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**PA-TS1**  
**User Manual**

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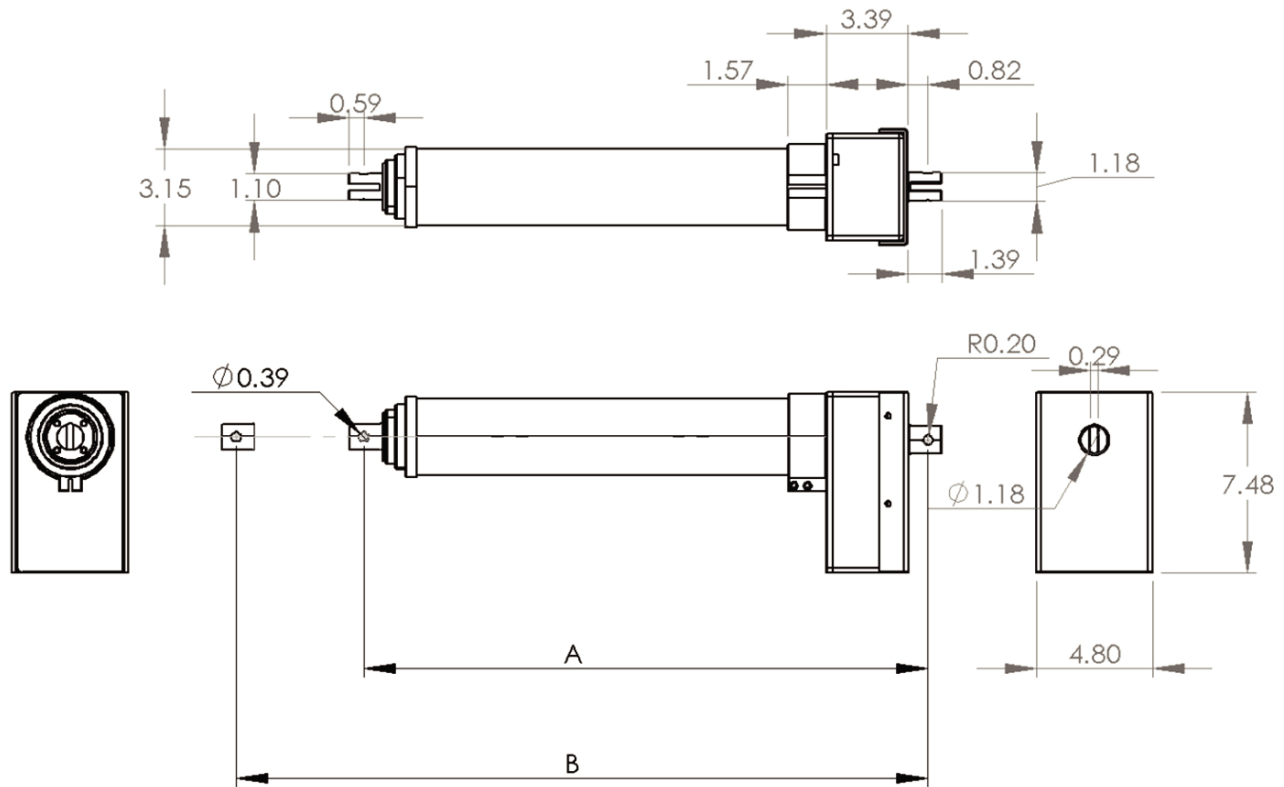
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# Specifications

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

<b>Stroke</b>	12" and 24"
<b>Limit Switch</b>	Internal - Non-Adjustable
<b>Feedback</b>	Hall Effect Sensor
<b>Screw Type</b>	ACME Screw
<b>Motor Type</b>	Brushless DC Motor
<b>Wire Length</b>	40" (customizable)
<b>Color</b>	Gray
<b>Housing Material</b>	Steel
<b>Rod Material</b>	Steel
<b>Gear Material</b>	Polyoxymethylene (POM)
<b>Noise</b>	<45dB from 1.5m
<b>Duty Cycle</b>	10% (2 minutes on, 18 minutes off)
<b>Operational Temperature</b>	5°C to 40°C (41°F to 104°F)
<b>Duty Cycle</b>	20% (4 minutes on, 16 minutes off)
<b>Operational Temperature</b>	-25°C to 65°C (-13°F to 149°F)
<b>Protection Class</b>	IP43
<b>Certifications</b>	CE, RoHS
<b>Mounting Brackets</b>	BRK-02, BRK-01

# Dimensions



# Standard and Hall Effect Models

Hole to Hole			
PA-TS1	Stroke	12	24
	A	17.57	23.57
	B	29.57	47.57

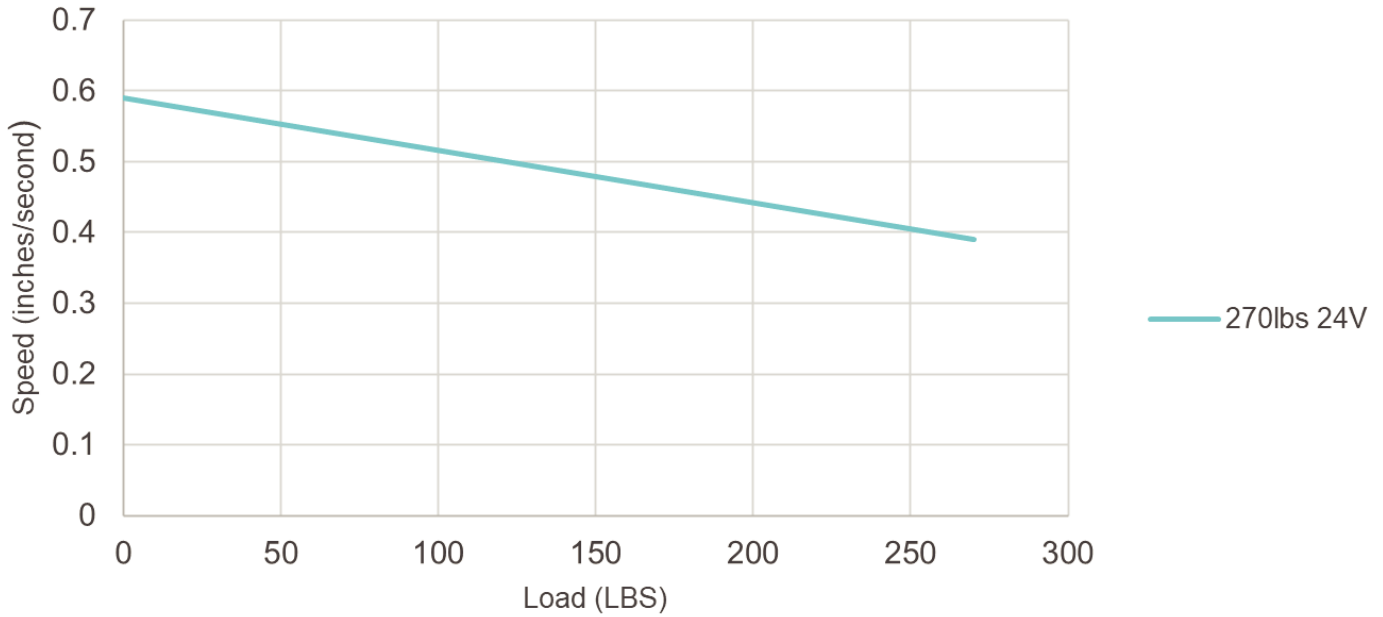
### For Stroke Length:

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

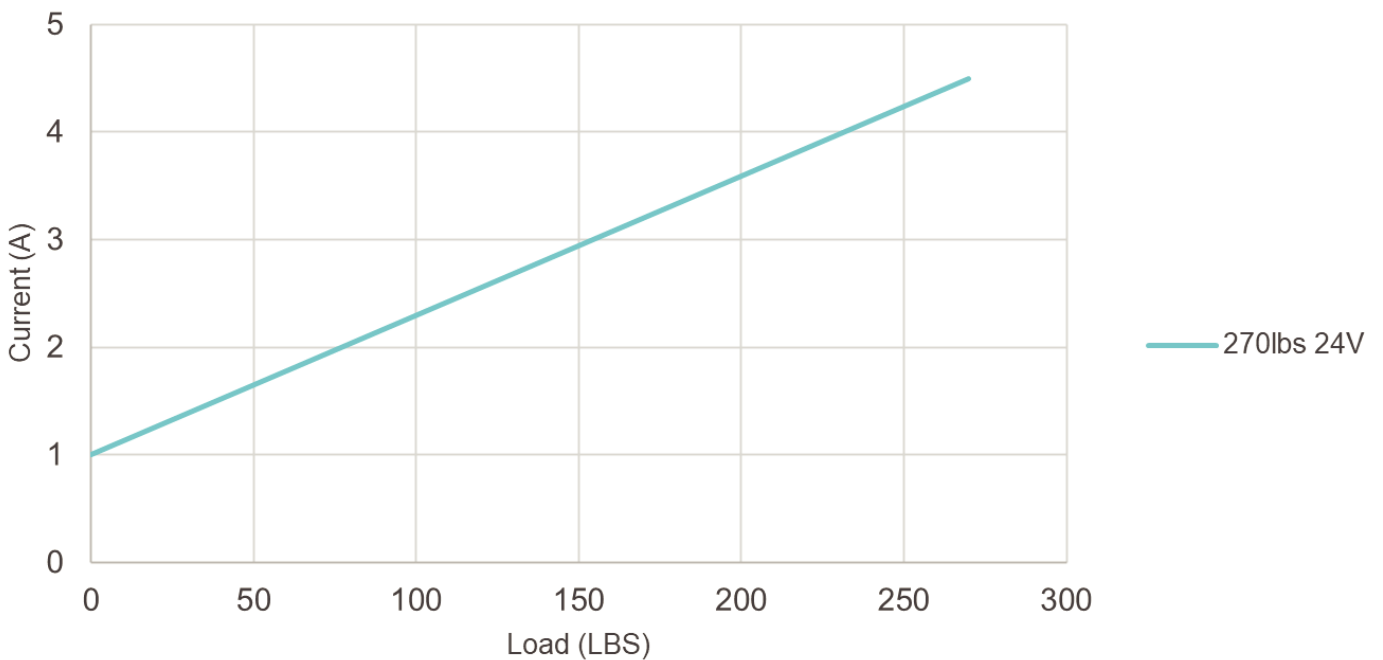
B (Fully Extended) = Stroke Length\*1.5 + 11.57"

# Characteristics

## Speed vs. Load: PA-TS1 Linear Actuator

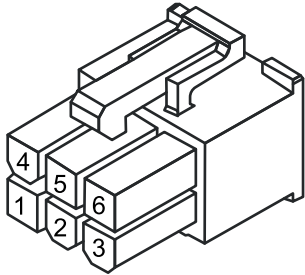


## Current vs. Load: PA-TS1 Linear Actuator



# 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 1 Signal	
Hall Effect 2 Signal		Hall Effect 2 Signal	

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