



<u>ultramotion.com/servo-cylinder-datasheet</u>

servocylinder

Standard - Series A1



3D CAD Model with Mounting Options

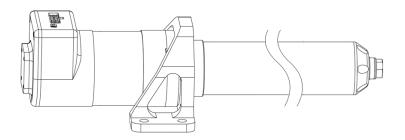
### Part Number:

#### A1CZ9A-B0M1E0

The A1 Series.

## Weights:

A1CZ9A: 2.91 lbs M1: 0.35 lbs

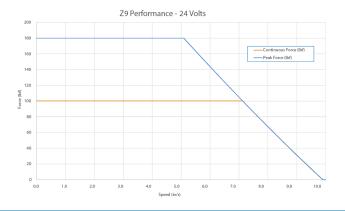


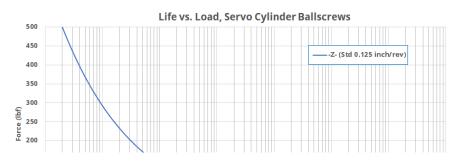
## **Standard Servo Cylinder**

The A1 Series actuator is our standard Servo Cylinder model. It is best suited to cleaner indoor environment, and is available at a lower cost than our other sealed models.

- IP50 Environmental protection
- Molex Micro-fit Connector

### **PERFORMANCE**

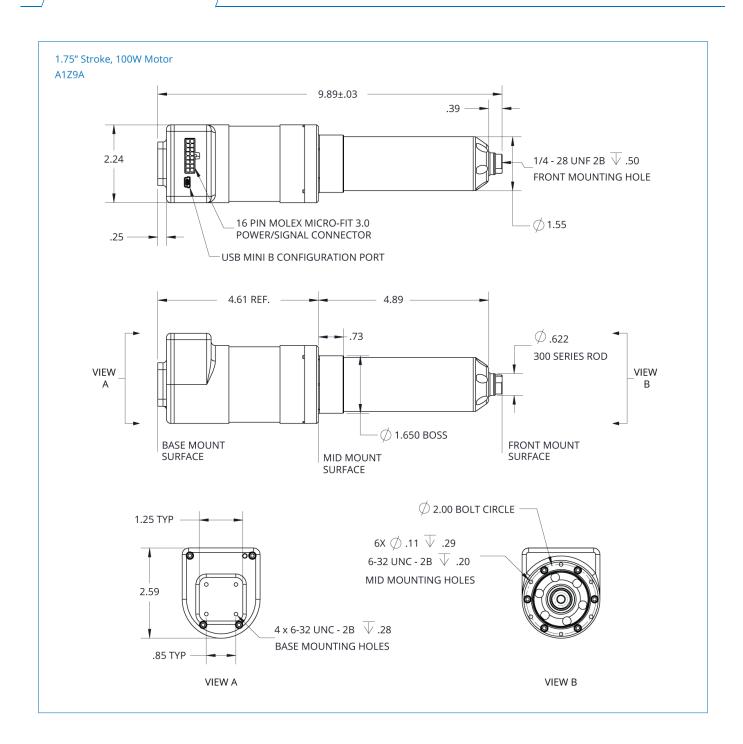


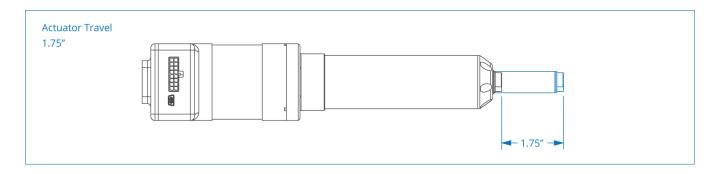


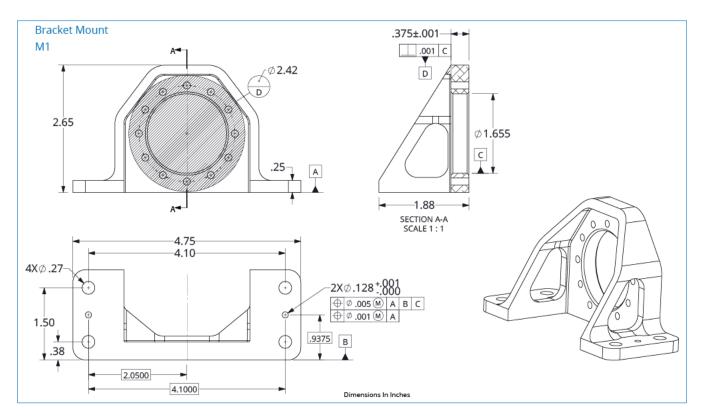
### Z (Standard Ball Screw) model features:

- High efficiency 1/8" lead ball screw with single length nut
- This screw/nut combination will backdrive against a load of ~10 lbf, without power
- Speeds to 14 in/s
- Forces to 170 lbf (continuous), 340 lbf (peak)
- Standard axial backlash <0.005"
- Contact Ultra Motion for applications requiring >10,000,000 inches of travel

## **DIMENSIONS**



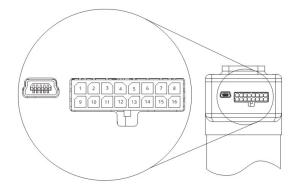




# ELECTRICAL INTERFACE

### **CAN Controller Option Code "C"**

The CAN controller uses a simple CAN 2.0B interface for the user to control position and motor current while monitoring detailed telemetry messages. Multiple actuators can be controlled via a single bus. An RS-485 serial interface is included for diagnostics, configuration, and field updating of the firmware.



No.	Pin for "C" Controller	Flying Lead Color (CBL-S-AV/AC-D) For "N" Controller only	Flying Lead Color (CBL-A1DEV)
1	CAN_L	GREEN	WHITE
2	GND	BLACK	BROWN
3	TRX-	GREEN (DB9)	GREEN
4	IN1+	PURPLE	VIOLET
5	IN2+	GREY	GRAY
6	IN3+	BLUE	BLUE
7	V+	RED (Spade Terminal)	RED (Spade Terminal)
8	V+	RED (Spade Terminal)	RED (Spade Terminal)
9	CAN_H	GREEN	RED
10	GND	RED (DB9)	BLACK
11	TRX+	YELLOW (DB9)	YELLOW
12	IN1-	ORANGE	ORANGE
13	IN2-	GREYW/ WHITE	PINK
14	IN3-	BLUEW/ WHITE	TAN
15	GND	BLACK (Spade Terminal)	BLACK (Spade Terminal)
16	GND	BLACK (Spade Terminal)	BLACK (Spade Terminal)

Chat directly with one of our engineers.

Email will be replied to within one business day.

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Our business hours: Monday - Friday 9AM - 5PM EST

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