

Drive train specifications

Lead screw

LSA1 can be fitted with different spring loaded lead screws

Parameter	Pitch 0.635mm	Pitch 1.27mm	Pitch 6.35mm	Unit
Push pull force	>50	>40	TBD	N
Backlash	5	TBD	TBD	μm

Motor

Parameter	Value	Unit
Size	NEMA11	
Step angle	1.8 \pm 5%	deg
Phase count	2	
Rotor inertia	12	$\text{g}\cdot\text{cm}^2$
Mass	180	g
Rated voltage	4.5	V
Rated current	0.75	A
Resistance per phase	6.7 \pm 10%	Ω
Inductance per phase	3 \pm 20%	mH
Holding torque	95	$\text{mN}\cdot\text{m}$

Revision #9

Created 31 August 2020 06:58:44 by Saulius

Updated 6 February 2021 13:44:00 by Saulius