

PRODUCT DATASHEET

ES-LA-C00-S002-V001

Precision Linear Motion Assembly

Micro Servo Electric Cylinder | Electric Actuator Platform 02 Series

Product Overview

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

Key Specifications

PARAMETER	VALUE	UNIT
Communication Interface	RS485	
Mechanical Interface	Octagonal interface	
Cable Diameter	2.3	mm
Cable Length	400	mm
Full-load Speed	16	mm/s
Ingress Protection Rating	IP40	
Maximum Push/Pull Force	120	N
Maximum Self-locking Force	40	N
No-load Current	0.6	A

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	0.05	A
Operating Voltage	$12 \pm 10\%$	V

Technical Specifications

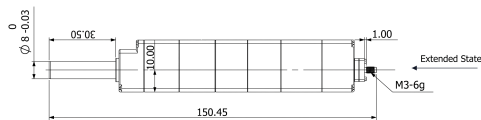
PARAMETER	SPECIFICATION	UNIT
MECHANICAL		
Cable Diameter	2.3	mm
Cable Length	400	mm
Stroke	30	mm
Weight	113	g
INTERFACES		
Mechanical Interface	Octagonal interface	
ENVIRONMENTAL		
Operating Temperature	-10 to +60	°C
SAFETY		
Ingress Protection Rating	IP40	
ADDITIONAL SPECIFICATIONS		
No-load Speed	32	mm/s
Protection Rating	IP40	

Dimensional & Integration Overview

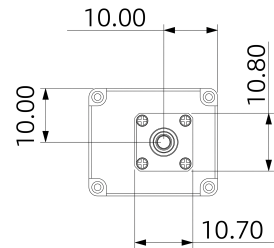
Mechanical Overview

PARAMETER	VALUE	UNIT
Cable Diameter	2.3	mm
Cable Length	400	mm
Stroke	30	mm
Weight	113	g

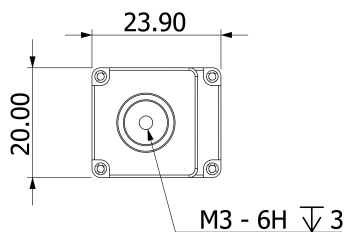
Dimensional Drawings



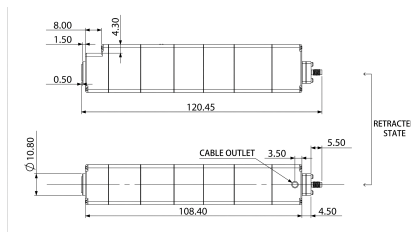
Mechanical View 1



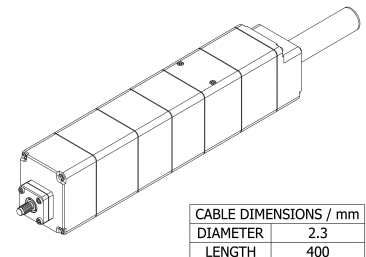
Mechanical View 2



Mechanical View 3



Mechanical View 4



Mechanical View 5

CABLE DIMENSIONS / mm	
DIAMETER	2.3
LENGTH	400

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
	Shaft protrusion length	30.50 mm
	Body cross-section height or width	10.00 mm
	State label	Extended state
	Overall length in extended state	150.45 mm
Mechanical View 2	Upper horizontal mounting/interface spacing	10.00 mm
	Right vertical mounting/interface spacing	10.80 mm
	Left vertical mounting/interface spacing	10.00 mm
	Lower horizontal mounting/interface spacing	10.70 mm
Mechanical View 3	Mounting face horizontal dimension	23.90 mm
	Mounting face vertical dimension	20.00 mm
	Mounting threaded hole specification and depth	M3-6H threaded hole, depth 3 mm

2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 4	Retracted view body-to-extended-end length	Length 120.45 mm
	Lower view body length	Length 108.40 mm
	Body diameter or width	Diameter 10.80 mm
	Left-end mounting offset	Offset 8.00 mm
	Left-end small step offset	Offset 1.50 mm
	Left-end thin step offset	Offset 0.50 mm
	Upper step height difference	Height difference 4.30 mm
	Retracted state label	Retracted state

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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.