

# NHJ155E8

## 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) <sup>3</sup></b>	<b>Nm</b>	<b>35</b>	<b>25</b>	<b>25</b>	<b>25</b>
Continuous Stall Torque when fitted to Heatsink (Size 300 x 300 x 12 mm)	Nm	26	26	26	26
Peak Stall Torque	Nm	74	74	74	74
<b>Continuous Stall Current rms <sup>3</sup></b>	<b>Amps</b>	<b>5.9</b>	<b>8.2</b>	<b>11.9</b>	<b>16</b>
Rotor Polar Moment of Inertia	kgcm <sup>2</sup>	65	65	65	65
<b>Maximum Current (Peak)</b>	<b>Amp</b>	<b>30</b>	<b>42</b>	<b>60</b>	<b>79</b>
Cogging Torque	Nm	0.52	0.52	0.52	0.52
Torque Constant K <sub>T</sub> rms <sup>1,2</sup>	Nm/Amp	4.2	3	2.1	1.5

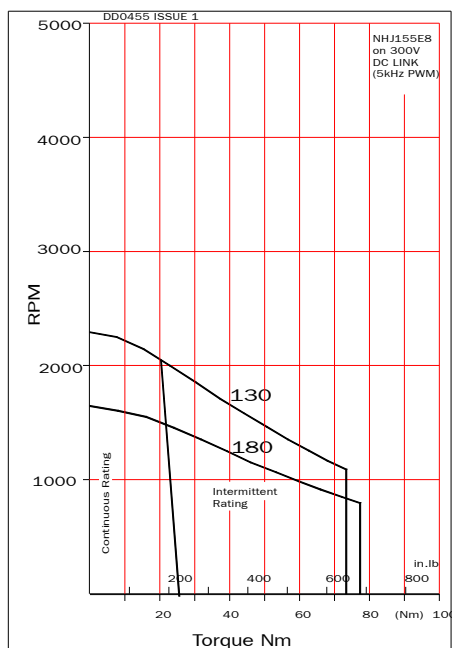
### Winding

Resistance Line-Line <sup>1</sup>	Ohms	3.4	1.8	0.86	0.52
Inductance Line-Line	Millihenrys	41	21	10.2	5.9
Insulation Class		F	F	F	F
Max. Ambient Temperature	°C	40	40	40	40
Thermal Time Constant	Minutes	70	70	70	70
Thermal Resistance	°C/Watt	0.35	0.35	0.35	0.35
Static Friction Torque	Nm	0.14	0.14	0.14	0.14
Motor Weight	kg	23	23	23	23

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.

NHJ155E8 on 300V



NHJ155E8 on 560V

