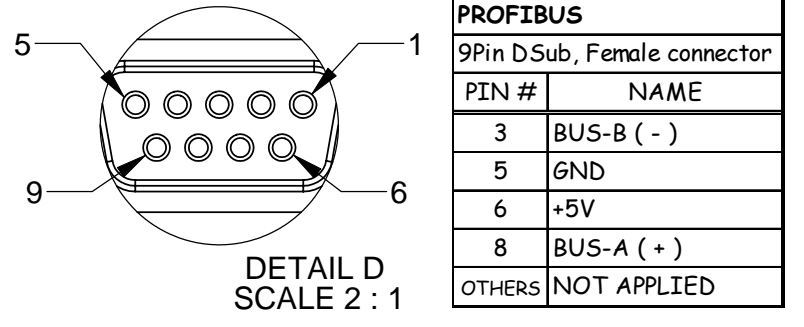
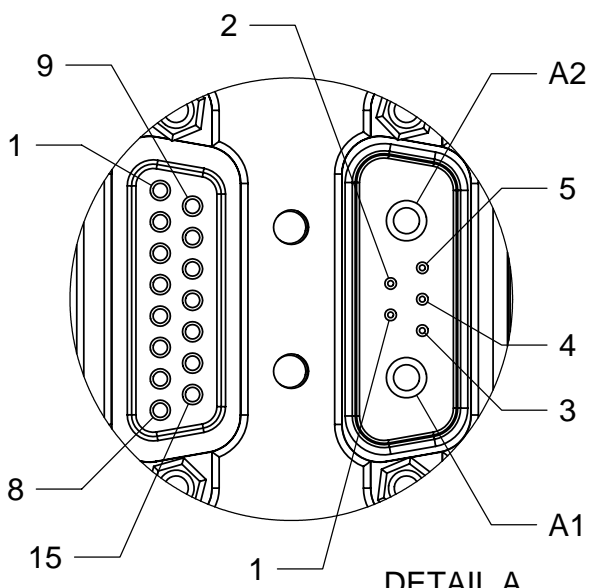
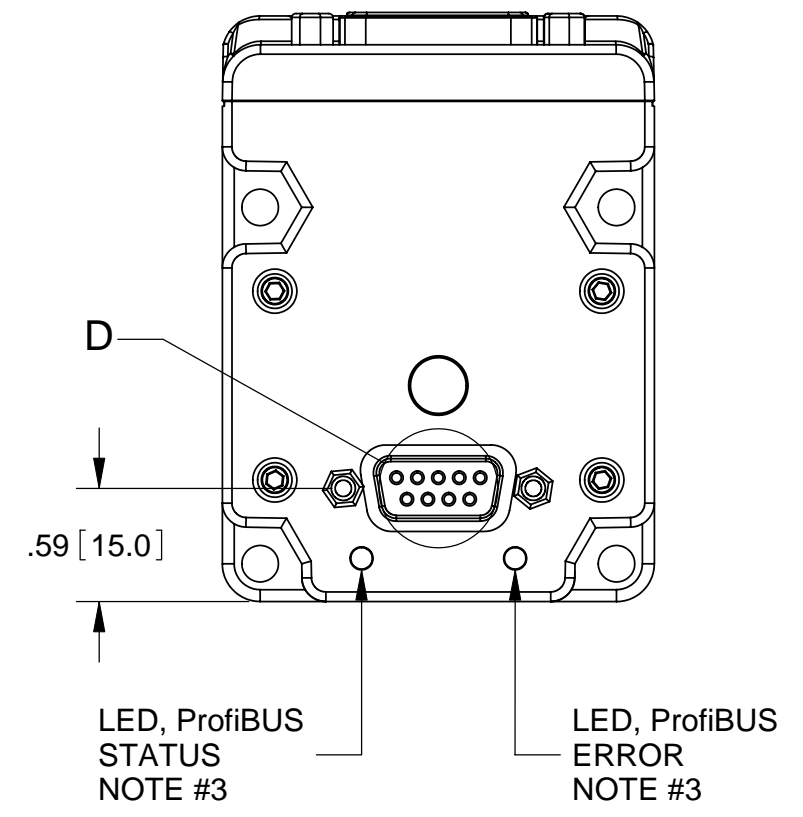
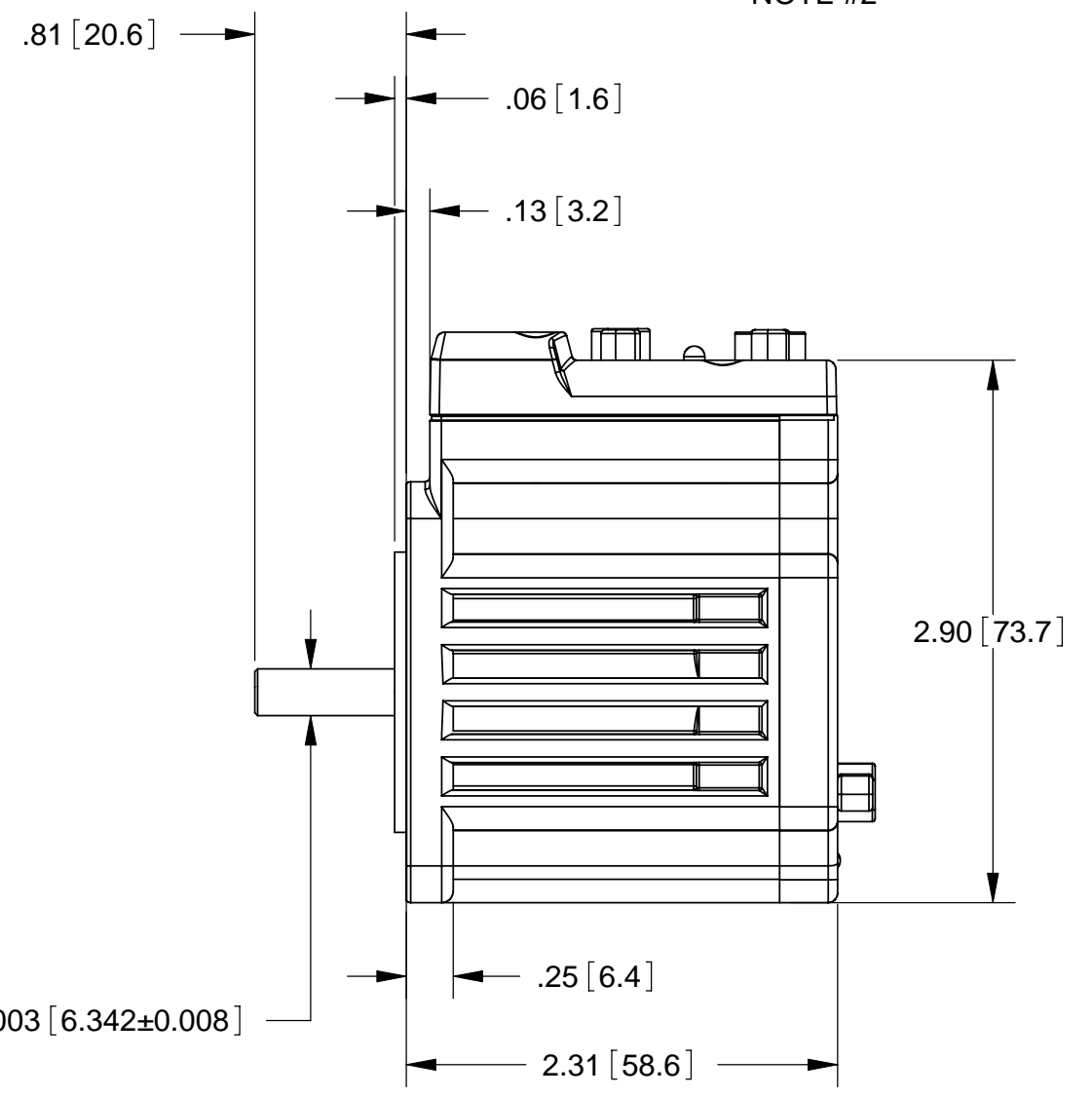
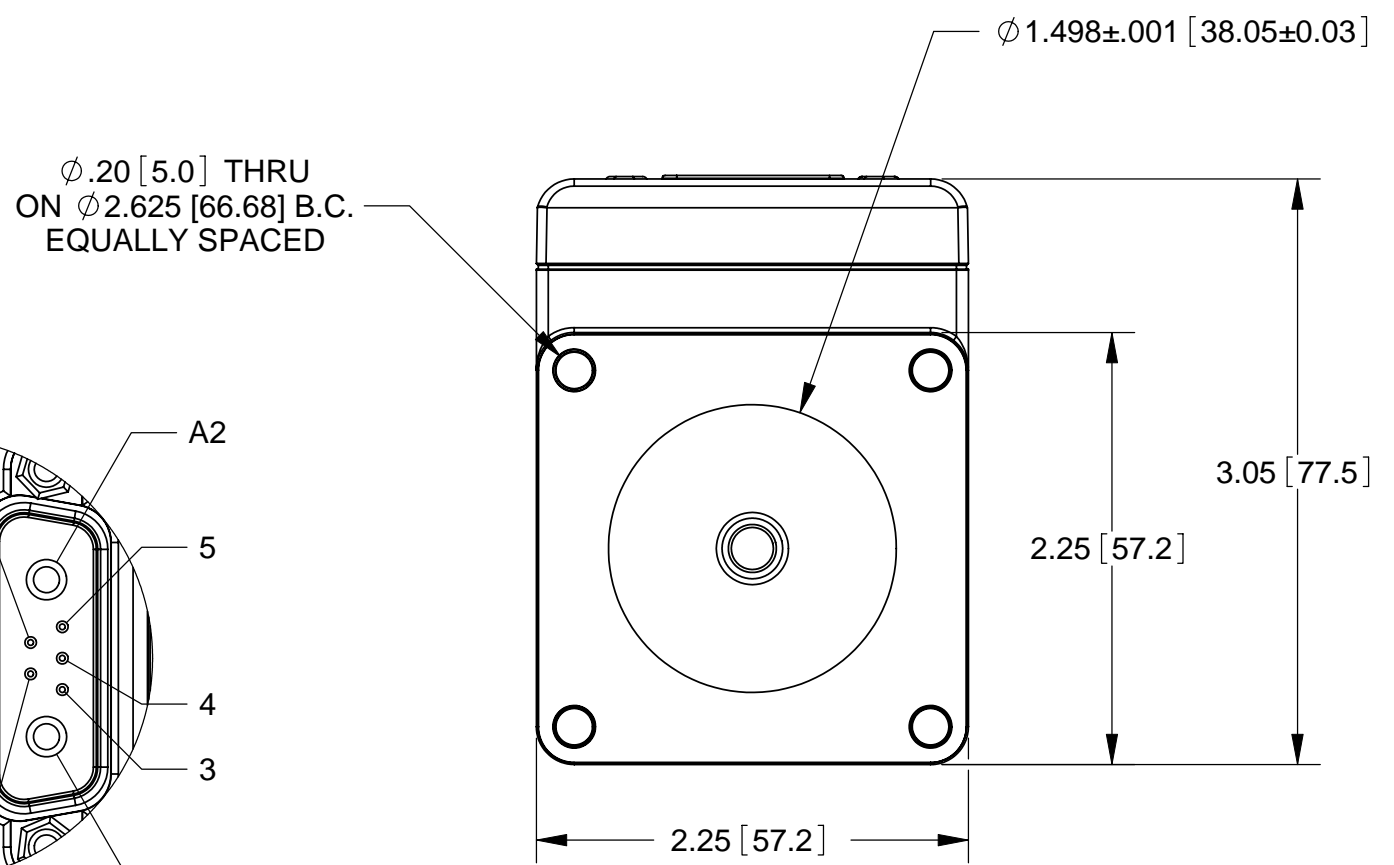
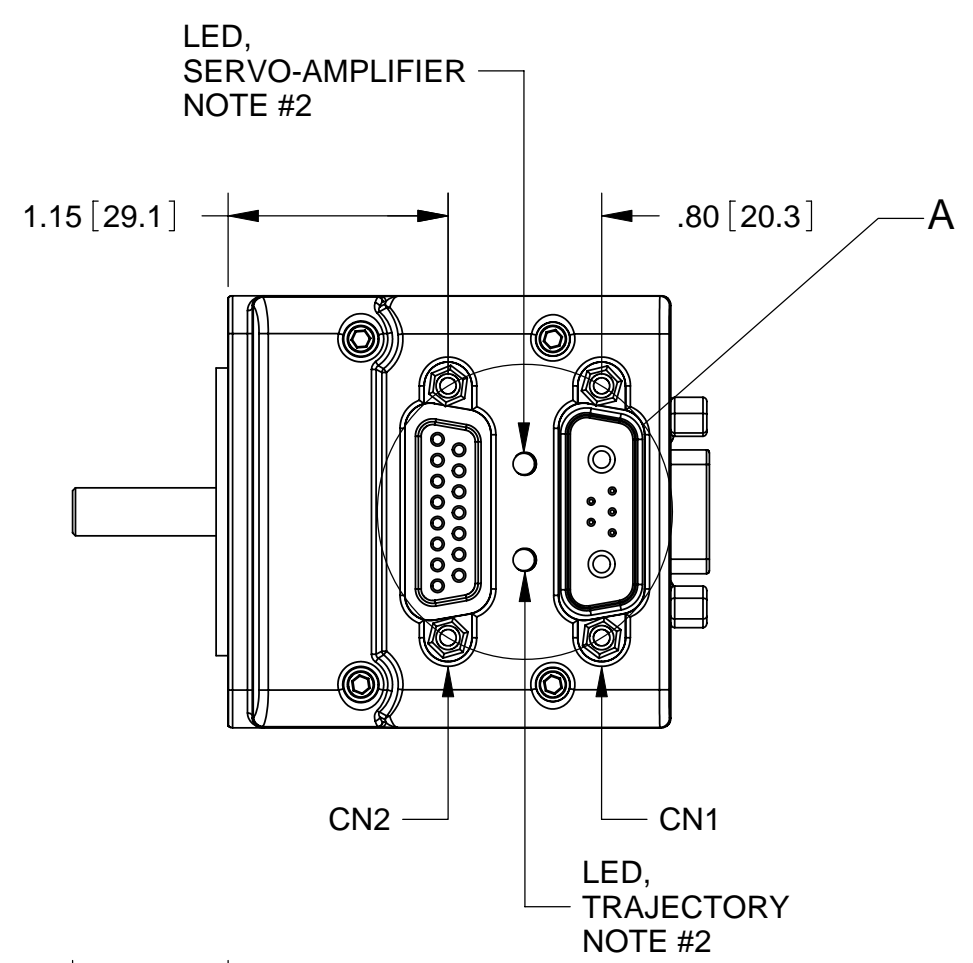
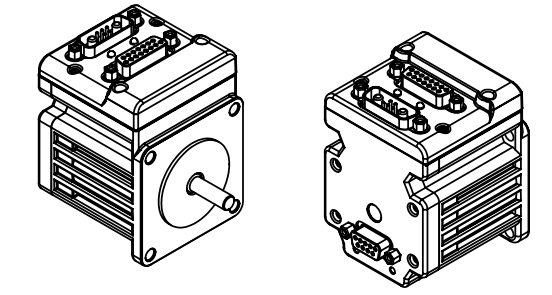


REV.	DESCRIPTION	ZONE	ECO	DATE	APPROVED
A	PRELIMINARY DRAWING			04/30/2009	M. TRAN

- NOTES:
- DRAWING APPLIES TO THE FOLLOWING SMARTMOTOR WITH PART NUMBERS:
 SM2315D-PB SM2315D-DEPB SM2315DT-PB SM2315DT-DEPB
 SM2316D-PBPLS2 SM2316D-DEPBPLS SM2316DT-PBPLS2 SM2316DT-DEPBPLS2
 SM23165D-PB SM23165D-DEPB SM23165DT-PB SM23165DT-DEPB
 - 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)
 - PROFIBUS LEDS STATE, AFTER MOTOR POWER-UP PROFIBUS GATEWAY INITIALIZATION:
 - LED, PROFIBUS STATUS
 - OFF = NO CONNECTION TO PROFIBUS HOST
 - GREEN = CONNECTION TO PROFIBUS HOST ESTABLISHED.
 - LED, PROFIBUS ERROR
 - OFF = NO BUS TRANSMISSION ERROR
 - RED = BUS TRANSMISSION ERROR HAS OCCURRED
 - 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 M5x0.8.



CN2 : 15PIN D-SUB FEMALE CONNECTOR					
PIN #	NAME	FUNCTIONS			
		Default Function	Secondary Function	Digital I/O	Analog Input (10bit Res)
1	I/O A	External Encoder A Input	Step Input	5V TTL	0 to 5V
2	I/O B	External Encoder B Input	Direction Input	5V TTL	0 to 5V
3	I/O C	Positive Limit Input		5V TTL	0 to 5V
4	I/O D	Negative Limit Input		5V TTL	0 to 5V
5	I/O E	AniLink Data +-		5V TTL +-	0 to 5V +-
6	I/O F	AniLink Clock +-		5V TTL +-	0 to 5V +-
7	I/O G	G-Synchronization	RS485-ISO Adaptor Flow Control	5V TTL	0 to 5V
8	ENC A OUT	Encoder A Output			
9	ENC B OUT	Encoder B Output			
10	RS232 Tx	RS232 Transmit			
11	RS232 Rx	RS232 Receive			
12	+5Vdc OUT	+5Vdc Output			
13	GND	Signal GND			
14	POWER GND	POWER GND	For -DE Option, Pin 15 is Contorl power (20V to 48V) and Pin 14 is PWR GND. ^PIN 15 is not connected to A1.		
15	POWER	POWER			

CN1 : 7PIN COMBO D-Sub Male Connector				
PIN #	NAME	FUNCTIONS	Ties to CN2, PIN #	
1	I/O G	G-Synchronization	7	
2	+5V dc OUT	+5Vdc Output	12	
3	RS232 Tx	RS232 Transmit	10	
4	RS232 Rx	RS232 Received	11	
5	GND	Signal GND	13	
A1	DRIVE PWR	Dirve Power (20 - 48Vdc)	15^	
A2	POWER GND	POWER GND	14	

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MATERIAL ALUMINUM HOUSING	FINISH BLACK ANODIZED HOUSING	DRAWN M. TRAN	DATE 4/23/2009
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE INCHES AND TOLERANCES ARE: DECIMALS: .XXX ± .005 ANGLES: .XX ± 0.25° .XX ± .01 .X ± 0.5°		ENGR M. TRAN	DATE 4/23/2009

INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M - 1994.
ALL DIMENSIONS, TOLERANCES AND ROUGHNESS APPLY AFTER FINISHING, WHEN APPLICABLE.
NO BURRS ALLOWED, BREAK SHARP EDGES .01 MAX.

Animatics Corporation

TITLE: **SM2315D, SM2316D, AND SM23165D SERIES WITH PROFIBUS OPTION**

SIZE: **C** DWG NO: **SM2315D SM2316D SM23165D PROFIBUS**

DO NOT SCALE DRAWING SCALE: **1:1** SHEET: **1 OF 1**