PROGRESSIVE AUTOMATIONS

FORWARD THINKING

Scan for more information

PA-TS1

User Manual

V 1.0

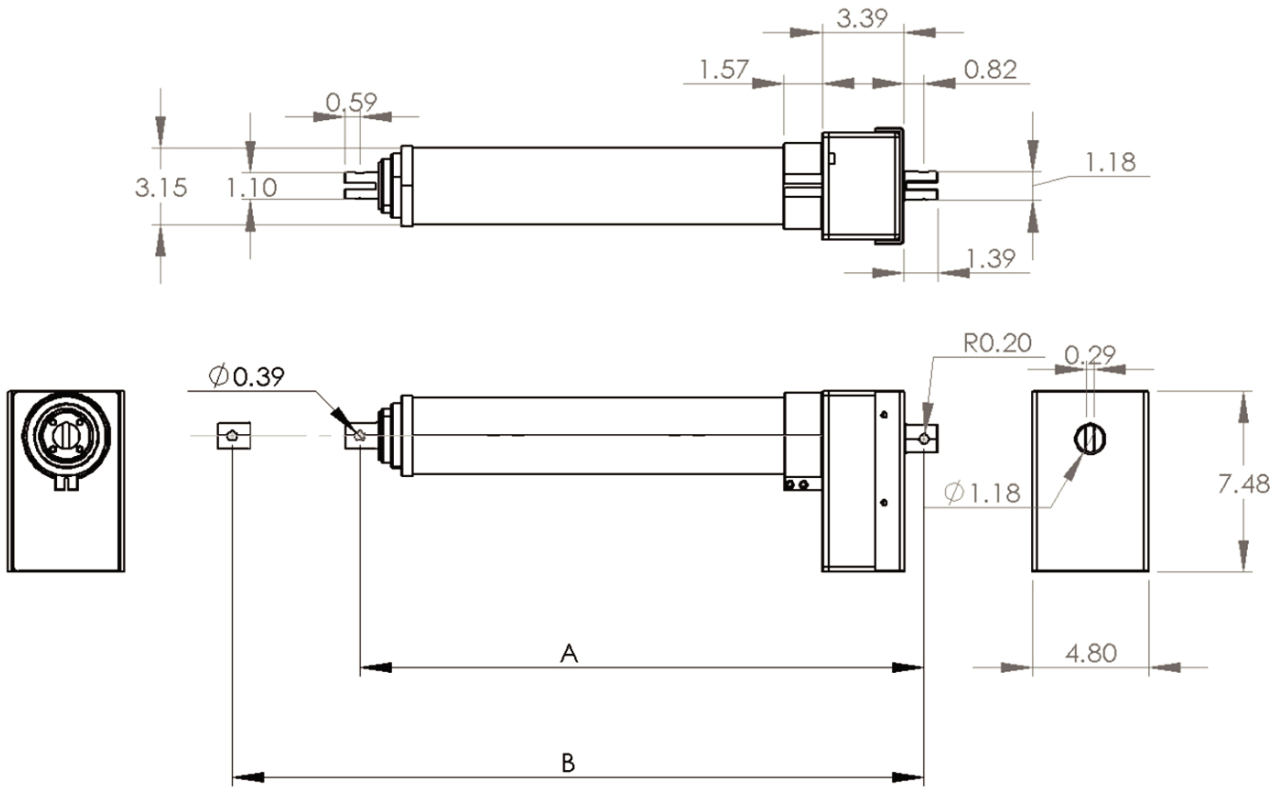
Table of Contents

Specifications

Force (lbf)		Speed (inch/sec)		24VDC	
Dynamic	Static	No Load	Full Load	No Load Current (A)	Full Load Current (A)
270	270	0.59	0.39	1.0	4.5

Stroke	12” and 24”
Limit Switch	Internal - Non-Adjustable
Feedback	None, Hall Effect
Screw Type	ACME Screw
Motor Type	Brushless DC Motor
Wire Length	40" (customizable)
Color	Gray
Housing Material	Steel
Rod Material	Steel
Gear Material	Polyoxymethylene (POM)
Noise	<45dB from 1.5m
Duty Cycle	10% (2 minutes on, 18 minutes off)
Operational Temperature	5ºC to 40ºC (41ºF to 104ºF)
Duty Cycle	20% (4 minutes on, 16 minutes off)
Operational Temperature	-25ºC to 65ºC (-13ºF to 149ºF)
Protection Class	IP43
Certifications	CE, RoHS
Mounting Brackets	BRK-02, BRK-01

Dimensions



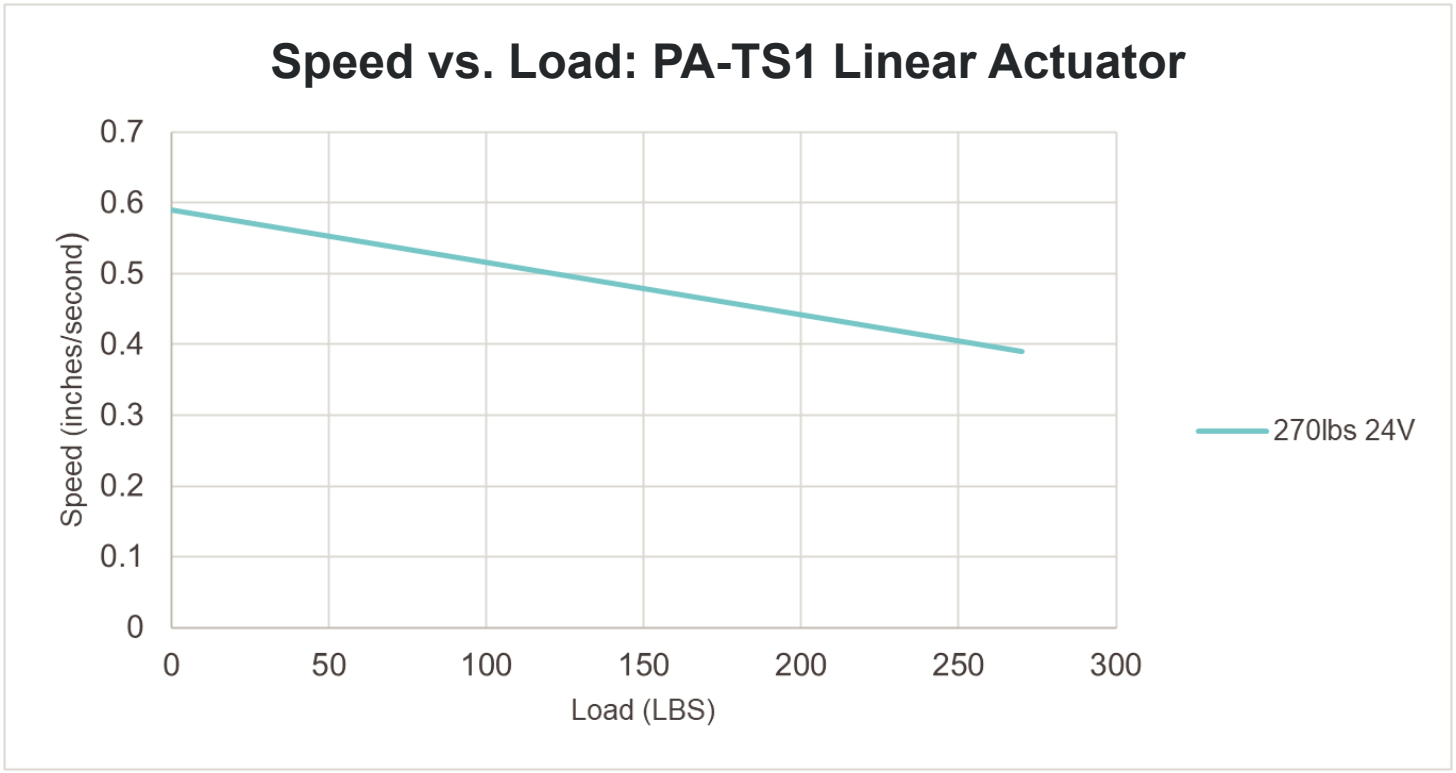
Standard and Hall Effect Models

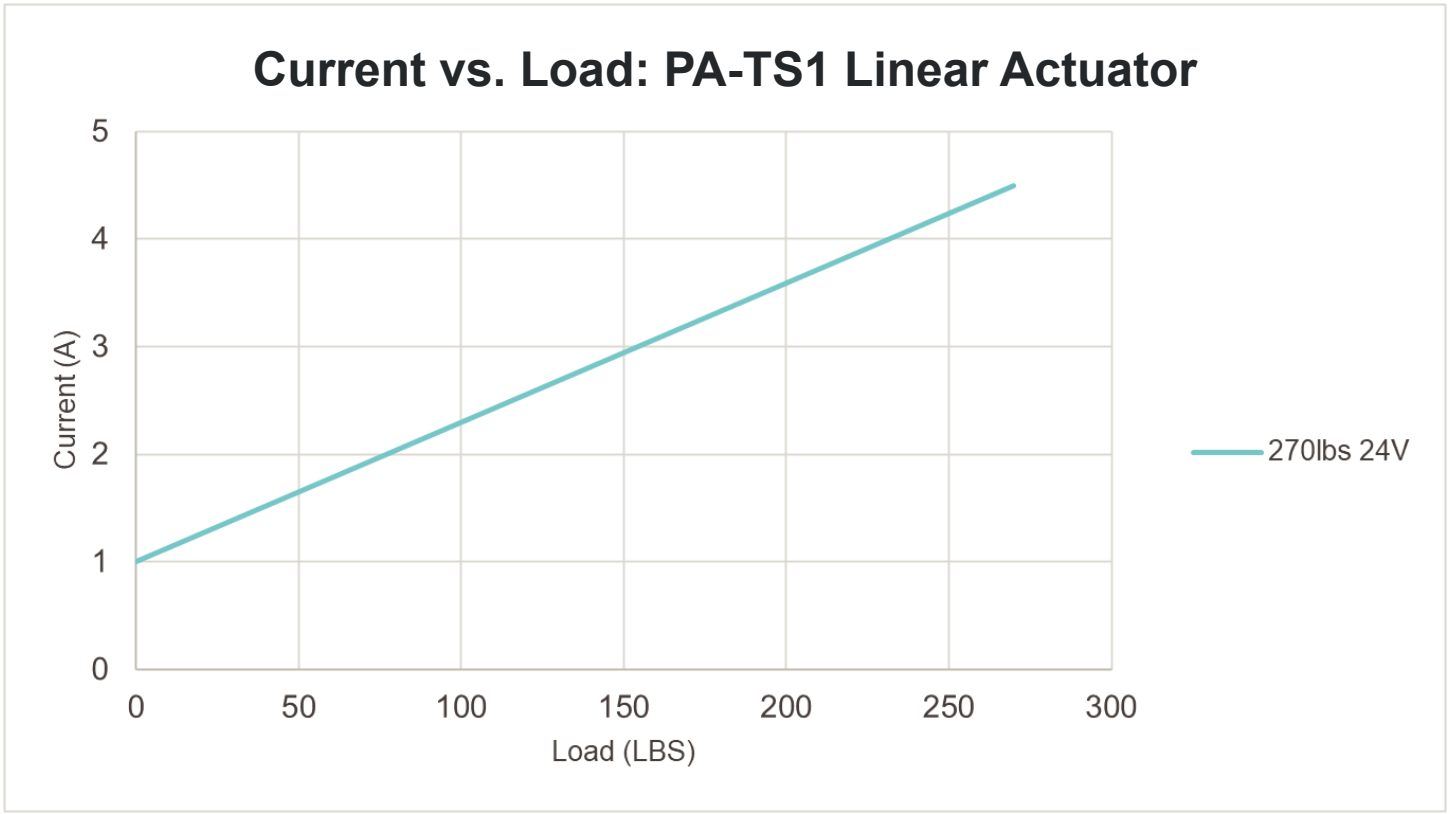
For Stroke Length

A (Fully Retracted) = Stroke Length/2 + 11.57"

B (Fully Extended) = Stroke Length*1.5 + 11.57"

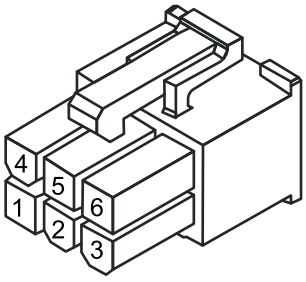
Characteristics





Connectors

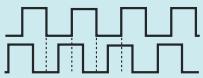
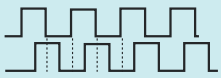
6-Pin Hall Effect Connector (Standard)



Motor		Hall Sensor			
4	5	2	3	1	6
M- (Retract)	M+ (Extend)	GND	+5VDC	Signal 2 Leads when Extending	Signal 1 Leads when Retracting

Component	Part Name	Part Number	Mating Part Number
Housing	Molex Mini-Fit Jr. 6-Pin Receptacle	39-01-2060	39-01-2061
Terminals	Molex Mini-Fit Jr. Female Terminal	39-00-0038	39-00-0040

Hall Effect Specifications

Output Signal Extending	Output Signal Retracting
Hall Effect 1 Signal Hall Effect 2 Signal 	Hall Effect 1 Signal Hall Effect 2 Signal 

Force (lbs)	Resolution (pulses/inch)
270	457