8 7 5 4 NOTES: DRAWING APLLIES TO THE FOLLOWING SMARTMOTOR WITH PART NUMBERS: 1. SM34165D-C-AD1 SM34165D-DE-C-AD1 SM34165D-SH-C-AD1 SM34165D-DESH-C-AD1 LED, SERVO-AMPLIFIER: 2. CLEAR = CONTROLLER POWER NOT AVAILABLE RED = FAULTFLASH GREEN = DRIVE (AMPLIFIER) IS OFF F GREEN = DRIVE (AMPLIFIER) IS ON LED, TRAJECTORY CLEAR = NOT IN CONTROLLED TRAJECTORY (DEFAULT STATE) GREEN = IN CONTROLLED TRAJECTORY (CLOSE LOOP MOTION) 3. CANopen ERROR LED (RED) CLEAR = NO ERRORSINGLE 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 4. PINS. MUST PROVIDE POWER TO CONTROLLER AND DRIVE POWER TO OPERATE. SEE TABLE CN2 BELOW FOR PIN ASSIGNMENT. Е DIMENSIONS IN [] ARE mm. 5. RECOMMENDED BOLTING SCREW SIZE TO BE 10-32 OR M5, SOCKET CAP. 6. D Ø2.875±.002 [73.03±0.05] 4X Ø.203 [5.15] THRU ON Ø3.875 [98.43] B.C. EQUALLY SPACED O O Ø.3745±.0003 9.512±0.008 4.16 105.7 С ()3.40 [86.3] 0  $\bigcirc$ 3.40 [86.4] -1.19[30.2] DETAIL A SCALE 1.5 : 1 15 CN2: 15PIN D-SUB FEMALE CONNECTOR FUNCTIONS PIN # NAME Default Function Secondary Function Digital I/O Analog Input I/O A External Encoder A Input Step Input 5V TTL 0 to 5V 1 I/O B 5V TTL 2 External Encoder B Input **Direction Input** 0 to 5V I/OC 5V TTL 3 Positive Limit Input 0 to 5V 4 I/O D Negative Limit Input 5V TTL 0 to 5V I/O E 5 R5485 A ( Pos ) 5V TTL 0 to 5V I/O F R5485 B ( Neg ) CN1: 7PIN COMBO D-Sub Male Connector 5V TTL 0 to 5V 6 I/OG G-Synchronization RS485-ISO Adopter Data 5V TTL 0 to 5V Ties to CN2 7 PIN# NAME FUNCTIONS INFORMATION CONFIDENTIAL PIN # 8 ENC A OUT Encoder A Output MATERIAL Α 9 ENC B OUT Encoder B Output 1 I/O G G-Synchronization 7

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 POWER

7

RS232 Transmit

RS232 Receive

Signal GND

+5Vdc Supply Out

10

11

12

13

14

15

R5232 Tx

R5232 Rx

GND

POWER

8

+5Vdc OUT

6

2

3

4

5

A1

+5V dc OUT

R5232 Tx

R5232 Rx

DRIVE PWR

A2 POWER GND POWER GND

GND

5

Dirve Power (20 - 48Vdc)

+5Vdc Output

RS232 Transmit

RS232 Received

Signal GND

12

10

11

13

15^

14

INCH

THIRD ANGLE

PROJECTION

 $\bigcirc$ 

