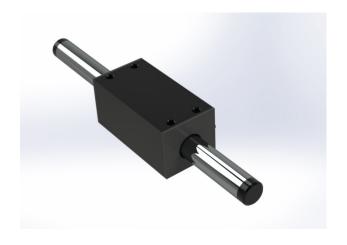


	SX080D-X0 SX080T-X0		0T-X0	SX080Q-X0	
Electrical Specs	SX080D-X0	SX080T-X0	SX080T-DC-X0	SX080Q-X0	SX080Q-DC-X0
Continuous Force <sup>1</sup>	2.5N (0.56lbs) 3.8N (0.85lbs)		).85lbs)	4.9N (1.10lbs)	
Continuous Current <sup>1</sup>	0.84Arms		2.5Arms	0.84Arms	1.7Arms
Acceleration Force <sup>2</sup>	10N (2.25lbs)	ON (2.25lbs) 15N (3.38lbs)		20N (4.41lbs)	
Acceleration Current <sup>2</sup>	3.4Arms		10Arms	3.4Arms	6.7Arms
Force Constant (K <sub>f</sub> )	3.0N/Arms	4.5N/Arms	1.5N/Arms	5.8N/Arms	2.9N/Arms
Back EMF (K <sub>e</sub> )	1.0V/m/s (39.1V/in/s)	1.5V/m/s (58.8V/in/s)	0.5V/m/s (19.6V/in/s)	1.9V/m/s (76.6V/in/s)	1.0V/m/s (38.3V/in/s)
Resistance 25°C³	4.7Ω	6.8Ω	0.8Ω	9Ω	2.3Ω
Inductance <sup>3</sup>	0.7mH	1.0mH	0.1mH	1.3mH	0.3mH
Magnetic Pitch (North-North)	30mm				

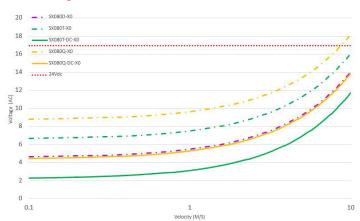
Is this the proper Linear Shaft Motor for your application? Use our SMART sizing program to assist in your decision.

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

- 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.
- <sup>2</sup> 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.
- <sup>3</sup> All winding parameters listed are measured line-to-line (phase-to-phase).



## **Bus Voltage**



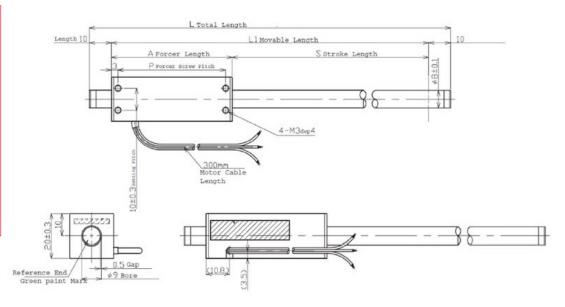
## Part Numbering System



Forcer Specs	SX080D-X0	SX080T-X0	SX080T-DC-X0	SX080Q-X0	SX080Q-DC-X0
Forcer Length (A)	40mm (1.57in)	55mm (2.17in)		70mm (2.76in)	
Forcer Width	20mm (0.79in)				
Forcer Screw Pitch (P)	34mm (1.34in)	49mm (1.93in) 64mm (2.25in)		(2.25in)	
Forcer Weight	0.050kg (0.110lbs)	0.054kg (	0.119lbs)	0.072kg (0.159lbs)	
Gap	0.50mm (0.02in)				
Screw	M3				

Tolerances are as follows:					
Dimension (mm)	Tolerance (mm)				
0 - 6	±0.1				
7 - 30	±0.2				
31 - 120	±0.3				
121 - 315	±0.5				
316 - 1000	±0.8				
1001 - 2000	±1.2				
2000 -	±1.5				
L = See Shaft Length					
L1 = Usable Stroke + A					
L2 = See Support Length					
A = See Forcer Length					
P = See Forcer Screw Pitch					
Unless otherwise specified,					

dimensions are in mm



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