www.cedrat-technologies.com | actuator@cedrat-tec.com

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			APA40SM		
Mastered motions			TX		
Max. No-load displacement		mm	20.00	18.00	22.00
Holding force without cunsomption		N	20.00	13.40	26.60
Max speed	Unloaded, with adapted driver	mm/s	10.00	6.00	13.00
Max step size	Unloaded, with adapted driver	µm	20.00	12.00	26.00
Max driving force		N	10.00	8.00	12.00
Typical max loading		gr	400.00	280.00	440.00
Typical working frequency		Hz	500.00	450.00	550.00
Typical stepping mode resolution		µm	1.00	0.90	1.10
Deformation stroke	Quasistatic excitation, blocked-free	µm	44.66	40.19	58.06
Linear resolution		nm	0.45	0.27	0.58
Stiffness	Harmonic excitation, blocked-free, on the admittance curve	N/µm	3.84	3.07	4.22
Capacitance		µF	1.55	1.40	2.02
Voltage range		V	-20 … 150		
Out of plane		µm	10.00	8	12
Z rotation		µrad	0.50	0	1
X Y rotation		µrad	0.50	0	1
Typical Lifetime	Unloaded, 2mm stroke, full speed, 50% duty-cycle	cycles	1000000.00	700000	1400000
Sensors option			MAG		
Sensor resolution	Incremental magnetic sensor		2.00		
Heigth		mm	20.00	18.00	22.00
Width		mm	50.00	45.00	55.00
Length		mm	50.00	45.00	55.00
Mass		g	90.00	81.00	99.00
Unloaded resonance frequency (in the actuation's direction)	Harmonic excitation, blocked-free, on the admittance curve	Hz	1350.00	1147.50	1485.00
Mechanical interfaces (payload)			"4 x M2 deep. 4 + 4 x M3 deep. 4"		
Mechanical interfaces (frame)			4 x diam 3.4 holes		
Electrical interfaces			8 pins ERNI connector		

www.cedrat-technologies.com | actuator@cedrat-tec.com

LSPS40SM CONFIGURATION