

## NHJ155D8 Brushless DC/AC Servomotors

### Technical Data

Parameter	Unit	-360	-260	-180	-130
<b>General</b>					
Voltage Gradient No Load Line-Line	Volts/1000RPM	360	260	180	130
Max. Motor EMF Line-Line	Volts	700	700	700	650
Max. Speed	RPM	1900	2700	3900	5000
<b>Continuous Stall Torque TENV (110K)</b> <sup>3</sup>	<b>Nm</b>	<b>22</b>	<b>22</b>	<b>22</b>	<b>22</b>
Continuous Stall Torque when fitted to Heatsink (Size 300 x 300 x 12 mm)	Nm	23	23	23	23
Peak Stall Torque	Nm	66	66	66	66
<b>Continuous Stall Current rms</b> <sup>3</sup>	<b>Amps</b>	<b>5.2</b>	<b>7.2</b>	<b>10.4</b>	<b>14</b>
Rotor Polar Moment of Inertia	kgcm <sup>2</sup>	54	54	54	54
<b>Maximum Current (Peak)</b>	<b>Amp</b>	<b>25</b>	<b>34</b>	<b>50</b>	<b>70</b>
Cogging Torque	Nm	0.46	0.46	0.46	0.46
Torque Constant K <sub>T</sub> rms <sup>1,2</sup>	Nm/Amp	4.2	3.03	2.1	1.53

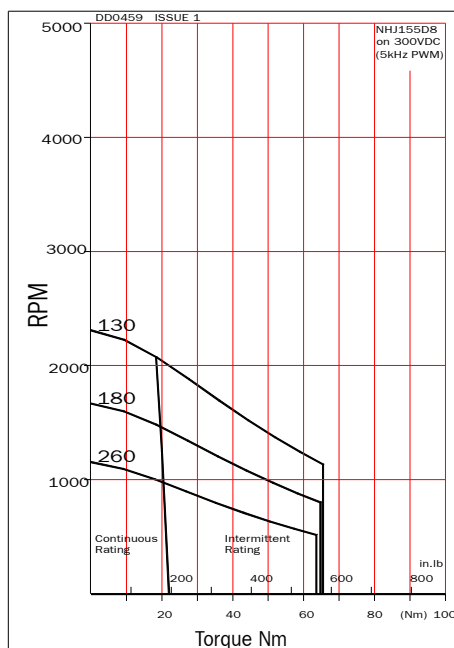
### Winding

Resistance Line-Line <sup>1</sup>	Ohms	4.5	2.5	1.13	0.59
Inductance Line-Line	Millihenrys	47	26	11.9	6.2
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	0.42	0.42	0.42	0.42
Static Friction Torque	Nm	0.14	0.14	0.14	0.14
Motor Weight	kg	20	20	20	20

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.

NHJ155D8 on 300V



NHJ155D8 on 560V

