

Electrical Specs	S040D	S040T	S040Q	S040X
Continuous Force ¹	0.29N (0.07lbs)	0.45N (0.10lbs)	0.58N (0.13lbs)	0.94 (0.22lbs)
Continuous Current ¹	0.3Arms			0.6Arms
Acceleration Force ²	1.2N (0.27lbs)	1.8N (0.40lbs)	2.3N (0.52lbs)	3.8N (0.86lbs)
Acceleration Current ²	1.1Arms			2.2Arms
Force Constant (K_f)	1.0N/amp (0.23lbs/amp)	1.6N/amp (0.37lbs/amp)	2.1N/amp (0.47lbs/amp)	1.7N/amp (0.39lbs/amp)
Back EMF (K_e)	0.4V/m/s (0.01V/in/s)	0.5V/m/s (0.01V/in/s)	0.7V/m/s (0.02V/in/s)	0.6V/m/s (0.02V/in/s)
Resistance 25°C, ³	11.2Ω	16.8Ω	22.4Ω	11.2Ω
Inductance ³	0.5mH	0.7mH	1.0mH	0.5mH
Electric Time Constant	0.045ms	0.042ms	0.044ms	0.045ms
Fundamental Motor Constant (K_m)	0.31N√W	0.39N√W	0.44N√W	0.50N√W
Magnetic Pitch (North-North)	18mm (0.71in)			

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.

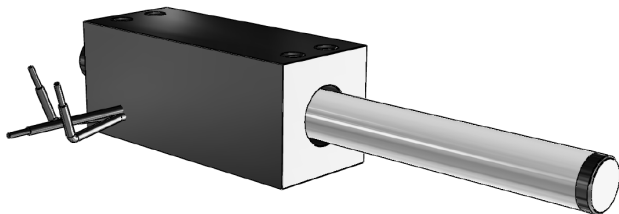
¹ Based on a temp rise of coil surface of 110°K over 25°C ambient temperature stalled forcer, and no external cooling or heat sinking.

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

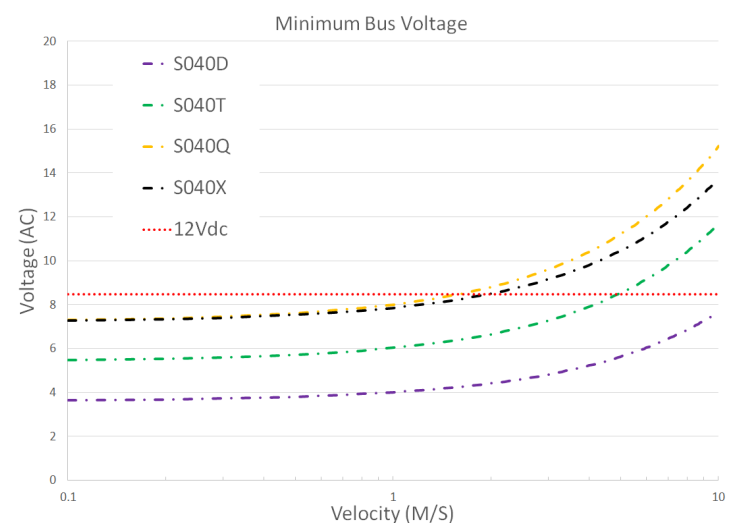
³ All winding parameters listed are measured line-to-line (phase-to-phase).

Thermal Specs	S040D	S040T	S040Q	S040X
Max Phase Temperature ⁴	135°C (275°F)			
Thermal Resistance (Coil) (K_v)	125.3°C/W (258°F/W)	83.5°C/W (183°F/W)	62.6°C/W (145°F/W)	31.3°C/W (72.5°F/W)

⁴The standard temperature difference between the coil and the forcer surface is 10°C.



Bus Voltage



Part Numbering System

S — Shaft Size 040 — Forcer Size (A) X — Usable Stroke (S) XXXXst — Options XX

D: Double (2) windings
T: Triple (3) windings
Q: Quadruple (4) windings

Blank: Standard
FO: Forcer Only
SO: Shaft Only

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