

N4SQ58 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) |
|-----------|----------------------------------|--------------------------------------|-------------------------------|----------------------|--|------------------------|--------------------|
| N4SQ58-04 | 50 (0.35) | 143 (1.01) | 4000 | 70 | 0.0060 (0.424) | 3.46 (87.9) | 2.0 (0.9) |
| N4SQ58-06 | 60 (0.42) | 187 (1.32) | 4000 | 85 | 0.0080 (0.565) | 3.96 (100.6) | 2.2 (1.0) |
| N4SQ58-08 | 75 (0.53) | 262 (1.85) | 4000 | 100 | 0.0100 (0.706) | 4.46 (113.3) | 2.6 (1.2) |
| N4SQ58-12 | 100 (0.71) | 375 (2.65) | 4000 | 132 | 0.0140 (0.989) | 5.46 (138.7) | 3.3 (1.5) |

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 | | | |
|----------------|----------------------|---------------------|------------|--------------|--------------|--------------|
| | | | N4SQ58-04G | N4SQ58-06H | N4SQ58-08G | N4SQ58-12F |
| Ke | Back E.M.F | Volts/KRPM | 6.0 | 11.2 | 11.8 | 13.4 |
| Kt | Torque Constant | oz-in/Amp (mNm/Amp) | 8.1 (57.3) | 15.2 (107.2) | 16.0 (112.7) | 18.1 (128.0) |
| Rt | Terminal Resistance | Ohms | 0.65 | 1.17 | 1.00 | 0.75 |
| L | Inductance | mH | 0.28 | 0.68 | 0.35 | 0.6 |
| Rth | Thermal Resistance | Deg C/Watt | 4.5 | 4.2 | 4.0 | 3.5 |
| Vt | Voltage Terminal | V dc | 24 | 48 | 48 | 48 |
| n _o | No load Speed @ Vt | RPM | 4000 | 4274 | 4068 | 3582 |
| I _o | No load Current @ Vt | Amp | 0.76 | 0.52 | 0.50 | 0.68 |
| T _c | Cont. Torque | oz-in (Nm) | 26 (0.18) | 28 (0.20) | 35 (0.25) | 52 (0.37) |
| n _c | Speed @ Vt & Tc | RPM | 3653 | 4093 | 3882 | 3428 |
| I _c | Current @ Vt & Tc | Amp | 3.96 | 2.37 | 2.7 | 3.6 |
| P _o | Power Out @ Vt & Tc | Watts | 70 | 85 | 100 | 132 |
| T _p | Peak Torque | oz-in (Nm) | 52 (0.37) | 56 (0.40) | 69 (0.49) | 104 (0.73) |
| n _p | Speed @ Vt & Tp | RPM | 3306 | 3899 | 3696 | 3261 |
| I _p | Current @ Vt & Tp | Amp | 7.2 | 4.2 | 4.9 | 6.4 |

