

DC-BRUSHLESS MOTOR
NX420EAP
 ELECTRONIC DRIVE
DIGIVEX 4/8 - 460

PARVEX

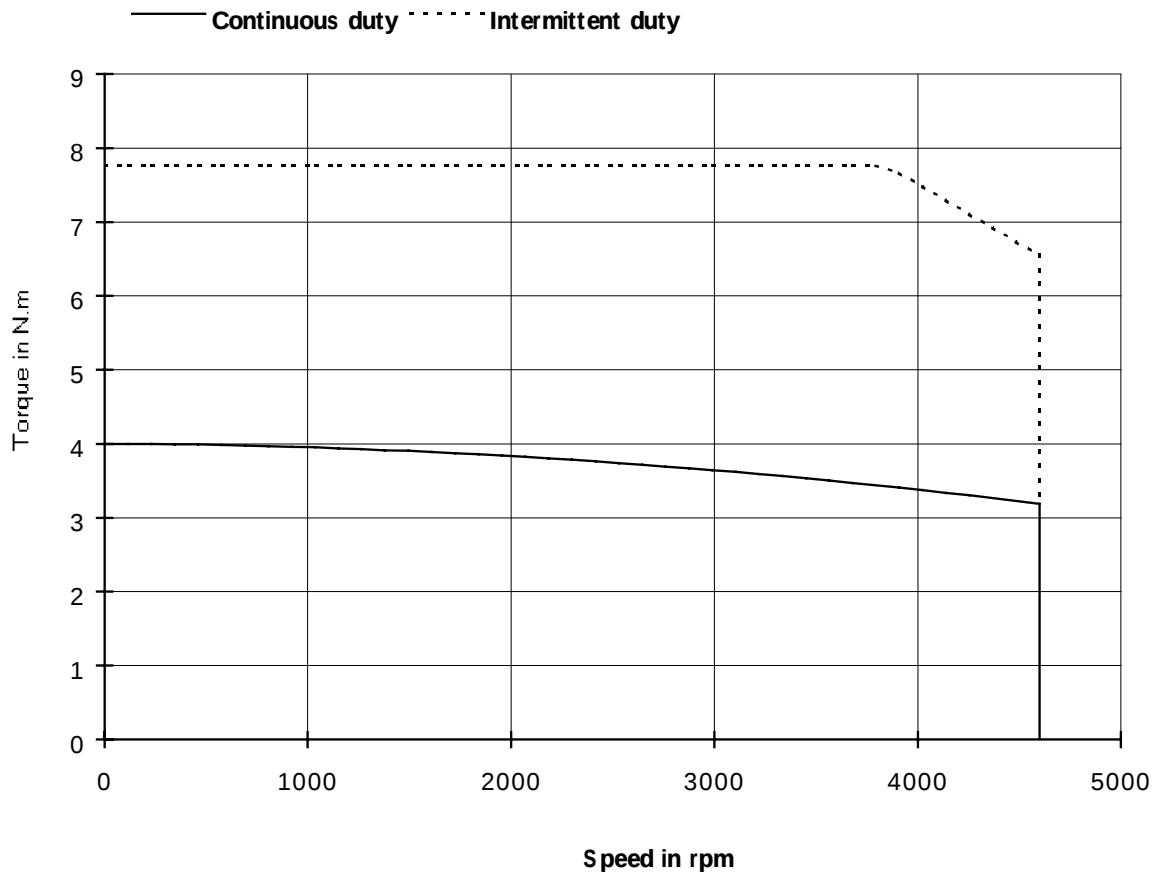
8 avenue du Lac / BP249
 F-21007 DIJON Cedex

Low speed torque	4	<i>N.m</i>	M_o
Max speed	4600	<i>rpm</i>	N
DC voltage supply when motor is loaded	620	<i>V</i>	$\hat{U}$
Permanent current at low speed	3.98	<i>A</i>	$\hat{I}_o$
Peak current	8	<i>A</i>	$\hat{I}_{maxi}$
Back emf constant at 1000 rpm (25°C)*	126	<i>V</i>	$\hat{K}_e$
Torque sensitivity	1	<i>N.m/A</i>	$\hat{K}_t$
Winding resistance(25°C) *	7.44	Ω	R_b
Winding inductance *	33	<i>mH</i>	L
Rotor inertia	29	<i>kg.m².10⁻⁵</i>	J
Thermal time constant	12	<i>min</i>	T_{th}
Motor mass	3.8	<i>kg</i>	M

All data are given in typical values under standard conditions

* Phase to phase

Voltages and currents given in peak values



FICHE-007

Creation: 16 mai 2000

Edition: 17/mai/2000

NX420EAP