

NHRS92C4

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	1.5	1.5	1.5
Continuous Stall Torque when fitted to Heatsink (Size 300 x 300 x 12 mm)	Nm	1.6	1.6	1.6
Peak Stall Torque	Nm	4.6	4.6	4.6
Continuous Stall Current rms ³	Amps	2	2.9	4
Rotor Polar Moment of Inertia	kgcm ²	0.94	0.94	0.94
Maximum Current (Peak)	Amp	11	16	22
Cogging Torque	Nm	0.048	0.048	0.048
Torque Constant K _T rms ^{1,2}	Nm/Amp	0.75	0.51	0.375

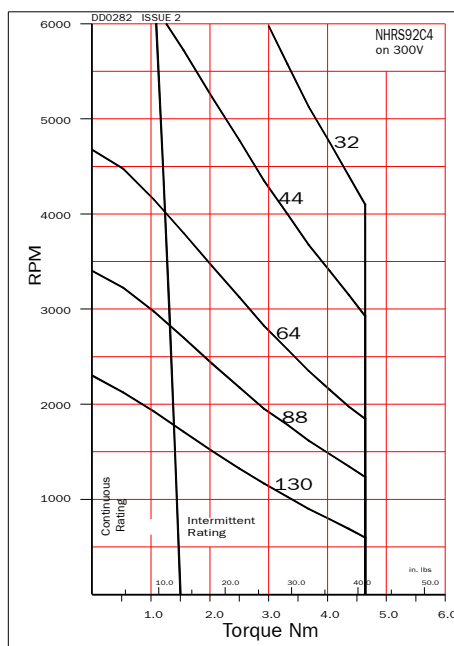
Winding

Resistance Line-Line ¹	Ohms	10.4	4.6	2.6
Inductance Line-Line	Millihenrys	43	20	10.8
Insulation Class		F	F	F
Max. Ambient Temperature	°C	40	40	40
Thermal Time Constant	Minutes	28	28	28
Thermal Resistance	°C/Watt	1.23	1.23	1.23
Static Friction Torque	Nm	0.04	0.04	0.04
Motor Weight	kg	4.1	4.1	4.1

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.

NHRS92C4 on 300V



NHRS92C4 on 560V

