

NHJ190D8 Brushless DC/AC Servomotors

Technical Data

Parameter	Unit	-130	-180	-260
General				
Voltage Gradient No Load Line-Line	Volts/1000RPM	130	180	260
Max. Motor EMF Line-Line	Volts	520	700	700
Max. Speed	RPM	4000	3900	2700
Continuous Stall Torque TENV (110K) ³	Nm	33	33	33
Continuous Stall Torque when fitted to Heatsink (Size 300 x 300 x 12 mm)	Nm	35	35	35
Peak Stall Torque	Nm	107	107	107
Continuous Stall Current rms ³	Amps	22	16	10.9
Rotor Polar Moment of Inertia	kgcm ²	133	133	133
Maximum Current (Peak)	Amp	125	89	62
Cogging Torque	Nm	0.65	0.65	0.65
Torque Constant K _T rms ^{1,2}	Nm/Amp	1.53	2.1	3.03

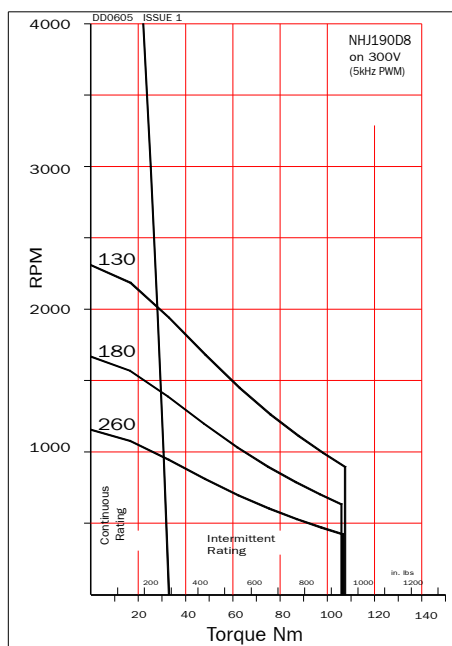
Winding

Resistance Line-Line ¹	Ohms	0.3	0.61	1.31
Inductance Line-Line	Millihenrys	5	9.7	20
Insulation Class		F	F	F
Max. Ambient Temperature	°C	40	40	40
Thermal Time Constant	Minutes	90	90	90
Thermal Resistance	°C/Watt	0.34	0.34	0.34
Static Friction Torque	Nm	0.14	0.14	0.14
Motor Weight	kg	33.5	33.5	33.5

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.

NHJ190D8 on 300V



NHJ190D8 on 560V

