8 5 7 4 NOTES: 1. DRAWING APLLIES TO THE FOLLOWING SMARTMOTOR WITH PART NUMBERS: SM34165D-BRK-C SM34165D-DEBRK-C SM34165D-DEBRKSH-C SM34165D-BRKSH-C 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) LED, CANopen ERROR LED (RED) 3. 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 [5.1] 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] — 1.17 [29.7] -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 0 to 5V 2 External Encoder B Input Direction Input I/O C 3 5V TTL 0 to 5V Positive Limit Input

	4	I/O D	Negative Limit Input		5V TTL	0 to 5V					
	5	I/O E		R5485 A (Pos)	5V TTL	0 to 5V					
A	6	I/O F		R5485 B (Neg)	5V TTL	0 to 5V	CN1: 7PIN COMBO D-Sub Male Connector			CONFIDENTIAL. THE	
	7	I/O G	G-Synchronization	RS485-ISO Adopter Data	5V TTL	O to 5V	PIN #	NAME	FUNCTIONS	Ties to CN2,	AND IS PROTECTED AUTHORIZED BY ANI
	8	ENC A OUT	Encoder A Output		•		FIN #	NAME	TONCTIONS	PIN #	
	9	ENC B OUT	Encoder B Output				1	I/O G	G-Synchronization	7	
	10	R5232 Tx	R5232 Transmit				2	+5V dc OUT	+5Vdc Output	12	HOUSING
	11	R5232 Rx	R5232 Receive				3	R5232 Tx	R5232 Transmit	10	INCH
	12	+5Vdc OUT	+5Vdc Supply Out				4	R5232 Rx	R5232 Received	11	THIRD ANGLE
	13	GND	Signal GND				5	GND	Signal GND	13	PROJECTION
	14	POWER GND	POWER GND	For -DE Option, Pin 15 is Contorl power (20V to 48V) and			A1	DRIVE PWR	Dirve Power (20 - 48Vdc)	15^	
	15	POWER	POWER	Pin 14 is PWR GND. ^PIN 15 is not connected to A1.			A2	POWER GND	POWER GND	14	
8				7		6	-		5		4

