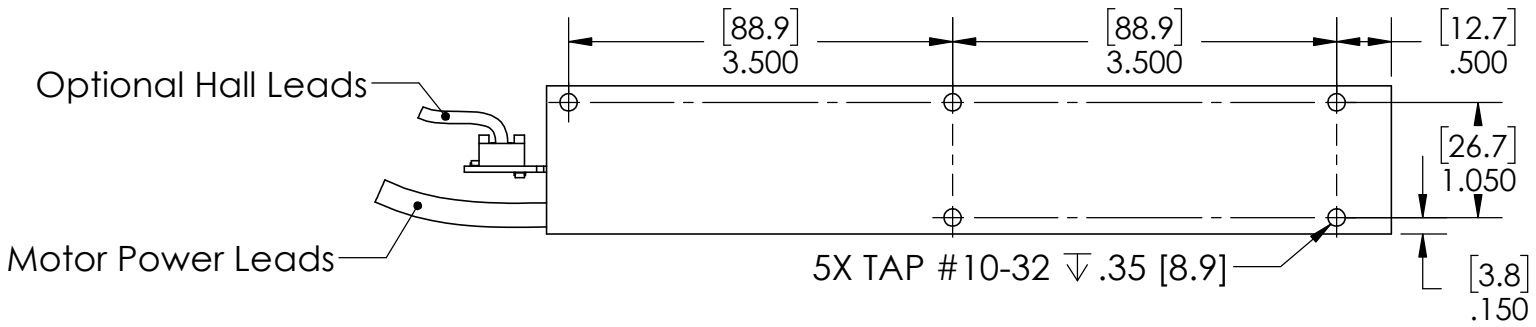
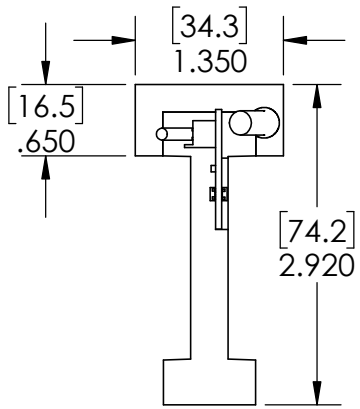
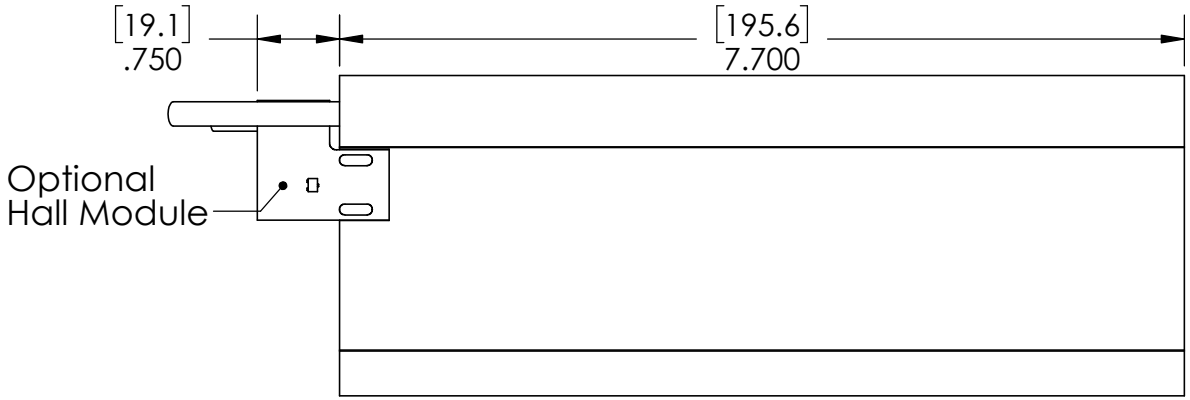
REVISION TABLE					
REV	ECN#	DESCRIPTION	REV BY	APPROVED	DATE
---	---	Original Drawing	SDC	MPW	5-12-15







STANDARD CABLE LENGTH = 1m

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All dimensions are in inches
Standard Tolerances are as follows
.XXX ±.005 ANGLES ±.1°
.XX ±.010 FILLETS .010
.X ±.020 CORNERS .010
Remove All Burrs and Sharp Edges

FOR REFERENCE ONLY

MATERIAL

FINISH

TITLE

Ironless Motor Coil Model #:

BLDM-D06

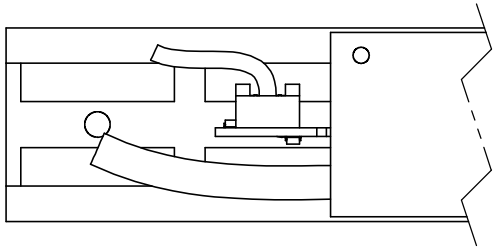
DWG # **20-0221**

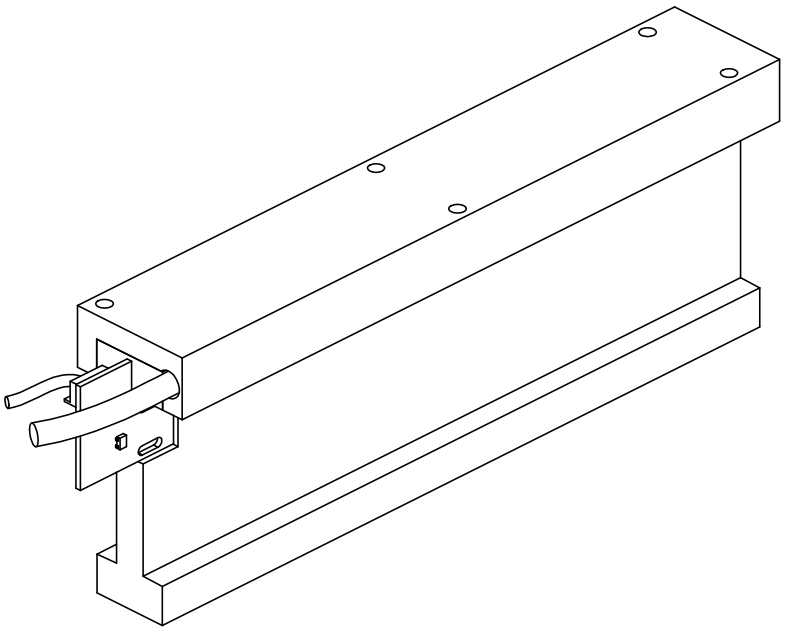
REV ----

DATE 5-12-15

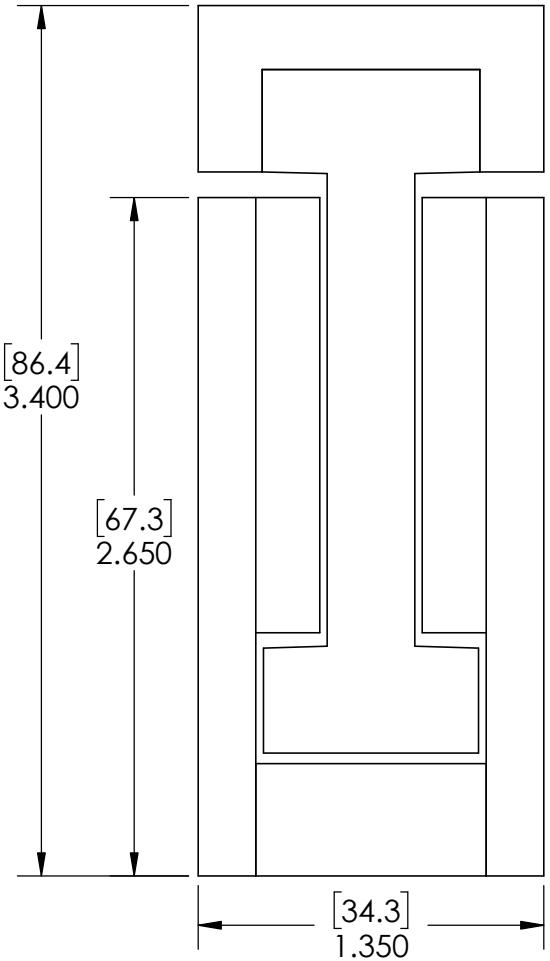
SHEET 1 of 3

OPTIONAL HALL MODULE MUST BE IN MAGNET TRACK FOR COMMUTATION





MOTOR COIL SHOWN WITH MAGNET TRACK



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FINISH

TITLE

Ironless Motor Coil Model #:

BLDM-D06

DWG # **20-0221**

REV **----**

DATE 5-12-15

SHEET 2 of 3

Motor Specifications BLDM-D06		
General		
Continuous Force	lbs [N]	24.8 [110]
Continuous Current	Amps	1.5
Continuous Power	Watts	77.6
Peak Force @ 10% Duty	lbs [N]	74.5 [331]
Peak Current @ 10% Duty	Amps	4.4
Peak Power @ 10% Duty	Watts	698.4
Electrical		
Force Constant	lbs/Amp [N/Amp]	16.7 [74.4]
Back EMF	V/in/sec [V/m/sec]	1.89 [74.4]
Resistance	Ohms	27.3
Inductance	mH	36.2
Electrical Time Constant	msec	1.3
Km Motor Constant	lbs/sqW [N/sqW]	3.2 [14.2]
Mechanical		
Electrical Cycle Length	in [mm]	2.4 [60.96]
Number of Poles	6	
Coil Assembly Length		
with Hall Sensor	in [mm]	8.45 [214.6]
without Hall Sensor	in [mm]	7.7 [196]
Coil Assembly Weight	lbs [kg]	2.0 [0.9]
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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FINISH

TITLE

Ironless Motor Coil Model #:
BLDM-D06

DWG # **20-0221**
REV ----
DATE 5-12-15
SHEET 3 of 3