

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

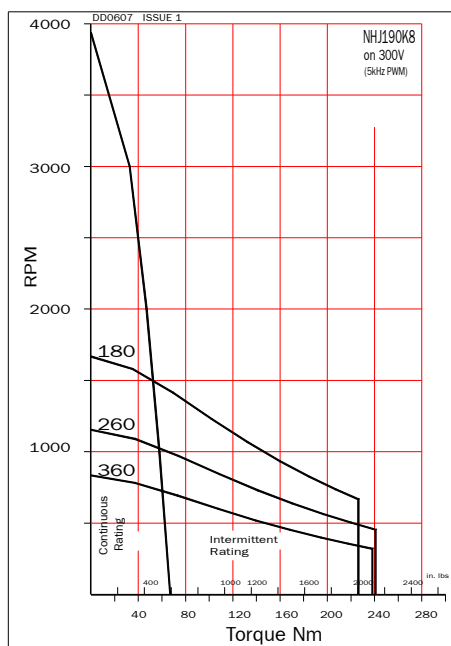
Winding

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

