

PRODUCT DATASHEET

ES-LA-C00-S005-V001

Precision Linear Motion Assembly

Micro Servo Electric Cylinder | Electric Actuator Platform 05 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	5	mm/s
Ingress Protection Rating	IP40	
Maximum Push/Pull Force	150	N

Technical Specifications

PARAMETER	SPECIFICATION	UNIT
PERFORMANCE		
Full-load Speed	5	mm/s
Maximum Push/Pull Force	150	N
Maximum Self-locking Force	70	N
Repeat Positioning Accuracy	± 0.01	mm
Stall Push/Pull Force	200	N
ELECTRICAL		
Communication Interface	RS485	
No-load Current	0.4	A
Peak Current	2	A
Static Current	0.065	A
Operating Voltage	$12 \pm 10\%$	V
MECHANICAL		
Cable Diameter	2.3	mm

Technical Specifications

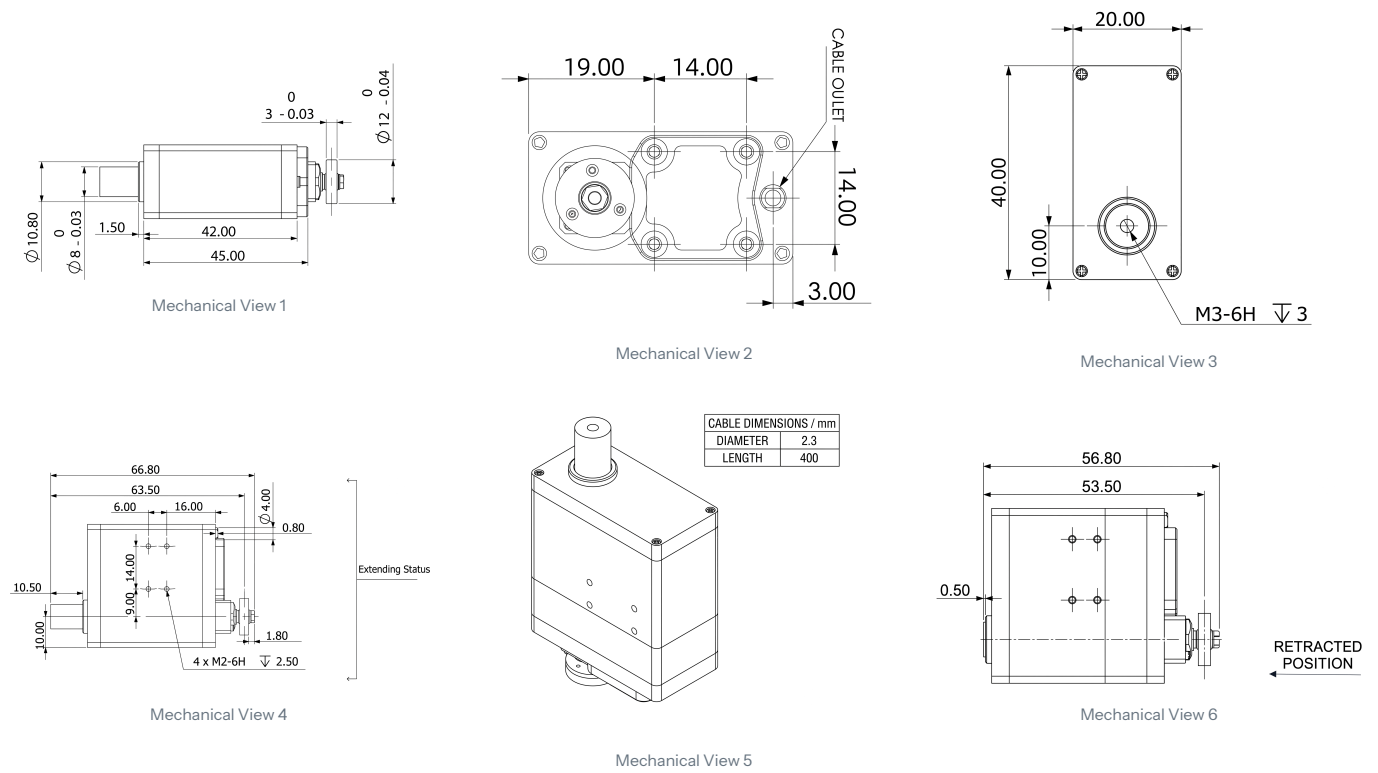
PARAMETER	SPECIFICATION	UNIT
MECHANICAL		
Cable Length	400	mm
Stroke	10	mm
Weight	93	g
INTERFACES		
Mechanical Interface	Joint bearing	
ENVIRONMENTAL		
Operating Temperature	-10 to +60	°C
SAFETY		
Ingress Protection Rating	IP40	
ADDITIONAL SPECIFICATIONS		
Force Sensor Resolution	1	N
No-load Speed	8	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	10	mm
Weight	93	g

Dimensional Drawings



2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 1	Right end shaft diameter	Diameter 12 mm, upper deviation 0 mm, lower deviation -0.04 mm
	Left end shaft diameter	Diameter 8 mm, upper deviation 0 mm, lower deviation -0.03 mm
	Left end outer diameter	Diameter 10.80 mm
	Step axial length	Length 1.50 mm
	Main body length	Length 42.00 mm
	Overall length	Length 45.00 mm
Mechanical View 2	Upper horizontal mounting spacing 1	19.00 mm
	Upper horizontal mounting spacing 2	14.00 mm
	Vertical mounting spacing	
Mechanical View 3	Mounting face width	Width 20.00 mm
	Mounting face height	Height 40.00 mm
	Distance from bottom edge to central hole center	Bottom edge to central hole center distance 10.00 mm
	Threaded hole specification and depth	M3-6H threaded hole, depth 3 mm

2D Drawing Dimensions & Callouts

VIEW	FIELD	VALUE
Mechanical View 4	Overall length in extending status	66.80 mm
	Body-to-end length in extending status	63.50 mm
	Right-side cylindrical feature diameter	Diameter 4.00 mm
	Horizontal spacing of mounting hole columns	16.00 mm
	Left reference to mounting hole column distance	6.00 mm
	Vertical spacing between upper and lower mounting holes	14.00 mm
	Lower mounting hole row to bottom reference distance	9.00 mm
	Status label	Extending status
	Left shaft protrusion length	10.50 mm
	Left shaft vertical size	10.00 mm
	Threaded hole specification and depth	4 x M2-6H threaded holes, depth 2.50 mm
Mechanical View 6	Retracted-state overall length	Overall length in retracted position: 56.80 mm
	Retracted-state secondary longitudinal length	Secondary longitudinal length in retracted position: 53.50 mm
	Left-end offset or clearance dimension	Left-end offset/clearance: 0.50 mm
	View state label	View/state: retracted position

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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.