

▶ TABLE OF STANDARD PROPERTIES OF USE AND MEASUREMENT

The properties defined in the table below, are set up according to the technical conditions of use and measurement. These properties are warranted within their variation range and in compliance with the standard technical conditions of use.


NON-CONTRACTUAL PICTURE

PROPERTIES	STANDARD TECHNICAL CONDITIONS	UNIT	NOMINAL VALUES	MIN. VALUES	MAX. VALUES
Notes			Preliminary data		
Base			APA35XS		
Mastered motions			TX		
Max. No-load displacement		mm	10.00	9.00	11.00
Holding force without consumption		N	3.00	2.01	3.99
Max speed	Unloaded, with adapted driver	mm/s	30.00	18.00	39.00
Max step size	Unloaded, with adapted driver	µm	37.50	22.50	48.75
Max driving force		N	1.00	0.80	1.20
Typical max loading		gr	70.00	49.00	77.00
Typical working frequency		Hz	800.00	720.00	880.00
Typical stepping mode resolution		µm	1.00	0.90	1.10
Deformation stroke	Quasistatic excitation, blocked-free	µm	54.51	49.06	70.86
Linear resolution		nm	0.55	0.33	0.71
Stiffness	Harmonic excitation, blocked-free, on the admittance curve	N/µm	0.50	0.40	0.54
Capacitance		µF	0.25	0.23	0.33
Voltage range		V	-20 ... 150		
Out of plane		µm	6.00	5	7
Z rotation		µrad	0.30	0	0
XY rotation		µrad	0.30	0	0
Typical Lifetime	Unloaded, 2mm stroke, full speed, 50% duty-cycle	cycles	1000000	700000	1400000
Sensors option			MAG		
Sensor resolution	Incremental magnetic sensor	µm	2.00		
Height		mm	15.00	13.50	16.50
Width		mm	30.00	27.00	33.00
Length		mm	30.00	27.00	33.00
Mass		g	30.00	27.00	33.00
Unloaded resonance frequency (in the actuation's direction)	Harmonic excitation, blocked-free, on the admittance curve	Hz	910.00	773.50	1001.00
Mechanical interfaces (payload)			4 x M2 deep. 6		
Mechanical interfaces (frame)			4 x diam 2.4 holes		
Electrical interfaces			8 pins ERNI connector		

➤ LSPA35uXS CONFIGURATION

