

N4SQ70 Series Brushed Servomotors

Model	Cont. Stall Torque oz-in (Nm)	Max. Peak Stall Torque oz-in (Nm)	Max. Recommended Speed RPM	Rated Power Watts	Motor Inertia oz-in-sec ² (Kg-cm ²)	Length "L" in. (mm)	Weight Lb. (Kg)
N4SQ70-04	75 (0.53)	150 (1.06)	4000	84	0.100 (0.706)	3.25 (82.6)	3.0 (1.36)
N4SQ70-08	130 (0.92)	375 (2.65)	4000	160	0.0200 (1.412)	4.25 (108.0)	4.0 (1.81)
N4SQ70-12	210 (1.48)	901 (6.36)	4000	210	0.0250 (1.766)	5.25 (133.4)	5.5 (2.49)
N4SQ70-16	260 (1.84)	1199 (8.47)	4000	260	0.0400 (2.825)	6.55 (166.4)	6.8 (3.08)

Typical Motor Characteristics These represent a sample of our motor offerings please contact Torkmotion for custom specifications available for OEM solutions (508-786-9928)

Symbol		Unit	Model			
			N4SQ70-04H	N4SQ70-08G	N4SQ70-12F	N4SQ70-16E
Ke	Back E.M.F	Volts/KRPM	13.5	20.6	24.0	25.4
Kt	Torque Constant	oz-in/Amp (mNm/Amp)	18.3 (129)	27.9 (196.7)	32.5 (229.2)	34.4 (242.6)
Rt	Terminal Resistance	Ohms	2.06	2.0	1.10	0.83
L	Inductance	mH	1.17	1.20	1.0	0.76
Rth	Thermal Resistance	Deg C/Watt	3.7	2.9	2.3	1.8
Vt	Voltage Terminal	V dc	48	72	90	90
n_o	No load Speed @ Vt	RPM	3556	3495	3750	3543
I_o	No load Current @ Vt	Amp	0.47	0.43	0.35	0.46
T_c	Cont. Torque	oz-in (Nm)	35 (0.25)	66 (0.47)	78 (0.55)	102 (0.72)
n_c	Speed @ Vt & Tc	RPM	3263	3265	3640	3446
I_c	Current @ Vt & Tc	Amp	2.39	2.80	2.75	3.43
P_o	Power Out @ Vt & Tc	Watts	84	160	210	260
T_p	Peak Torque	oz-in (Nm)	70 (0.49)	132 (0.93)	156 (1.1)	204 (1.4)
n_p	Speed @ Vt & Tp	RPM	2971	3035	3530	3349
I_p	Current @ Vt & Tp	Amp	4.3	5.2	5.2	6.4

