

NOTES: 1) INTERNAL 1000 LINE ENCODER, 4000 ENCODER COUNTS PER REVOLUTION.

INDEX LINE ON ENCODER WHEEL.

2) TYPED 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-AMP IN PLACE)

CLEAR = NOT IN CONTROLLED TRAJECTORY (DEFAULT STATE)

GREEN = IN CONTROLLED TRAJECTORY (CONTROLLED MOTION)

5) ALL DIMENSIONS ARE NORMAL UNLESS OTHERWISE SPECIFIED.

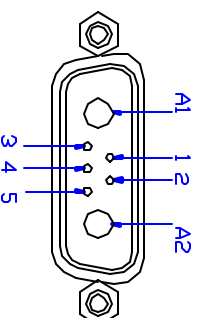
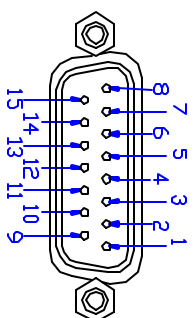
6) PINOUT IS FOR SERVIDA MOTORS NOT EQUIPPED WITH DRIVE ENABLE.

MOTORS EQUIPPED WITH DRIVE ENABLE THE OPTION HAVE ALTERNATE PINOUT. REFER TO DRAWING FOR THE SERVIDA MOTOR.

7) MOTOR COMES WITH FIRMWARE VERSION PLUS AS STANDARD EXCEPT FOR 62218D.

CN1:CONNECTOR 1, 7 PIN COMBD D-SUB MALE CONNECTOR

PIN#	NAME	FUNCTIONS
1	I/O G	G-Synchronization Pin
2	+5V DUT	+5V DUT
3	RS232 TX	RS232-Transmit
4	RS232 RX	RS232-Receive
5	GND	Signal Ground
A1	PWR	Power,+20 to 48V dc
A2	PWR GND	Power Ground



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	5V	0 to 5V
2	I/O B	Ext Encoder B Input	5V	0 to 5V
3	I/O C	Positive (Right)	5V	0 to 5V
4	I/O D	Negative (Left)	5V	0 to 5V
5	I/O E	Limit Input	5V	0 to 5V
6	I/O F	Anilink Data	5V	0 to 5V
7	I/O G	Anilink Clock	5V	0 to 5V
8	ENCA DUT	G-Synchronization Pin	5V	0 to 5V
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.

PART NO. SV3416D

DWG REV	DESCRIPTION	DATE
1	PRODUCTION RELEASE	09/30/03

DRAWING REVISIONS

LED, TRAJECTORY

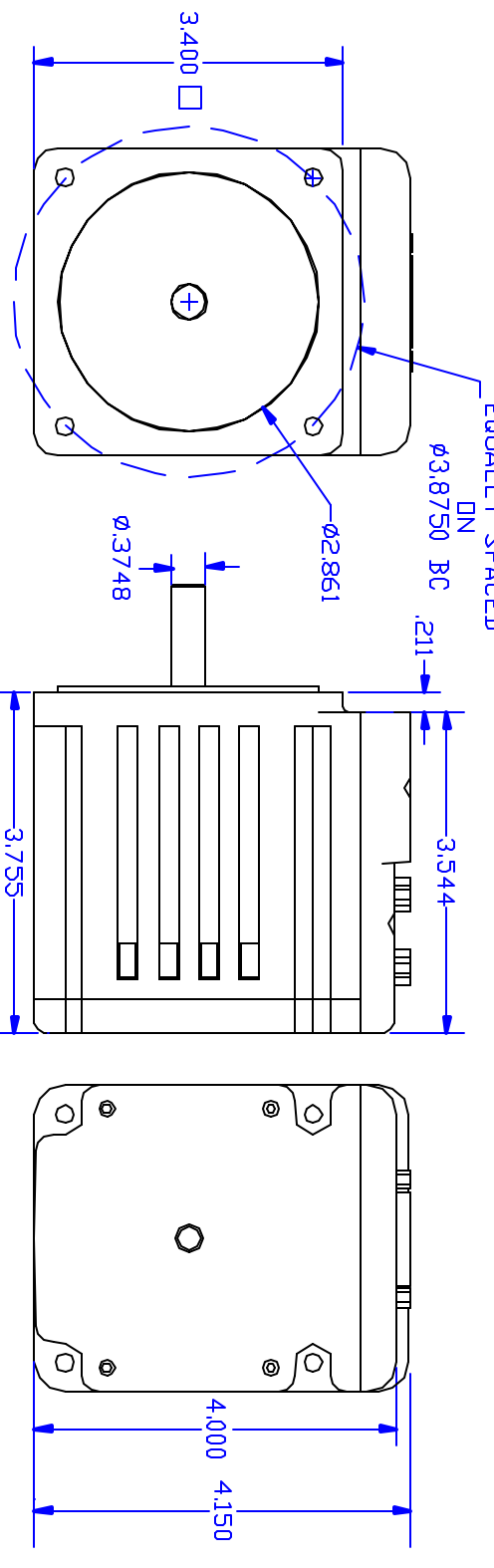
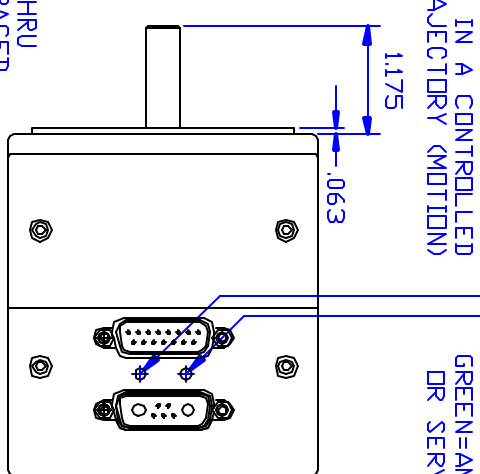
CLEAR= NOT IN TRAJECTORY [DEFAULT STATE]

GREEN= IN A CONTROLLED TRAJECTORY (MOTION)

LED, SERVO-AMPLIFIER

RED=AMPLIFIER OFF [DEFAULT STATE]

GREEN=AMPLIFIER ON OR SERVO-AMP IN PLACE



PARTS LIST

Servida, Inc.

SV3416D

UNLESS OTHERWISE SPECIFIED DIMENSIONS & TOLERANCES ARE PER ANSI Y14.5M AND ARE IN INCHES. TOLERANCES ARE AS FOLLOWS:

DECIMALS .XX1 .01 ANGLES ±

XXX1 .005 .XXXX

MATERIAL ALUMINUM

FINISH BLACK ANODIZE

SCALE NDT TO SCALE

DRAWN MT DATE 03/08/04

TITLE

SV3416D

SIZE B

COMPUTER GENERATED DRAWING

PART NO. SV3416D

CAD FILE NAME SV3416D-F1

SIMILAR TO SV3416D-F1

SHEET 1 OF 1

DWG REV 1

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