

NHJ190K8

Brushless DC/AC Servomotors

Technical Data

| Parameter | Unit | -180 | -260 | -360 |
|--|-------------------|------------|------------|------------|
| General | | | | |
| Voltage Gradient No Load Line-Line | Volts/1000RPM | 180 | 260 | 360 |
| Max. Motor EMF Line-Line | Volts | 700 | 700 | 700 |
| Max. Speed | RPM | 3900 | 2700 | 1900 |
| Continuous Stall Torque TENV (110K) ³ | Nm | 67 | 67 | 67 |
| Continuous Stall Torque when fitted to Heatsink (Size 300 x 300 x 12 mm) | Nm | 71 | 71 | 71 |
| Peak Stall Torque | Nm | 240 | 240 | 240 |
| Continuous Stall Current rms ³ | Amps | 32 | 22 | 16 |
| Rotor Polar Moment of Inertia | kgcm ² | 290 | 290 | 290 |
| Maximum Current (Peak) | Amp | 190 | 140 | 100 |
| Cogging Torque | Nm | 1.2 | 1.2 | 1.2 |
| Torque Constant K _T rms ^{1,2} | Nm/Amp | 2.1 | 3.03 | 4.2 |

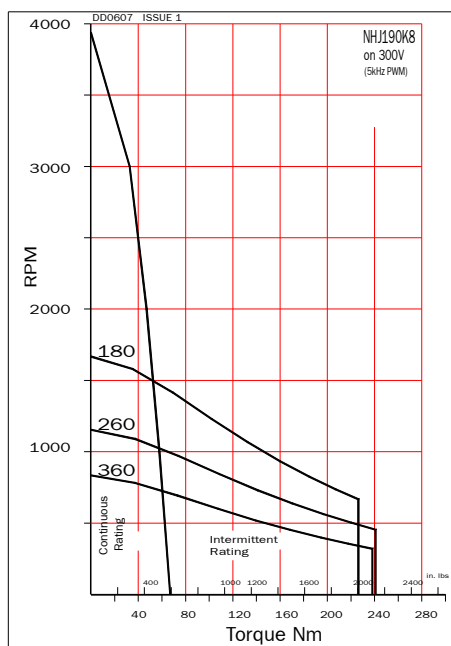
Winding

| | | | | |
|-----------------------------------|-------------|------|------|------|
| Resistance Line-Line ¹ | Ohms | 0.22 | 0.39 | 0.77 |
| Inductance Line-Line | Millihenrys | 4.3 | 8.4 | 16 |
| Insulation Class | | F | F | F |
| Max. Ambient Temperature | °C | 40 | 40 | 40 |
| Thermal Time Constant | Minutes | 90 | 90 | 90 |
| Thermal Resistance | °C/Watt | 0.24 | 0.24 | 0.24 |
| Static Friction Torque | Nm | 0.14 | 0.14 | 0.14 |
| Motor Weight | kg | 61 | 61 | 61 |

Tolerance All data is subject to a tolerance of ± 10% (except motor 'Voltage Gradient' and K_T which are to +15%/-5%).

- At 25°C.
- Note that K_T is shown as a combined value for all **three phases**.
- The temperature rise Δ T on the windings is 110K and applies to all continuous torque values. The maximum ambient temperature is 40°C and therefore the temperature on the windings should not be more than 150°C. A value higher than 150°C would exceed the class F insulation temperature specification.

NHJ190K8 on 300V



NHJ190K8 on 560V

