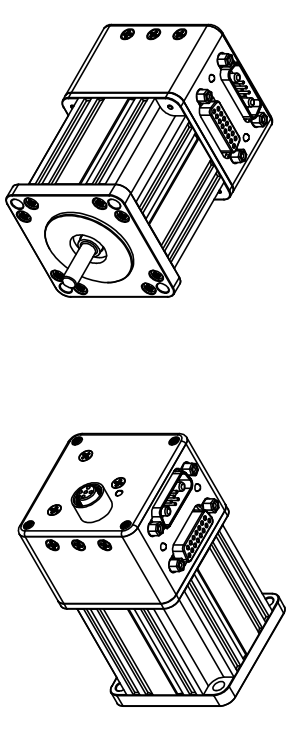
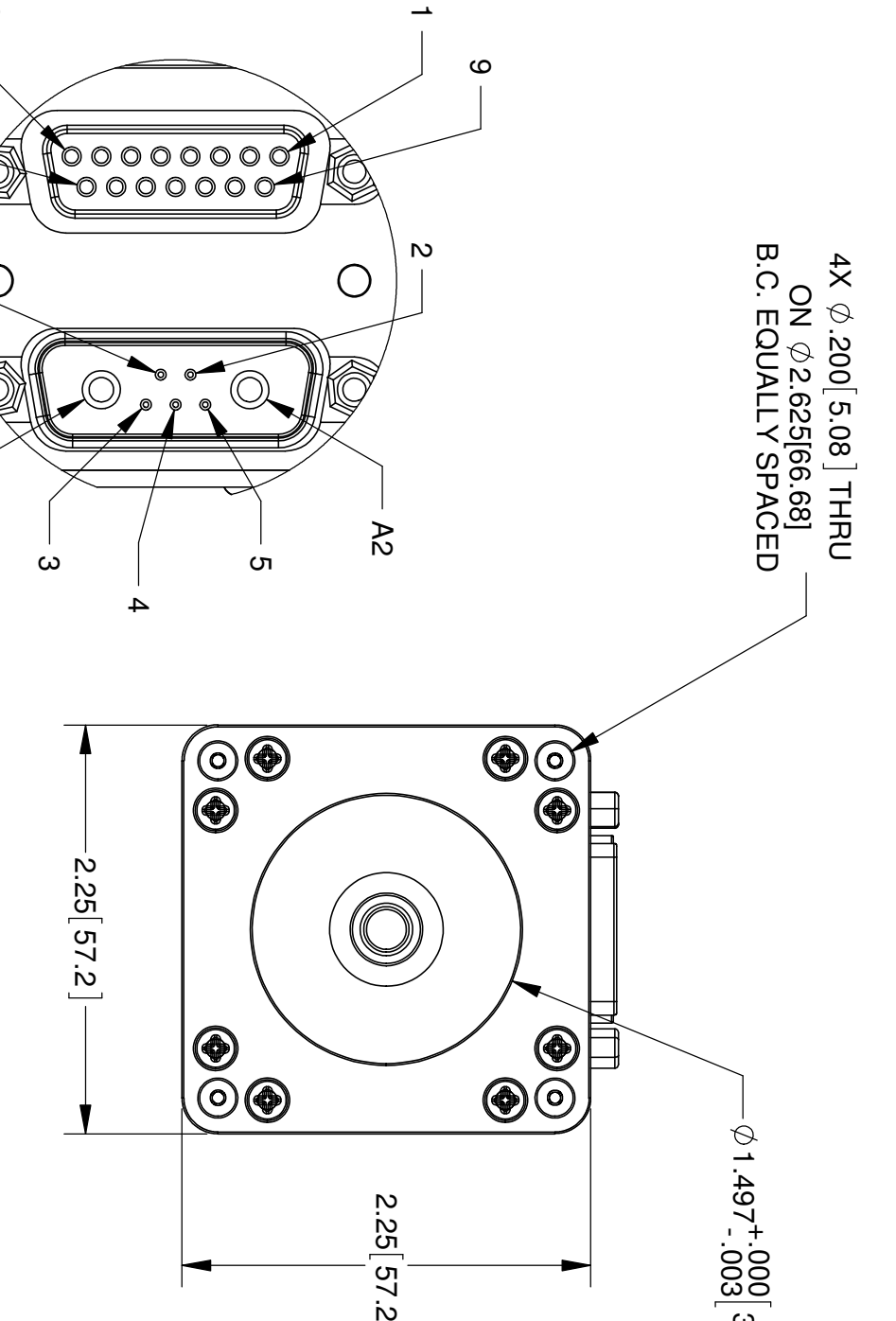
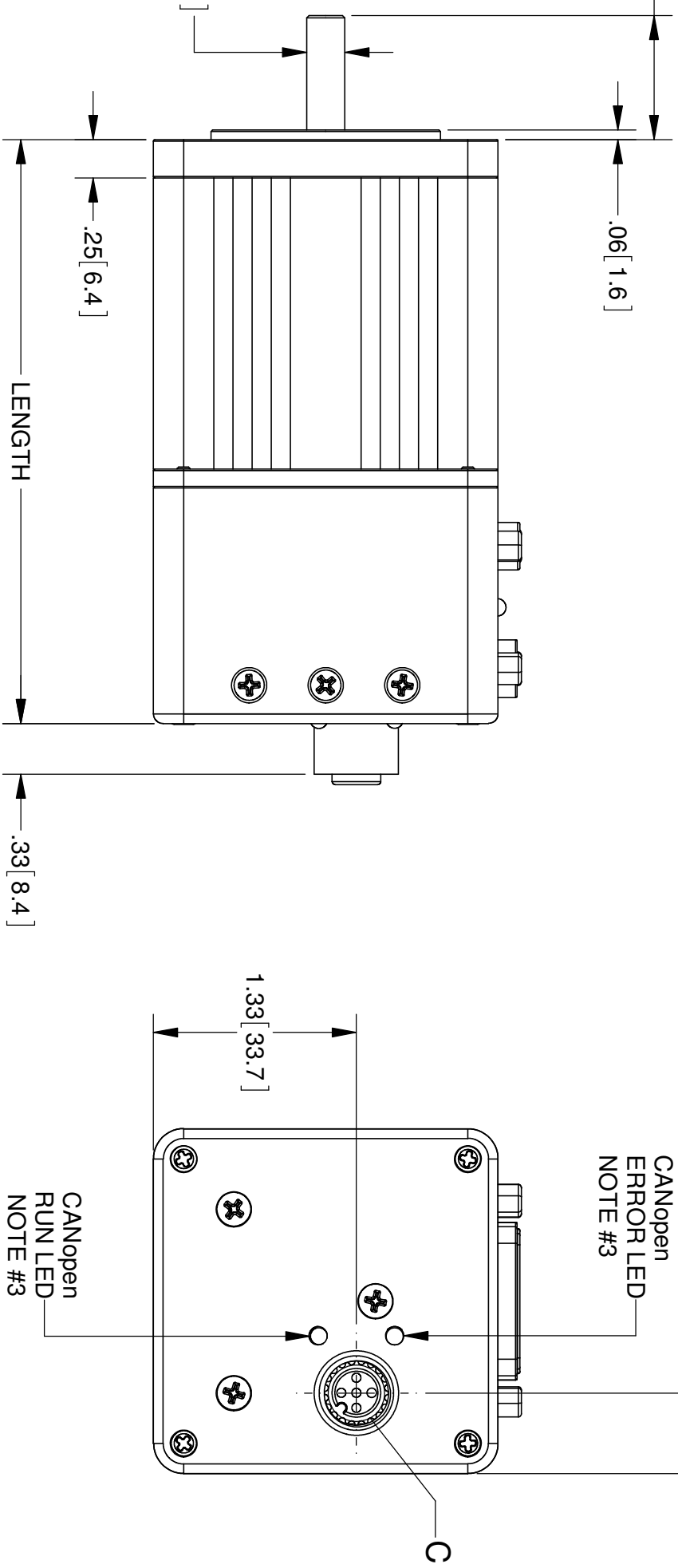
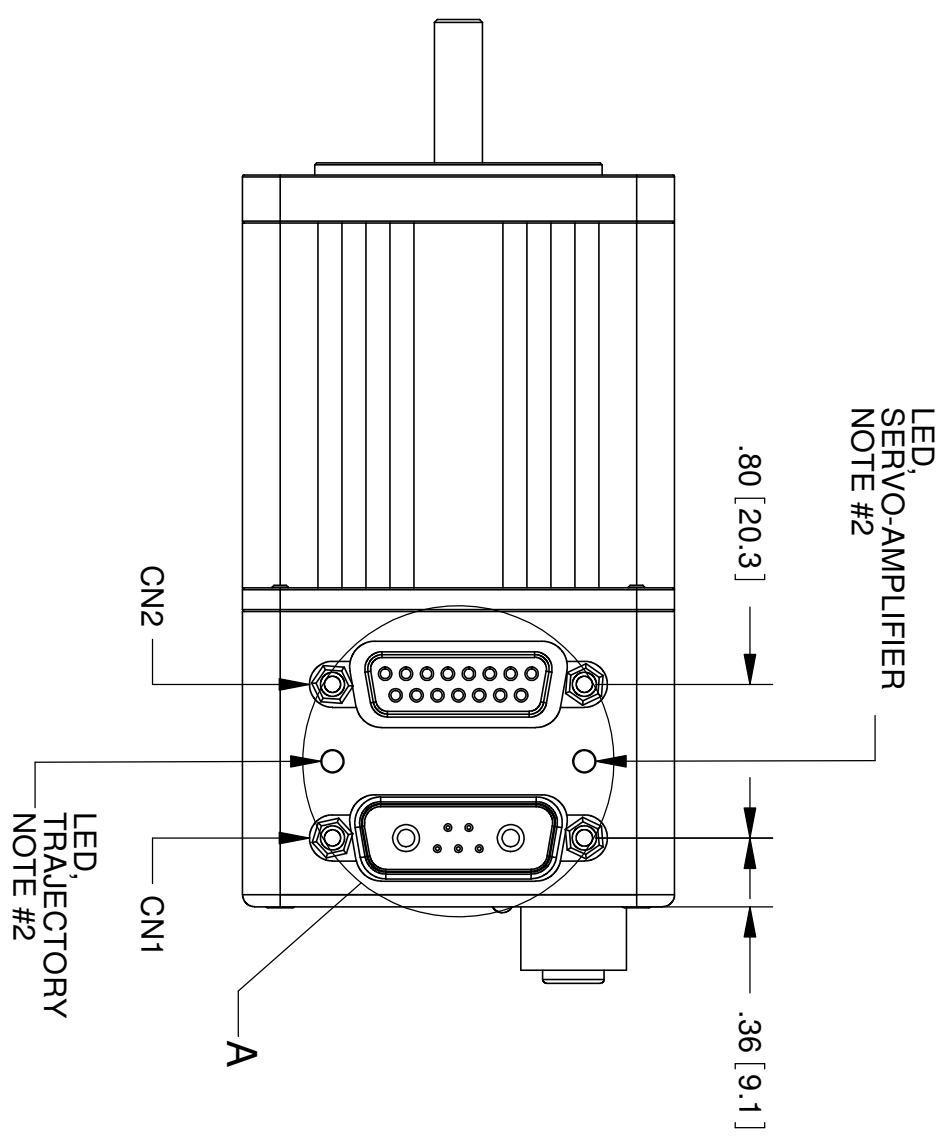


REV.	DESCRIPTION	ZONE	ECO	DATE	APPROVED
A	PRELIMINARY RELEASE			01/20/2011	M. TRAN



- NOTES:
- DRAWING APPLIES TO THE FOLLOWING SMARTMOTOR WITH PART NUMBERS:
 SM23105D-C SM23205D-C SM23305D-C SM23405D-C
 SM23105D-DE-C SM23205D-DE-C SM23305D-DE-C SM23405D-DE-C
 - LED, SERVO-AMPLIFIER:
 • CLEAR = CONTROLLER POWER NOT AVAILABLE
 • RED = FAULT
 • FLASH GREEN = DRIVE (AMPLIFIER) IS OFF
 • GREEN = DRIVE (AMPLIFIER) IS ON
 LED, TRAJECTORY
 • CLEAR = NOT IN CONTROLLED TRAJECTORY (DEFAULT STATE)
 • GREEN = IN CONTROLLED TRAJECTORY (CLOSE LOOP MOTION)
 • CANopen ERROR LED (RED)
 • CLEAR = NO ERROR
 • SINGLE FLASH = WARNING, COMMUNICATION ERROR COUNT LIMIT REACHED
 • DOUBLE FLASH = GUARD OR HEART BEAT ERROR
 • CANopen RUN LED (GREEN)
 • SINGLE FLASH = DEVICE IS IN STOPPED STATE
 • BLINKING = PREOPERATIONAL STATE
 • SOLID = OPERATIONAL STATE
 - FOR -DE OPTION, DRIVE POWER AND CONTROLLER POWER ARE ON SEPARATE PINS. MUST PROVIDE POWER TO CONTROLLER AND DRIVE POWER TO OPERATE. SEE TABLE CN2 BELOW FOR PIN ASSIGNMENT.
 - DIMENSIONS IN [] ARE mm.
 - RECOMMENDED BOLTING SCREW SIZE TO BE 10-32 OR M5, SOCKET CAP.



PART NUMBER	LENGTH	
	in	mm
SM23105D	3.17	80.4
SM23205D	3.75	95.3
SM23305D	4.40	111.8
SM23405D	5.05	128.3

CANopen	
PIN #	NAME
1	NC
2	NC
3	GND CAN
4	CAN H
5	CAN L

CN1 : 7PIN COMBO D-Sub Male Connector

FUNCTIONS			
PIN #	NAME	Secondary Function	Default Function
1	I/O A	External Encoder A Input	External Encoder A Input
2	I/O B	External Encoder B Input	External Encoder B Input
3	I/O C	Positive Limit Input	Positive Limit Input
4	I/O D	Negative Limit Input	Negative Limit Input
5	I/O E	RS485 A (+)	RS485 A (+)
6	I/O F	RS485 B (-)	RS485 B (-)
7	I/O G	6-Synchronization	6-Synchronization
8	ENC A OUT	Encoder A Output	Encoder A Output
9	ENC B OUT	Encoder B Output	Encoder B Output
10	RS232 Tx	RS232 Transmitt	RS232 Transmitt
11	RS232 Rx	RS232 Receive	RS232 Receive
12	+5Vdc OUT	+5Vdc Supply Out	+5Vdc Supply Out
13	GND	Signal GND	Signal GND
14	POWER GND	POWER GND	POWER GND
15	POWER	POWER	POWER

CN2 : 15PIN D-SUB FEMALE CONNECTOR



5-Pin M12, Female connector	
PIN #	NAME
1	NC
2	NC
3	GND CAN
4	CAN H
5	CAN L

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INCH UNLESS OTHERWISE SPECIFIED:
 DIMENSIONS ARE INCHES AND TOLERANCES ARE:
 .XXX ± .005
 .XX ± .03

DECIMALS: ANGLES:
 .XXX ± .005
 .XX ± 0.25°
 .XX ± 0.5°

ALL DIMENSIONS, TOLERANCES AND ROUGHNESS APPLY AFTER FINISHING, WHEN APPLICABLE.
 NO BURRS ALLOWED. BREAK SHARP EDGES .01 MAX.

DRAWN: M. TRAN
 ENGR: M. TRAN
 DATE: 01/20/2011

ANIMATICS CORPORATION

ALUMINUM HOUSING
 FINISH: BLACK ANODIZED

THIRD ANGLE PROJECTION

SM23x05D-C SERIES
 W/CANOPEN OPTION

DO NOT SCALE DRAWING

SM23x05D-C SERIES
 W/CANOPEN OPTION

SCALE: 1:1

SHEET: 1 OF 1