

# NHJ190C8

## 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	650	440
Max. Speed	RPM	2700	3900	5000	5000
<b>Continuous Stall Torque TENV (110K) <sup>3</sup></b>	<b>Nm</b>	<b>27</b>	<b>27</b>	<b>27</b>	<b>27</b>
Continuous Stall Torque when fitted to Heatsink (Size 300 x 300 x 12 mm)	Nm	29	29	29	29
Peak Stall Torque	Nm	85	85	85	85
<b>Continuous Stall Current rms <sup>3</sup></b>	<b>Amps</b>	<b>8.9</b>	<b>12.8</b>	<b>18</b>	<b>26</b>
Rotor Polar Moment of Inertia	kgcm <sup>2</sup>	106	106	106	106
<b>Maximum Current (Peak)</b>	<b>Amp</b>	<b>49</b>	<b>71</b>	<b>100</b>	<b>150</b>
Cogging Torque	Nm	0.56	0.56	0.56	0.56
Torque Constant K <sub>T</sub> rms <sup>1,2</sup>	Nm/Amp	3.03	2.1	1.53	1.02

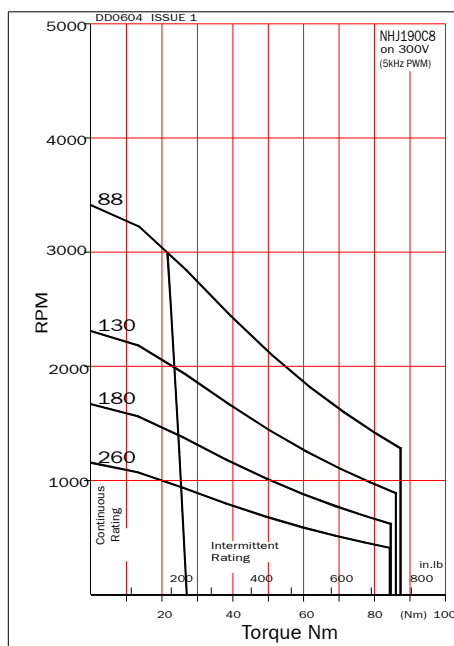
### Winding

Resistance Line-Line <sup>1</sup>	Ohms	1.8	0.85	0.4	0.2
Inductance Line-Line	Millihenrys	26	12.4	6.3	3
Insulation Class		F	F	F	F
Max. Ambient Temperature	°C	40	40	40	40
Thermal Time Constant	Minutes	90	90	90	90
Thermal Resistance	°C/Watt	0.36	0.36	0.36	0.36
Static Friction Torque	Nm	0.14	0.14	0.14	0.14
Motor Weight	kg	29	29	29	29

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.

NHJ190C8 on 300V



NHJ190C8 on 560V

