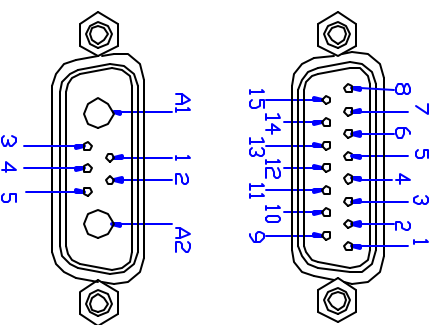


NOTES: 1) INTERNAL 1000 LINE ENCODER, 4000 ENCODER COUNTS PER REVOLUTION.
 INDEX LINE ON ENCODER WHEEL.
 2) TIED INTERNALLY: TX - CN2 PIN 10 TO CN1 PIN 9
 RX - CN2 PIN 11 TO CN1 PIN 4
 +48V - CN2 PIN 12 TO CN1 PIN 2
 GND - CN2 PIN 13 TO CN1 PIN 5
 3) FOR HIGH SPEED OR HIGH TORQUE OPERATION USE POWER PIN A1 AND A2 ON CN1.
 4) LED, SERVO-AMPLIFIER INDICATOR: RED = SERVO-AMPLIFIER OFF (DEFAULT STATE)
 GREEN = SERVO-AMPLIFIER ON (OR SERVO-ING IN PLACE)
 CLEAR = NOT IN CONTROLLED TRAJECTORY (DEFAULT STATE)
 GREEN = IN CONTROLLED TRAJECTORY (CONTROLLED MOTION)
 LED, TRAJECTORY INDICATOR: GREEN = IN CONTROLLED TRAJECTORY (CONTROLLED MOTION)
 CLEAR = NOT IN CONTROLLED TRAJECTORY (DEFAULT STATE)
 GREEN = IN A CONTROLLED TRAJECTORY (MOTION)
 RED = AMPLIFIER OFF (DEFAULT STATE)
 GREEN = AMPLIFIER ON (OR SERVO-ING IN PLACE)

CN1: CONNECTOR 1, 7 PIN COMBD D-SUB MALE CONNECTOR	
PIN#	NAME
1	I/O G
2	+5V DUT
3	RS232 TX
4	RS232 RX
5	GND
A1	PWR
A2	PWR GND

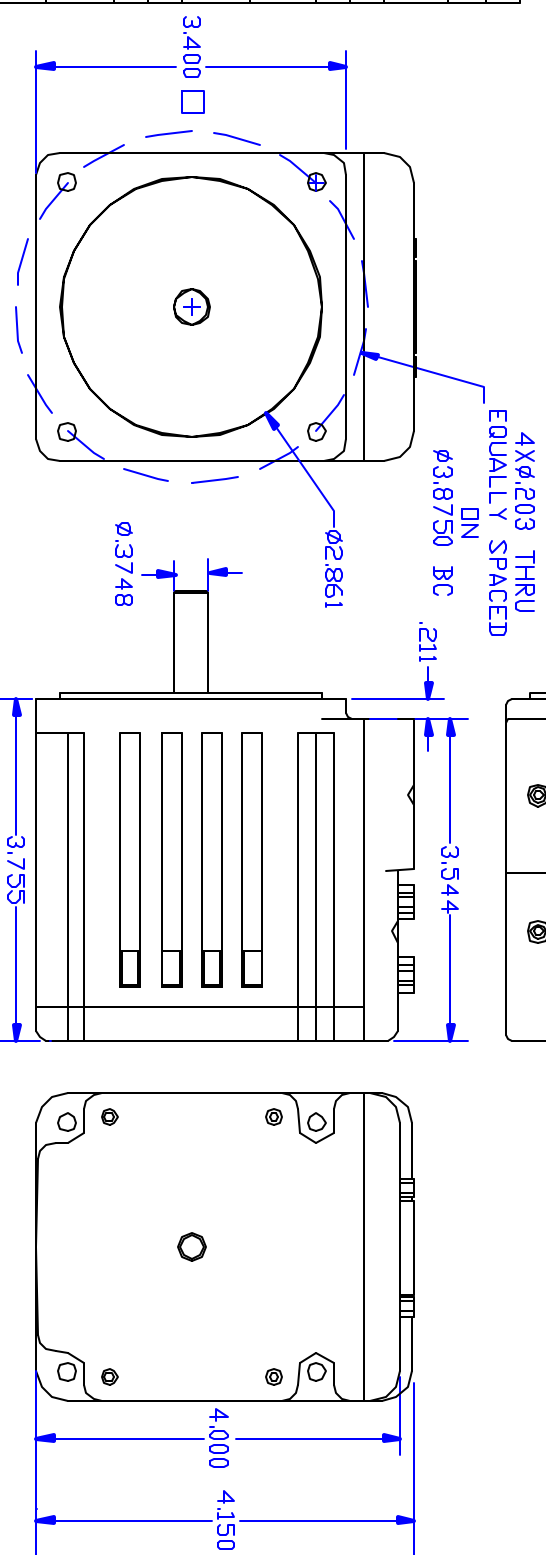
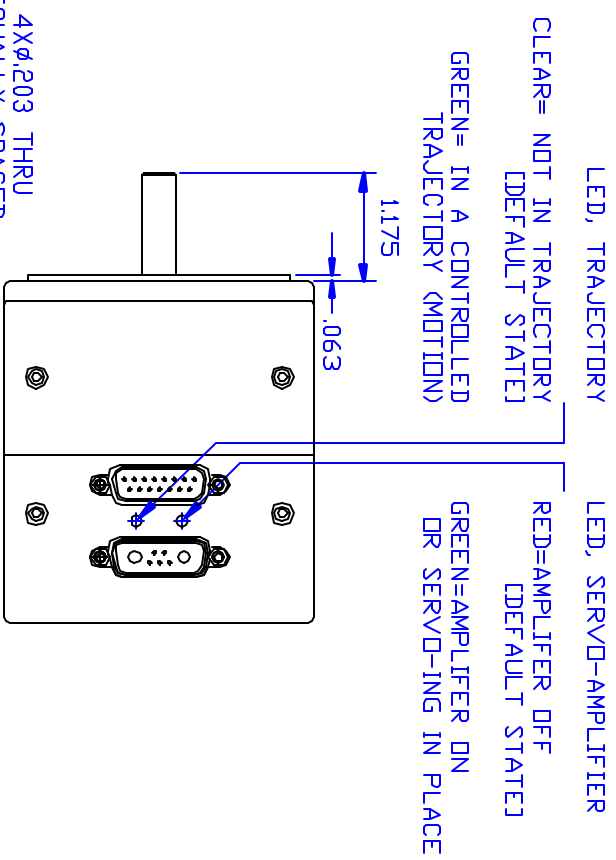


CN2: CONNECTOR 2, 15 PIN I/O D-SUB FEMALE CONNECTOR			
SOFTWARE SELECTABLE FUNCTIONS			
PIN#	NAME	FUNCTIONS	DIGITAL I/O (TTL) ANALOG INPUT (10 bit)
1	I/O A	Ext Encoder A Input	Step Input
2	I/O B	Ext Encoder B Input	Direction Input
3	I/O C	Positive (Right)	5V
4	I/O D	Negative (Left)	5V
5	I/O E	Limit Input	5V
6	I/O F	Anlink Data	0 to 5V
7	I/O G	Anlink Clock	0 to 5V
8	ENCA DUT	G-Synchronization Pin	RS-485 Adapter Flow Control Line
9	ENCB DUT	Encoder A Output	
10	RS232 TX	Encoder B Output	
11	RS232 RX	RS232-Transmit	
12	+5V DUT	RS232-Receive	
13	GND	+5V DC Output	
14	PWR GND	Signal Ground	
15	PWR	Power Ground	

NOTE: CURRENT CANNOT EXCEED 1AMPS ON PIN 14 AND PIN 15

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PART NO. SM3416D		DRAWING REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION
09/30/03	PRODUCTION RELEASE		



ITEM NO.	QTY	PART NO.	DESCRIPTION	MATERIAL SPECIFICATION
PARTS LIST				

Animatics Corporation

SM3416D

UNLESS OTHERWISE SPECIFIED DIMENSIONS & TOLERANCES ARE PER ANSI Y14.5M AND ARE IN INCHES. TOLERANCES ARE AS FOLLOWS: DECIMALS .XX4 ANGLES ± .XXXX		THIRD ANGLE PROJECTION		TITLE SM3416D	
MATERIAL XXXX		DRAWN TC		DATE 2/13/04	
FINISH BLACK ECDAT		SCALE N/D T/D SCALE		SIZE B	
				COMPUTER GENERATED DRAWING	
				PART NO. SM3416D	
				CAD FILE NAME SM3416D	
				SHEET 1 OF 1	
				DWG REV 1	