

PRODUCT DATASHEET

ES-LA-C00-S003-V001

Precision Linear Motion Assembly

Micro Servo Electric Cylinder | Electric Actuator Platform 03 Series

Product Overview

Precision Linear Motion Assembly with communication Interface RS485, mechanical Interface Joint bearing and cable Diameter 2.3 mm.

Key Specifications

PARAMETER	VALUE	UNIT
Communication Interface	RS485	
Mechanical Interface	Joint bearing	
Cable Diameter	2.3	mm
Cable Length	400	mm
Force Sensor Detection Range	-200 to +200	N
Force Sensor Resolution	1	N
Full-load Speed	16	mm/s
Ingress Protection Rating	IP40	
Maximum Push/Pull Force	120	N

Technical Specifications

PARAMETER	SPECIFICATION	UNIT
PERFORMANCE		
Full-load Speed	16	mm/s
Maximum Push/Pull Force	120	N
Maximum Self-locking Force	40	N
Repeat Positioning Accuracy	± 0.01	mm
Stall Push/Pull Force	150	N
ELECTRICAL		
Communication Interface	RS485	
No-load Current	0.6	A
Peak Current	2	A
Static Current	0.065	A
Operating Voltage	$12 \pm 10\%$	V
MECHANICAL		
Cable Diameter	2.3	mm

Technical Specifications

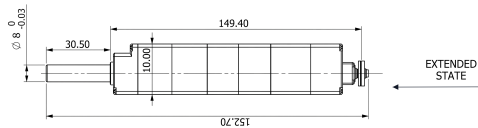
PARAMETER	SPECIFICATION	UNIT
MECHANICAL		
Cable Length	400	mm
Stroke	30	mm
Weight	112	g
INTERFACES		
Mechanical Interface	Joint bearing	
ENVIRONMENTAL		
Operating Temperature	-10 to +60	°C
SAFETY		
Ingress Protection Rating	IP40	
ADDITIONAL SPECIFICATIONS		
Force Sensor Resolution	1	N
No-load Speed	32	mm/s
Protection Rating	IP40	
Force Sensor Detection Range	-200 to +200	N

Dimensional & Integration Overview

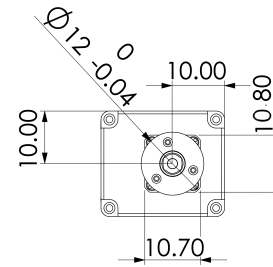
Mechanical Overview

PARAMETER	VALUE	UNIT
Cable Diameter	2.3	mm
Cable Length	400	mm
Stroke	30	mm
Weight	112	g

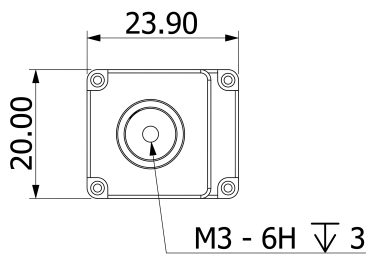
Dimensional Drawings



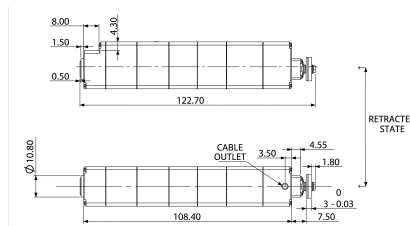
Mechanical View 1



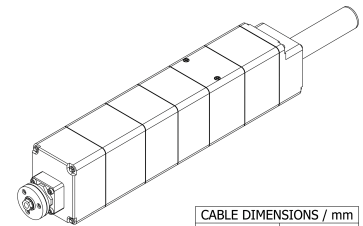
Mechanical View 2



Mechanical View 3



Mechanical View 4



Mechanical View 5

2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 1	Shaft diameter with tolerance	Diameter 8 mm, upper deviation 0 mm, lower deviation -0.03 mm
	Upper length dimension	149.40 mm
	Left shaft extension length	30.50 mm
	Body height dimension	10.00 mm
	Extended state label	Extended state
	Overall extended length	152.70 mm
Mechanical View 2	Central hole diameter tolerance	Diameter 12 with upper deviation 0 and lower deviation -0.04
	Upper horizontal mounting spacing	10.00
	Right vertical mounting spacing	10.80
	Left vertical mounting spacing	10.00
	Lower horizontal mounting spacing	10.70
Mechanical View 3	Mounting face width	Width 23.90 mm
	Mounting face height	Height 20.00 mm
	Mounting threaded hole specification	M3 internal thread, tolerance class 6H, depth 3 mm

2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 4	Retracted state upper view length	Length 122.70 mm
	Lower view body length	Length 108.40 mm
	Main body diameter	Diameter 10.80 mm
	End offset dimension	Offset 8.00 mm
	Top local height	Height 4.30 mm
	Left end step dimension	Step 1.50 mm
	Left end small step dimension	Step 0.50 mm
	End feature dimension with tolerance	3 mm with tolerance +0/-0.03 mm
	Retracted state label	Retracted state view label
Mechanical View 5	Cable dimension table unit	Cable dimensions are specified in millimeters

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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.