

PRODUCT DATASHEET

ES-LA-C00-S013-V001

Precision Linear Motion Assembly

Micro Servo Electric Cylinder | Electric Actuator Platform 13 Series

Product Overview

Precision Linear Motion Assembly with mechanical Interface Joint bearing, speed Grade 2 and cable Diameter 2.3 mm.

Key Specifications

PARAMETER	VALUE	UNIT
Mechanical Interface	Joint bearing	
Speed Grade	2	
Cable Diameter	2.3	mm
Cable Length	200	mm
Electrical Interface	LVTTL serial interface	
Force Sensor Detection Range	-100 to +100	N
Force Sensor Resolution	1	N
Full-load Speed	8	mm/s
Ingress Protection Rating	IP40	

Technical Specifications

PARAMETER	SPECIFICATION	UNIT	NOTES
PERFORMANCE			
Full-load Speed	8	mm/s	Speed Class: 02
Maximum Push/Pull Force	50	N	Speed Class: 02
Maximum Self-locking Force	80	N	Speed Class: 02
Repeat Positioning Accuracy	± 0.1	mm	
Stall Push/Pull Force	80	N	Speed Class: 02
ELECTRICAL			
No-load Current	0.3	A	Speed Class: 02
Operating Voltage	$8 \pm 10\%$	V	
Peak Current	2	A	
Static Current	0.05	A	
Electrical Interface	LVTTTL serial interface		Model Code Token: D
MECHANICAL			
Cable Diameter	2.3	mm	

Technical Specifications

PARAMETER	SPECIFICATION	UNIT	NOTES
MECHANICAL			
Cable Length	200	mm	
Stroke	50	mm	
Weight	50	g	
INTERFACES			
Mechanical Interface	Joint bearing		Model Code Token: 4
ENVIRONMENTAL			
Operating Temperature	-10 to +60	°C	
Ingress Protection Rating	IP40		
ADDITIONAL SPECIFICATIONS			
Speed Grade	2		Model Code Token: 02
Force Sensor Resolution	1	N	
No-load Speed	17	mm/s	Speed Class: 02
Force Sensor Detection Range	-100 to +100	N	

Cable Dimension / mm	
Diameter	2.3
Length	200

2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 1	Extended-state overall length	Overall length in extended state = 170.70 mm
	Extended-state body length	Body/reference length in extended state = 167.20 mm
	State label	Extended state view
	Local step height	Local step height = 0.80 mm
	Left shaft axial length	Left shaft axial length = 50.50 mm
	Left shaft diameter	Diameter = 5.00 mm
	Left end outside height	Outside height/diameter = 12.00 mm
	Middle local height	Middle local height = 5.40 mm
	Local step height	Local step height = 0.40 mm
Mechanical View 2	Top joint hole diameter	Diameter 4.00
	Left mounting interface height dimension	2.30
	Right overall height dimension	15.20
	Bottom mounting width	10.80
Mechanical View 3	Mounting threaded hole specification and depth	M3 threaded hole, depth 3.00

2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 4	Retracted state overall length	Overall length in retracted state = 120.70 mm
	Retracted state body/reference length	Length = 117.20 mm
	Left end axial offset	Axial offset = 0.50 mm
	State label	Retracted state
	Right end shaft diameter with tolerance	Diameter = $\Phi 12$ mm, tolerance +0/-0.10 mm
	Right end local length with tolerance	Length = 3 mm, tolerance +0/-0.20 mm
	Left end diameter numeric value	Diameter numeric value = 8.40 mm
	Right end local diameter or width	Local diameter/width = 5.50 mm
	Left end outside diameter or height	Outside diameter/height = 9.60 mm

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01 Specifications are subject to change without notice. Verify the current product configuration before final design release.

02 2D drawings, CAD files and integration documentation are controlled documents and are supplied separately on request.