

# NHJ130G8

## Brushless DC/AC Servomotors

### Technical Data

Parameter	Unit	-260	-180	-130	-88
<b>General</b>					
Voltage Gradient No Load Line-Line	Volts/1000RPM	260	180	130	88
Max. Motor EMF Line-Line	Volts	700	700	520	350
Max. Speed	RPM	2700	3900	4000	4000
<b>Continuous Stall Torque TENV (110K)</b> <sup>3</sup>	<b>Nm</b>	<b>11.5</b>	<b>11.5</b>	<b>11.5</b>	<b>11.5</b>
Continuous Stall Torque when fitted to Heatsink (Size 400 x 400 x 6 mm)	Nm	12.5	12.5	12.5	12.5
Peak Stall Torque	Nm	34	34	34	34
<b>Continuous Stall Current rms</b> <sup>3</sup>	<b>Amps</b>	<b>3.8</b>	<b>5.5</b>	<b>7.6</b>	<b>11.2</b>
Rotor Polar Moment of Inertia	kgcm <sup>2</sup>	26	26	26	26
<b>Maximum Current (Peak)</b>	<b>Amp</b>	<b>17</b>	<b>25</b>	<b>33</b>	<b>49</b>
Cogging Torque	Nm	0.38	0.38	0.38	0.38
Torque Constant K <sub>T</sub> rms <sup>1,2</sup>	Nm/Amp	3.03	2.1	1.53	1.02

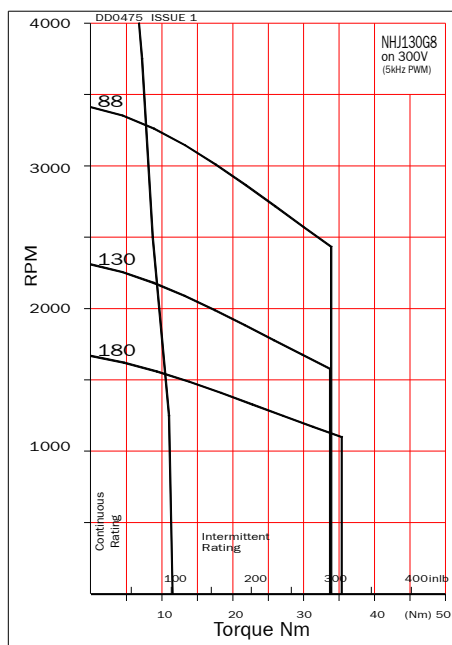
### Winding

Resistance Line-Line <sup>1</sup>	Ohms	5.9	2.5	1.5	0.64
Inductance Line-Line	Millihenrys	25	11.6	6.3	2.9
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	0.63	0.63	0.63	0.63
Static Friction Torque	Nm	0.14	0.14	0.14	0.14
Motor Weight	kg	11.5	11.5	11.5	11.5

Tolerance All data is subject to a tolerance of ± 10% (except motor 'Voltage Gradient' and K<sub>t</sub> which are to +15%/-5%).

- At 25°C.
- Note that K<sub>t</sub> 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.

NHJ130G8 on 300V



NHJ130G8 on 560V

