

NHJ130E8

Brushless DC/AC Servomotors

Technical Data

Parameter	Unit	-180	-130	-88	-64
General					
Voltage Gradient No Load Line-Line	Volts/1000RPM	180	130	88	64
Max. Motor EMF Line-Line	Volts	700	520	350	260
Max. Speed	RPM	3900	4000	4000	4000
Continuous Stall Torque TENV (110K) ³	Nm	8.4	8.4	8.4	8.4
Continuous Stall Torque when fitted to Heatsink (Size 400 x 400 x 6 mm)	Nm	9.2	9.2	9.2	9.2
Peak Stall Torque	Nm	26	26	26	26
Continuous Stall Current rms ³	Amps	4	5.5	8.2	11.2
Rotor Polar Moment of Inertia	kgcm ²	21	21	21	21
Maximum Current (Peak)	Amp	18	25	38	52
Cogging Torque	Nm	0.34	0.34	0.34	0.34
Torque Constant K _T rms ^{1,2}	Nm/Amp	2.1	1.53	1.02	0.75

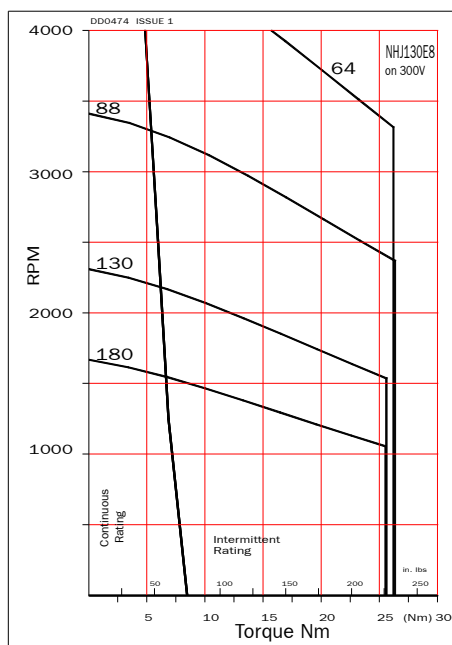
Winding

Resistance Line-Line ¹	Ohms	4	2.2	0.98	0.54
Inductance Line-Line	Millihenrys	17	8.7	3.9	2.1
Insulation Class		F	F	F	F
Max. Ambient Temperature	°C	40	40	40	40
Thermal Time Constant	Minutes	60	60	60	60
Thermal Resistance	°C/Watt	0.76	0.76	0.76	0.76
Static Friction Torque	Nm	0.14	0.14	0.14	0.14
Motor Weight	kg	9.7	9.7	9.7	9.7

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.

NHJ130E8 on 300V



NHJ130E8 on 560V

