

NHR190G8

Brushless DC/AC Servomotors

Technical Data

Parameter	Unit	-360	-260	-130
General				
Voltage Gradient No Load Line-Line	Volts/1000RPM	360	260	130
Max. Motor EMF Line-Line	Volts	700	700	520
Max. Speed	RPM	1900	2700	4000
Continuous Stall Torque TENV (110K) ³	Nm	56	56	56
Continuous Stall Torque when fitted to Heatsink (Size 500 x 500 x 20 mm)	Nm	59	59	59
Peak Stall Torque	Nm	170	170	170
Continuous Stall Current rms ³	Amps	13.3	18	37
Rotor Polar Moment of Inertia	kgcm ²	100	100	100
Maximum Current (Peak)	Amp	73	100	200
Cogging Torque	Nm	1.0	1.0	1.0
Torque Constant K _T rms ^{1,2}	Nm/Amp	4.2	3.03	1.53

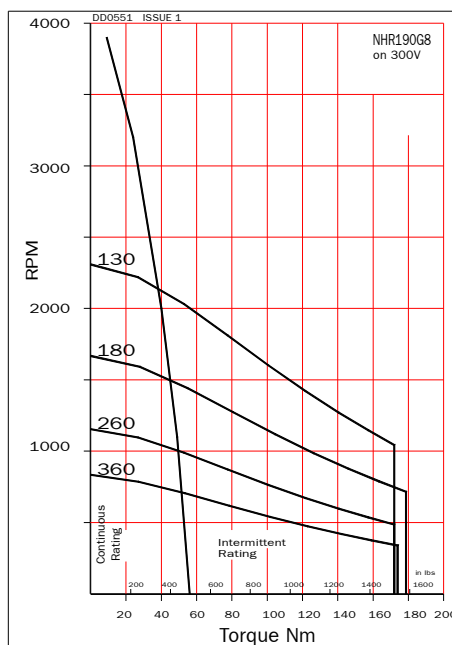
Winding

Resistance Line-Line ¹	Ohms	1.02	0.55	0.126
Inductance Line-Line	Millihenrys	20	10.5	2.5
Insulation Class		F	F	F
Max. Ambient Temperature	°C	40	40	40
Thermal Time Constant	Minutes	80	80	80
Thermal Resistance	°C/Watt	0.28	0.28	0.28
Static Friction Torque	Nm	0.14	0.14	0.14
Motor Weight	kg	43	43	43

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.

NHR190G8 on 300V



NHR190G8 on 560V

