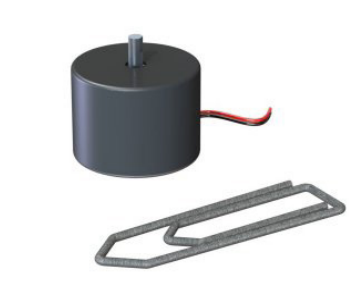


## ▶ TABLE OF STANDARD PROPERTIES OF USE AND MEASUREMENT

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.



PROPERTIES	STANDARD TECHNICAL CONDITIONS	UNIT	NOMINAL VALUES	MIN. VALUES	MAX. VALUES
Notes			Preliminary data		
Base			APA30uXS		
Mastered motions			RZ		
Max. No-load displacement		rad	∞		
Holding torque without consumption		Nmm	4.00	2.68	5.32
Max speed	Unloaded, with adapted driver	rpm	65.00	39.00	84.50
Max step size	Unloaded, with adapted driver	mrad	6.81	4.08	8.85
Max driving torque		Nmm	1.33	1.07	1.60
Typical max loading		gr	15.00	10.50	16.50
Typical working frequency		Hz	1000.00	900.00	1100.00
Typical stepping mode resolution		mrad	0.10	0.09	0.11
Capacitance		μF	0.05	0.05	0.07
Voltage range		V	-20 ... 150		
Typical Lifetime	Unloaded, 2mm stroke, full speed, 50% duty-cycle	cycles	1000000.00	700000	1400000
Height		mm	10.00	9.00	11.00
Diameter		mm	12.00	10.80	13.20
Mass		g	3.00	2.70	3.30
Unloaded resonance frequency (in the actuation's direction)	Harmonic excitation, blocked-free, on the admittance curve	Hz	1362.92	1158.48	1499.21
Mechanical interfaces (payload)			2mm diameter x 4mm long with 1mm width flatted shaft		
Mechanical interfaces (frame)			4 diam 1.8 holes		
Electrical interfaces			2 PTFE insulated AWG30 wires 50mm long with Ø 1 banana plug		