

NHR92G4

Brushless DC/AC Servomotors

Technical Data

Parameter	Unit	-64	-44	-32
General				
Voltage Gradient No Load Line-Line	Volts/1000RPM	64	44	32
Max. Motor EMF Line-Line	Volts	380	260	190
Max. Speed	RPM	6000	6000	6000
Continuous Stall Torque TENV (110K) ³	Nm	3	3	3
Continuous Stall Torque when fitted to Heatsink (Size 300 x 300 x 12 mm)	Nm	3.3	3.3	3.3
Peak Stall Torque	Nm	9.2	9.2	9.2
Continuous Stall Current rms ³	Amps	4	5.8	8
Rotor Polar Moment of Inertia	kgcm ²	1.6	1.6	1.6
Maximum Current (Peak)	Amp	22	32	43
Cogging Torque	Nm	0.076	0.076	0.076
Torque Constant K _T rms ^{1,2}	Nm/Amp	0.75	0.51	0.375

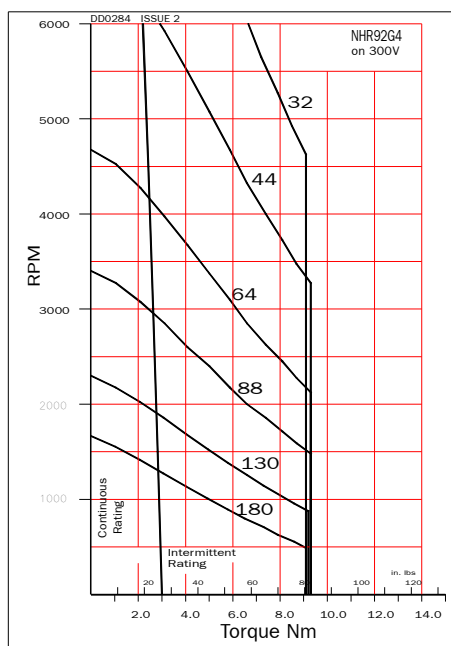
Winding

Resistance Line-Line ¹	Ohms	3.4	1.5	0.86
Inductance Line-Line	Millihenrys	19	8.9	4.7
Insulation Class		F	F	F
Max. Ambient Temperature	°C	40	40	40
Thermal Time Constant	Minutes	32	32	32
Thermal Resistance	°C/Watt	0.92	0.92	0.92
Static Friction Torque	Nm	0.04	0.04	0.04
Motor Weight	kg	5.8	5.8	5.8

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.

NHR92G4 on 300V



NHR92G4 on 560V

