

NHJ155B8 Brushless DC/AC Servomotors

Technical Data

Parameter	Unit	-260	-180	-130	-88
General					
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
Continuous Stall Torque TENV (110K) ³	Nm	16	16	16	16
Continuous Stall Torque when fitted to Heatsink (Size 300 x 300 x 12 mm)	Nm	17	17	17	17
Peak Stall Torque	Nm	51	51	51	51
Continuous Stall Current rms ³	Amps	5.3	7.6	10.5	16
Rotor Polar Moment of Inertia	kgcm ²	33	33	33	33
Maximum Current (Peak)	Amp	27	40	54	80
Cogging Torque	Nm	0.36	0.36	0.36	0.36
Torque Constant K _T rms ^{1,2}	Nm/Amp	3.03	2.1	1.5	1.03

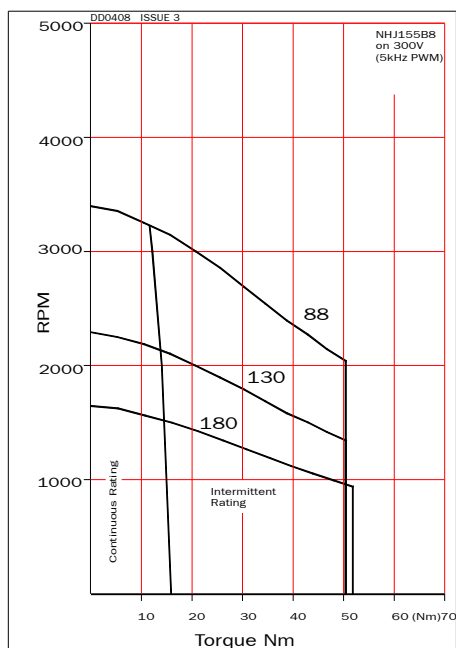
Winding

Resistance Line-Line ¹	Ohms	3.3	1.6	0.84	0.39
Inductance Line-Line	Millihenrys	22	10.1	5.5	2.5
Insulation Class		F	F	F	F
Max. Ambient Temperature	°C	40	40	40	40
Thermal Time Constant	Minutes	50	50	50	50
Thermal Resistance	°C/Watt	0.56	0.56	0.56	0.56
Static Friction Torque	Nm	0.14	0.14	0.14	0.14
Motor Weight	kg	15	15	15	15

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.

NHJ155B8 on 300V



NHJ155B8 on 560V

