NHDM82C8

Brushless DC/AC Servomotors

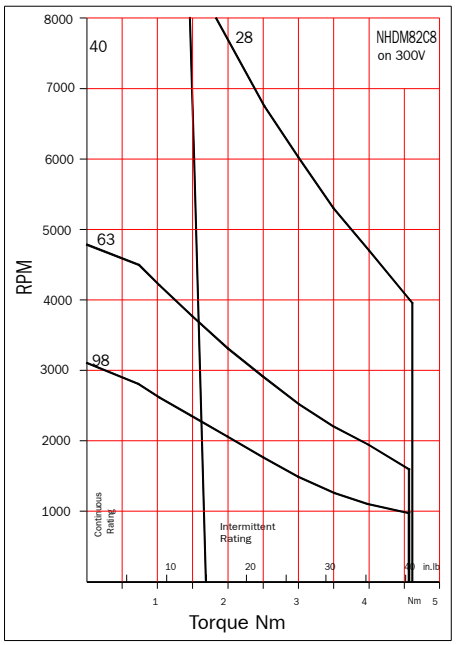
Technical Data

Parameter	Unit	-63S	-44S	-28S	-22S
General					
Voltage Gradient No Load	Volts	63	44	28	22
Max. Motor EMF Line-Line	Volts	500	350	220	180
Max. Speed (300 V DC link)	RPM	2200	4000	5400	8000
Max. Speed (560 V DC link) [1]	RPM	4400	-	-	-
Continuous Stall Torque	**Nm**	**1.7**	**1.7**	**1.7**	**1.7**
Peak Stall Torque	Nm	4.6	4.6	4.6	4.6
Continuous Stall Current	**Amps**	**2.3**	**3.3**	**5.2**	**6.6**
Peak Current	**Amps**	**11**	**16**	**25**	**32**
Rated Torque [2]	Nm	1.6	1.6	1.6	1.6
Rated Current [2]	Amps	2.1	3.1	4.8	6.2
Rotor Polar Moment of Inertia	kgcm²	0.61	0.61	0.61	0.61
Cogging Torque	Nm	0.05	0.05	0.05	0.05
Torque Constant K_T [3,4]	Nm/Amp	0.75	0.52	0.33	0.26
Winding					
Resistance Line-Line [3]	Ohms	7	3.3	1.37	0.83
Inductance Line-Line	Millihenrys	30	23	5.9	3.6
Insulation Class		F	F	F	F
Max. Ambient Temperature	˚C	40	40	40	40
Thermal Time Constant	Minutes	23	23	23	23
Thermal Resistance	˚C/Watt	1.24	1.24	1.24	1.24
Static Friction Torque	Nm	0.04	0.04	0.04	0.04
Motor Weight	kg	2.3	2.3	2.3	2.3

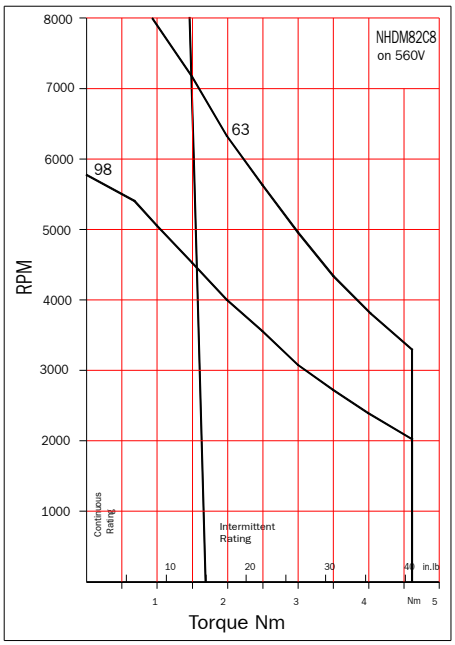
Notes:

1. Where no motor speed is specified, optimal performance may not be achieved on 560V DC link.
2. Motors are tested on an aluminium heatsink with dimensions 255x255x6mm and with a temperature rise dT of 100K on the windings. The maximum temperature of the windings is therefore 140 ˚C.
3. At 25 ˚C.
4. At rated values Torque = Kt x rms current.

NHDM82C8 on 300V



NHDM82C8 on 560V



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