

NHJ130A8 Brushless DC/AC Servomotors

Technical Data

Parameter	Unit	-130	-88	-64	-44
General					
Voltage Gradient No Load Line-Line	Volts/1000RPM	130	88	64	44
Max. Motor EMF Line-Line	Volts	520	350	260	180
Max. Speed	RPM	4000	4000	4000	4000
Continuous Stall Torque TENV (110K) ³	Nm	2.8	2.8	2.8	2.8
Continuous Stall Torque when fitted to Heatsink (Size 400 x 400 x 6 mm)	Nm	3.1	3.1	3.1	3.1
Peak Stall Torque	Nm	8.6	8.6	8.6	8.6
Continuous Stall Current rms ³	Amps	1.8	2.7	3.7	5.4
Rotor Polar Moment of Inertia	kgcm ²	10.2	10.2	10.2	10.2
Maximum Current (Peak)	Amp	8.4	12.5	17	25
Cogging Torque	Nm	0.28	0.28	0.28	0.28
Torque Constant K _T rms ^{1,2}	Nm/Amp	1.53	1.02	0.75	0.51

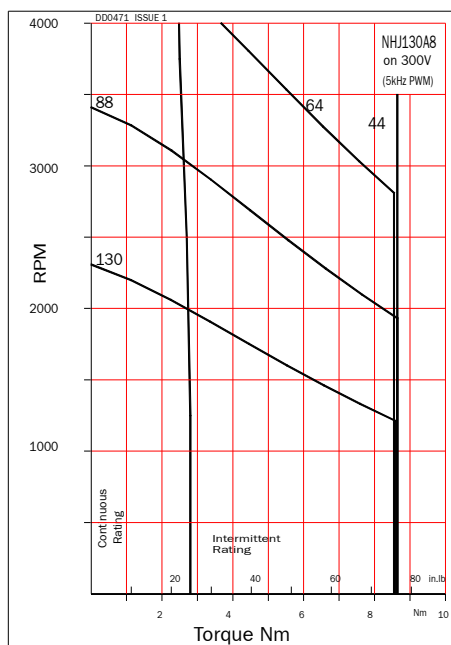
Winding

Resistance Line-Line ¹	Ohms	12.9	6.3	3.7	1.6
Inductance Line-Line	Millihenrys	34	16	8.2	4
Insulation Class		F	F	F	F
Max. Ambient Temperature	°C	40	40	40	40
Thermal Time Constant	Minutes	40	40	40	40
Thermal Resistance	°C/Watt	1.09	1.09	1.09	1.09
Static Friction Torque	Nm	0.14	0.14	0.14	0.14
Motor Weight	kg	6.1	6.1	6.1	6.1

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.

NHJ130A8 on 300V



NHJ130A8 on 560V

