

NHRS92J4

Brushless DC/AC Servomotors

Technical Data

Parameter	Unit	-88	-64	-44
General				
Voltage Gradient No Load Line-Line	Volts/1000RPM	88	64	44
Max. Motor EMF Line-Line	Volts	530	380	260
Max. Speed	RPM	6000	6000	6000
Continuous Stall Torque TENV (110K) ³	Nm	3.8	3.8	3.8
Continuous Stall Torque when fitted to Heatsink (Size 300 x 300 x 12 mm)	Nm	4.1	4.1	4.1
Peak Stall Torque	Nm	11.4	11.4	11.4
Continuous Stall Current rms ³	Amps	3.7	5.1	7.4
Rotor Polar Moment of Inertia	kgcm ²	2	2	2
Maximum Current (Peak)	Amp	20	27	39
Cogging Torque	Nm	0.09	0.09	0.09
Torque Constant K _T rms ^{1,2}	Nm/Amp	1.02	0.75	0.51

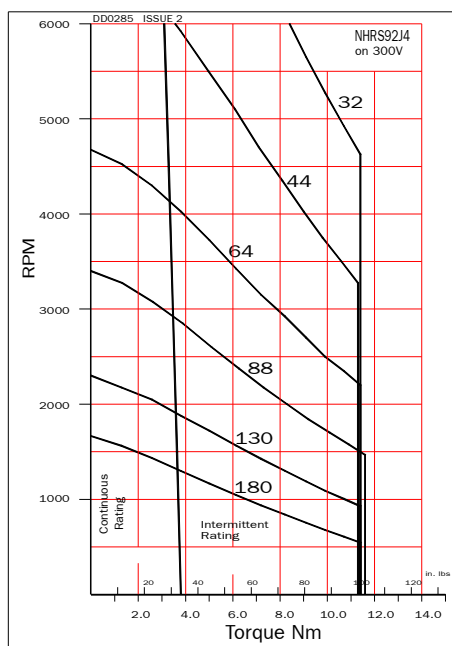
Winding

Resistance Line-Line ¹	Ohms	5	2.5	1.24
Inductance Line-Line	Millihenrys	29	15	7.2
Insulation Class		F	F	F
Max. Ambient Temperature	°C	40	40	40
Thermal Time Constant	Minutes	33	33	33
Thermal Resistance	°C/Watt	0.79	0.79	0.79
Static Friction Torque	Nm	0.04	0.04	0.04
Motor Weight	kg	6.5	6.5	6.5

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.

NHRS92J4 on 300V



NHRS92J4 on 560V

