

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

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Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

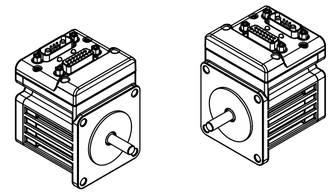
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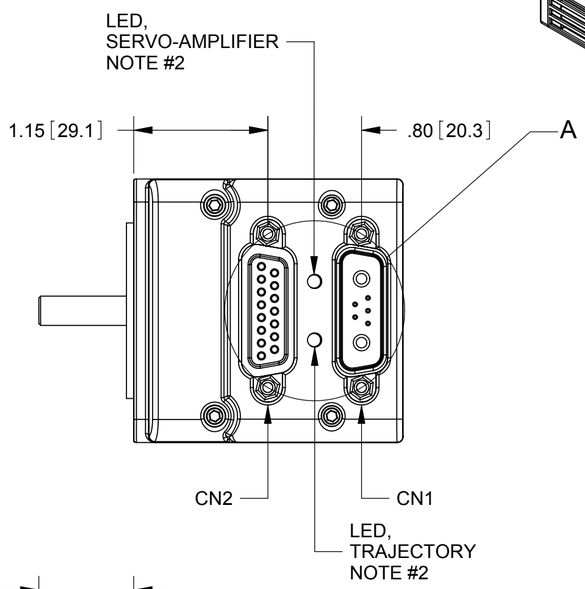
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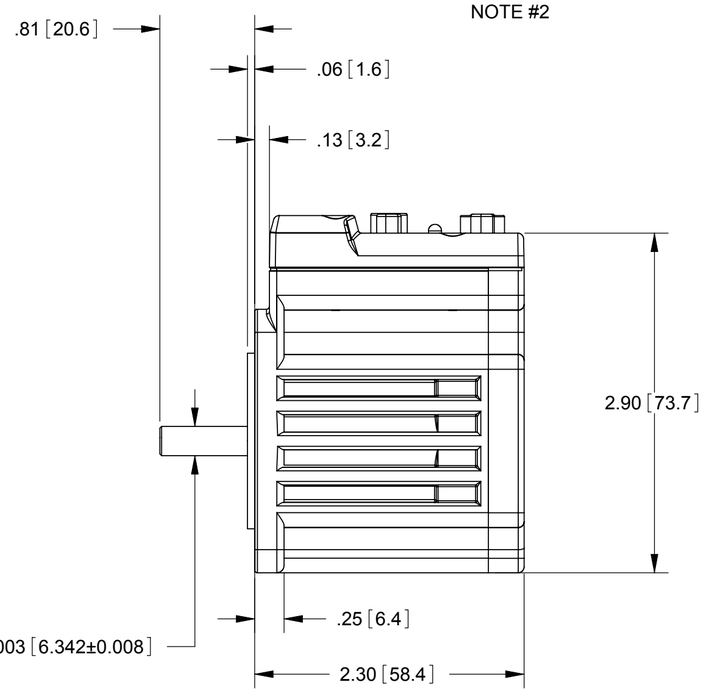
REV.	DESCRIPTION	ZONE	ECO	DATE	APPROVED
1	DRAWING RELEASE			04/29/2009	M. TRAN

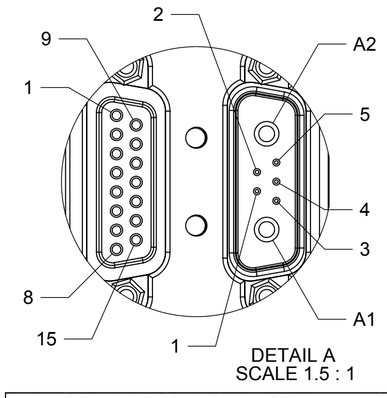
NOTES:
1. DRAWING APLLIES TO THE FOLLOWING SMARTMOTOR WITH PART NUMBERS:
   SM2315D SM2315D-DE SM2315DT SM2315DT-DE
   SM2316D-PLS2 SM2316D-DEPLS2 SM2316DT-PLS2 SM2316DT-DEPLS2
   SM23165D SM23165D-DE SM23165DT SM23165DT-DE
2. LED, SERVO-AMPLIFIER:
   - FOR SM2315D AND SM2316D
     - CLEAR = CONTROLLER POWER NOT AVAILABLE
     - RED = DRIVE (AMPLIFIER) IS OFF
     - GREEN = DRIVE (AMPLIFIER) IS ON
   - FOR SM23165D
     - 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)
3. 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.
4. DIMENSIONS IN [ ] ARE mm.
5. RECOMMENDED BOLTING SCREW SIZE TO BE 10-32 OR M5x0.8.









DETAIL A
SCALE 1.5 : 1

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 -	RS485 A (+) *	5V TTL	0 to 5V
6	I/O F	AniLink Clock -	RS485 B (-) *	5V TTL	0 to 5V
7	I/O G	G-Synchronization	RS485-ISO Adopter Flow Control	5V TTL	0 to 5V
8	ENC A OUT	Encoder A Output	* NOT AVAILABLE ON SM2315D + NOT AVAILABLE ON SM2316D - NOT AVAILABLE ON SM23165D		
9	ENC B OUT	Encoder B Output			
10	RS232 Tx	RS232 Transmit			
11	RS232 Rx	RS232 Receive			
12	+5Vdc OUT	+5Vdc Ouput			
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	FINISH	DRAWN	DATE
ALUMINUM HOUSING	BLACK ANODIZED HOUSING	M. TRAN	4/23/2009
		ENGR M. TRAN	DATE 4/23/2009

INCH
THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE INCHES AND TOLERANCES ARE:
DECIMALS: .XXX ± .005, .XX ± .01
ANGLES: .XX ± 0.25°, .X ± 0.5°
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

SIZE	DWG NO	SCALE	SHEET
C	SM2315D SM2316D SM23165D	1:1	1 OF 1

DO NOT SCALE DRAWING

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

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Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

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