

NHJ116J6

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	700	530
Max. Speed	RPM	2700	3900	5400	6000
Continuous Stall Torque TENV (110K) ³	Nm	11.8	11.8	11.8	11.8
Continuous Stall Torque when fitted to Heatsink (Size 300 x 300 x 12 mm)	Nm	12.8	12.8	12.8	12.8
Peak Stall Torque	Nm	41	41	41	41
Continuous Stall Current rms ³	Amps	3.9	5.6	7.8	11.5
Rotor Polar Moment of Inertia	kgcm ²	15	15	15	15
Maximum Current (Peak)	Amp	22	32	46	65
Cogging Torque	Nm	0.36	0.36	0.36	0.36
Torque Constant K _T rms ^{1,2}	Nm/Amp	3	2.1	1.5	1.03

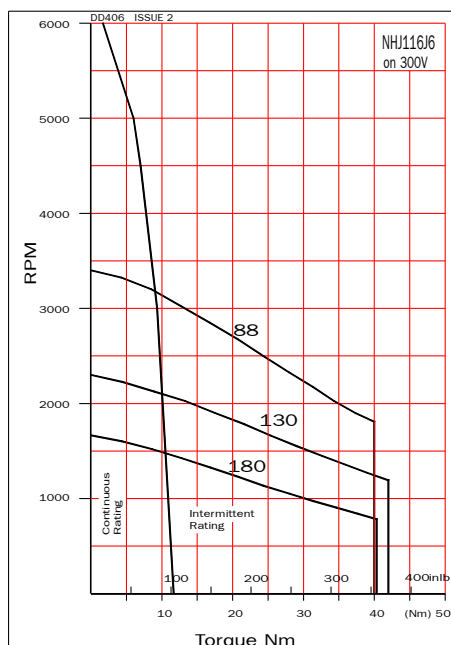
Winding

Resistance Line-Line ¹	Ohms	7.9	3.6	1.7	0.85
Inductance Line-Line	Millihenrys	41	19	9.5	4.8
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	0.48	0.48	0.48	0.48
Static Friction Torque	Nm	0.09	0.09	0.09	0.09
Motor Weight	kg	12	12	12	12

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.

NHJ116J6 on 300V



NHJ116J6 on 560V

