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LINEAR ACTUATORS

CHARACTERISTICS

TECHNICAL DIAGRAMS

PERFORMANCE CURVES

3D MODEL

LEAD SCREWS & NUTS

LINEAR RAILS, GUIDES & SPLINES

24 HR SHIPMENT - Selection of Linear Actuator Prototypes



DRIVES

57000 SERIES SIZE 23 STEPPER MOTOR LINEAR ACTUATORS

ROTARY MOTORS

The Haydon™ Size 23 stepper motor linear actuator is available in captive, non-captive, and external linear options. It incorporates the same high performance and durable patent pending design as the size 17, however, it's designed for applications that require forces up to 200 pounds. The 57000 Series is available in a wide variety of resolutions — from 0.0003125" (.0079375 mm) per step to 0.002" (.0508 mm) per step. In addition to our standard configurations, HaydonKerk Motion Solutions can custom design this stepper motor linear actuator to meet your specific application requirements.

SEALED SWITCHES

Standard Lubrication Options - Grease, No Grease, TFE Coating

Part Number Selection Guide

PITTMAN BRUSH AND BRUSHLESS DC MOTORS

RESOURCES

HAYDON KERK EXPRESS - BUY NOW

» Technical Drawing **Download 2D/3D Model**

Captive

Non-Captive



» Technical Drawing **Download 2D/3D Model**

» Technical Drawing

Download 2D/3D Model

External

PART NUMBER CONSTRUCTION

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RELATED COMPANIES

Email









SERIES 57000 SIZE 23 SALIENT CHARACTERISTICS (Size 23: 57mm (2.3") Hybrid Linear Actuator 1.8 degree step angle)							
Part No.	Captive	57H4(X)-V			57H6(X)-V		
	Non-Captive	57F4(X)-V			57F6(X)-V		
	External Lin.	E57H4(X)-V			E57H6(X)-V		
Wiring		Bipolar			Unipolar**		
Operating voltage		3.25 VDC	5 VDC	12 VDC	5 VDC	12 VDC	
Current/phase		2 A	1.3 A	0.54 A	1.3 A	0.54 A	
Resistance/phase		1.63 Ω	3.85 Ω	22.2 Ω	3.85 Ω	22.2 Ω	
Inductance/phase		3.5 mH	10.5 mH	58 mH	5.3 mH	23.6 mH	
Power consumption		13 W					
Rotor i	nertia	166 gcm2					
Temperature rise		135°F (75°C) Rise					
Weight		18 oz (511 g)					
Insulation resistance		20 ΜΩ					

Linear Tra Screw Ø .375	Order Code I.D.	
inches	mm	
0.0003125	0.0079*	Α
0.0004167	0.0105*	S
0.0005	0.0127	3
0.0008333	0.0211*	Т
0.001	0.0254	1
0.002	0.0508	2

^{*}Values truncated

Standard motors are Class B rated for maximum temperature of 130°C.

Special drive considerations may be necessary when leaving shaft fully extended or fully retracted.

SALIENT CHARACTERISTICS - SERIES 57000 SIZE 23 HYBRID STEPPER MOTOR LINEAR ACTUATOR: (0.9° STEP ANGLE)

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^{**}Unipolar drive gives approximately 30% less thrust than bipolar drive

SERIES 57000 HYBRID LINEAR ACTUATOR (SIZE 23: 57mm (2.3") HYBRID LINEAR ACTUATOR 0.9 degree step angle)					` '	
Part No.	Captive	57K4(X)-V		57K6(X)-V		
	Non-Captive	57J4(X)-V			57J6(X)-V	
	External Lin.	E57K4(X)-V		E57K6(X)-V		
Wiring		Bipolar			Unipolar**	
Operating voltage		3.25 VDC	5 VDC	12 VDC	5 VDC	12 VDC
Current/phase		2 A	1.3 A	.54 A	1.3 A	0.54 A
Resistance/phase		1.63 Ω	3.85 Ω	22.2 Ω	3.85 Ω	22.2 Ω
Inductance/phase		4.2 mH	13 mH	68 mH	6 mH	27 mH
Power consumption		13 W				
Rotor inertia		166 gcm2				
Temperature rise		135°F (75°C) Rise				
Weight		18 oz (511 g)				
Insulation resistance		20 ΜΩ				

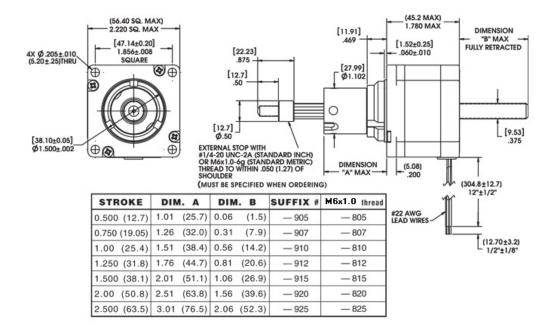
Linear Travel Ø .375 (9	Order Code I.D.	
inches	mm	
0.000125	0.0031*	7
0.00015625	0.003969	Р
0.00020833	0.00529166	Х
0.00025	0.00635	9
0.0004167	0.01058418	s
0.0005	0.0127	3
0.001	0.0254	1

^{*}Values truncated

Standard motors are Class B rated for maximum temperature of 130°C.

Special drive considerations may be necessary when leaving shaft fully extended or fully retracted.

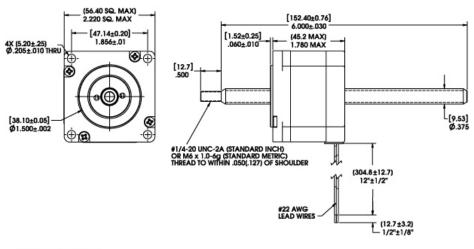
DIMENSIONAL DRAWING - 57000 SERIES SIZE 23 CAPTIVE STEPPER MOTOR LINEAR ACTUATOR



DIMENSIONAL DRAWING - 57000 SERIES SIZE 23 NON-CAPTIVE STEPPER MOTOR LINEAR ACTUATOR

^{**}Unipolar drive gives approximately 30% less thrust than bipolar drive.

Size 23 Series 57000 Non-Captive Linear Actuator

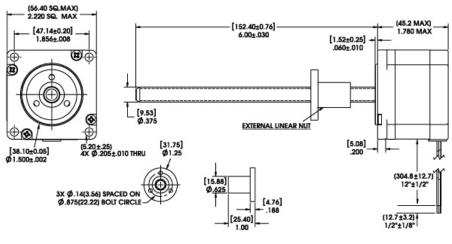


www.HaydonKerk.com

STANDARD SCREW LENGTH AVAILABLE - Up To 18" (457mm)

DIMENSIONAL DRAWING - 57000 SERIES SIZE 23 EXTERNAL STEPPER MOTOR LINEAR ACTUATOR

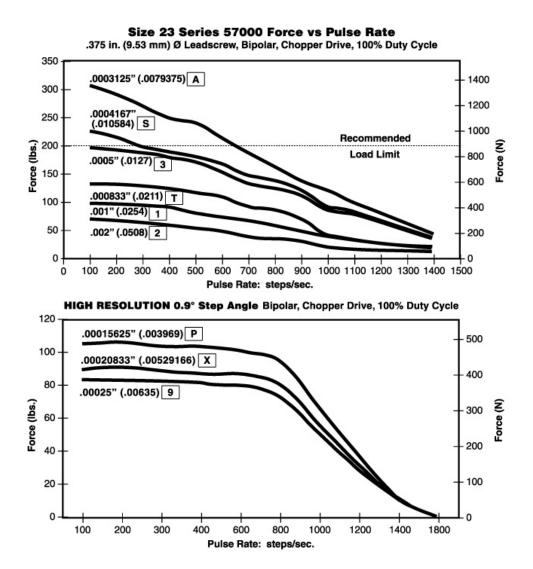
Size 23 Series 57000 External Linear Actuator



www.HaydonKerk.com

STANDARD SCREW LENGTH AVAILABLE - Up To 12" (305mm)

PERFORMANCE CURVES - 57000 SERIES SIZE 23 STEPPER MOTOR LINEAR ACTUATOR - FORCE VS. PULSE RATE



PERFORMANCE CURVES - 57000 SERIES SIZE 23 LINEAR ACTUATOR - FORCE VS. LINEAR VELOCITY

