Nippon Pulse Your Partner in Motion Control

SX060 Linear Shaft Motor

	SX0	SX060D		SX060T		SX060Q			
Electrical Specs	SX060D	SX060D-X0	SX060T	SX060T-X0	SX060Q	SX060Q-DC	SX060Q-X0	SX060Q- DC-X0	
Continuous Force ¹	1.0N (0.23lbs)	1.3N (0.28lbs)	1.5N (0.35lbs)	1.9N (0.43lbs)	2.1N (0).46lbs)	2.5N (0.57lbs)	2.5N (0.56lbs)	
Continuous Current ¹		0.51Arms 0.52Arms				1.0Arms	0.52Arms	1.0Arms	
Acceleration Force ²	4.1N (0.92lbs)	5.1N (1.14lbs)	6.2N (1.38lbs)	7.6N (1.71lbs)	8.3N (1.85lbs)	8.2N (1.84lbs)	10.2N (2.29lbs)	10.1N (2.28lbs)	
Acceleration Current ²		·	2.1Arms			4.1Arms	2.1Arms	4.1Arms	
Force Constant (K _f)	2.0N/Arms (0.45lbs/amp)	2.5N/Arms (0.55lbs/amp)	3.0N/Arms (0.67lbs/amp)	3.7N/Arms (0.83lbs/amp)	4.0N/Arms (0.90lbs/amp)	2.0N/Arms (0.45lbs/amp)	4.9N/Arms (1.11lbs/amp)	2.5N/Arms (0.55lbs/amp)	
Back EMF (K _e)	0.67V/m/s (26.3V/in/s)	0.82V/m/s (32.3V/in/s)	1.0V/m/s (39.4V/in/s)	1.2V/m/s (48.5V/in/s)	1.3V/m/s (52.6V/in/s)	0.67V/m/s (26.3V/in/s)	1.6V/m/s (64.69V/in/s)	0.82V/m/s (32.3V/in/s)	
Resistance 25°C ³	6.9Ω		10Ω		13Ω	3.5Ω	13Ω	3.5Ω	
Inductance ³	0.73mH		1.1mH		1.5mH	0.37mH	1.5mH	0.37mH	
Magnetic Pitch (North-North)	24mm (0.94 in)								

Is this the proper Linear Shaft Motor for your application? Use our SMART sizing program to assist in your decision.

This motor can be customized to fit your application demands; contact your application engineer for more information.

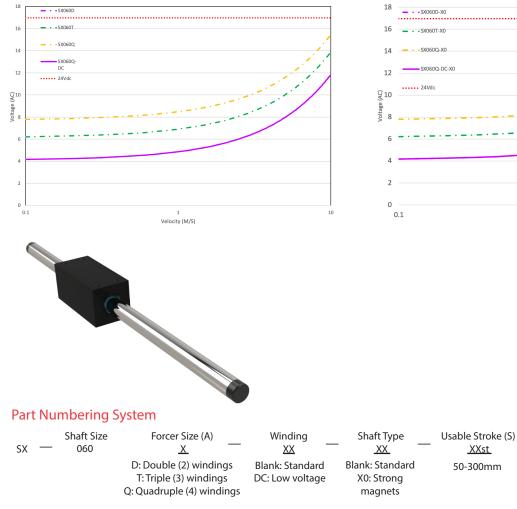
¹ Based on a temp rise of coil surface of 110°K over 25°C ambient temperature stalled forcer, and no external cooling or heat sinking.

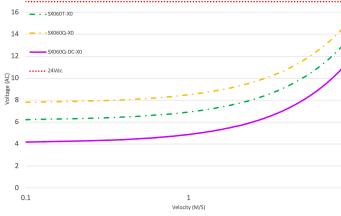
² Can be maintained for a maximum of 40 seconds. Higher forces and current possible for short periods of time, contact Nippon Pulse for more information.

³ All winding parameters listed are measured line-to-line (phase-to-phase).

Bus Voltage - standard windings

Bus Voltage - strong magnets





Options

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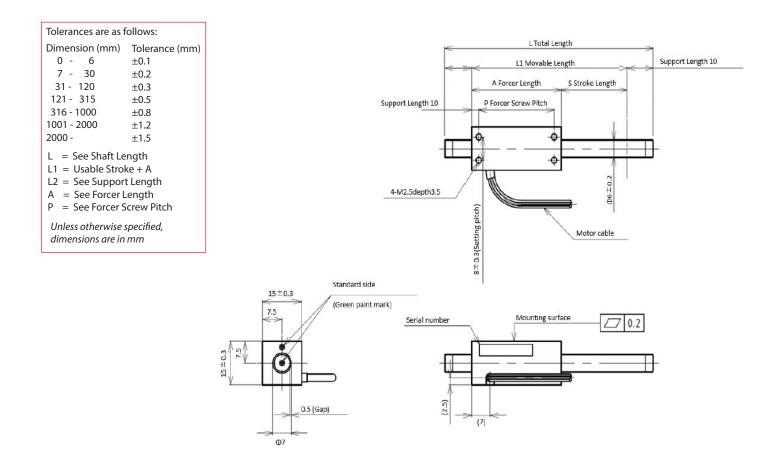
Blank: Standard

FO: Forcer Only

SO: Shaft Only

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	SXC)60D	SXC)60T	SX060Q				
Forcer Specs	SX060D	SX060D-X0	SX060T	SX060T-X0	SX060Q	SX060Q-X0			
Forcer Length (A)	34mm (1.34in)		46mm (1.81in)		58mm (2.28in)				
Forcer Width	15mm (0.59in)								
Forcer Screw Pitch (P)	28.6mm (1.13in)		40.6mm (1.60in)		52.6mm (2.07in)				
Forcer Weight	0.024kg (0.05lbs)		0.031kg (0.07lbs)		0.038kg (0.08lbs)				
Gap	0.50mm (0.02in)								
Screw	M2.5								



Note: Metric units guaranteed. Imperial (United States customary) units are calculated.