

BRUSHLESS MOTORS
NX420EAJ
ELECTRONIC DRIVE (1)
DIGIVEX 7.5/15 et DIGIVEX 8/16
(230 V) (400 V)



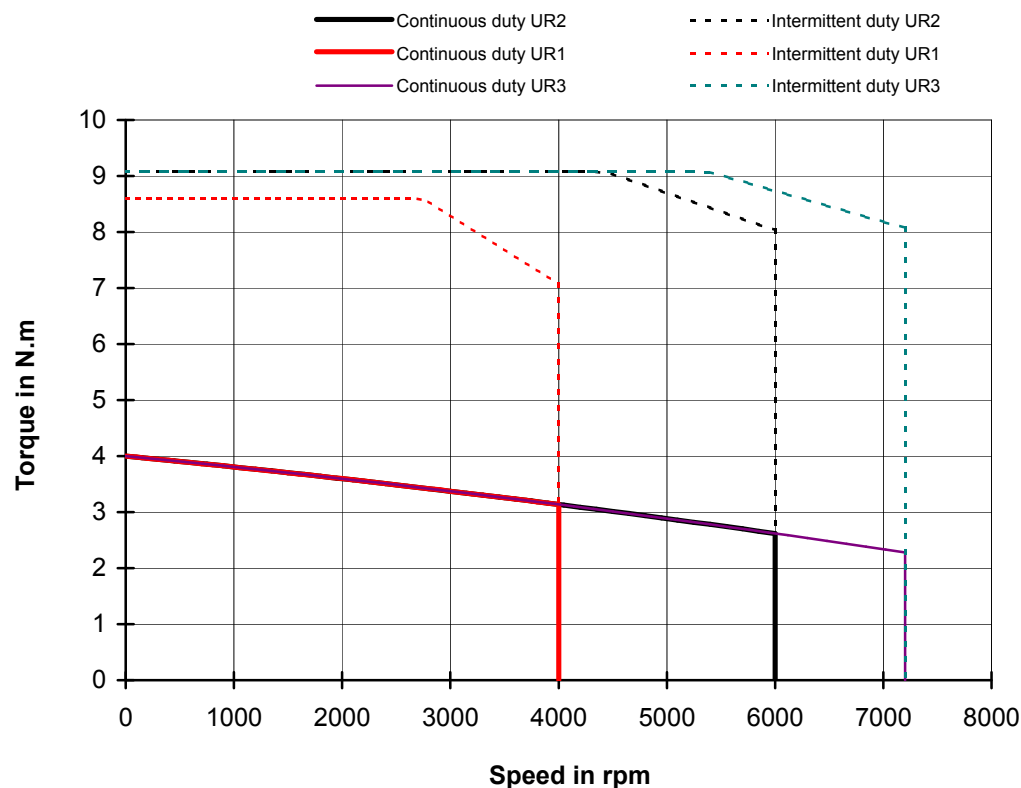
Torque at low speed	M_o	Nm	4
Permanent current at low speed	I_o	A_{rms}	4.69
Peak torque	M_p	Nm	13.4
Current for the peak torque	I_p	A_{rms}	18.8
Back emf constant at 1000 rpm (25°C)*	K_e	V_{rms}	51.9
Torque sensitivity	K_t	Nm/A_{rms}	0.853
Winding resistance (25°C)*	R_b	Ω	2.39
Winding inductance*	L	mH	11
Rotor inertia	J	$kgm^2 \times 10^{-5}$	29
Thermal time constant	T_{th}	min	12
Motor mass	M	kg	3.8
Voltage of the mains	UR1 UR2 UR3	V_{rms}	230 400 480
Rated speed	Nn1 Nn2 Nn3	rpm	4000 6000 7200
Rated torque	Mn1 Mn2 Mn3	Nm	3.14 2.62 2.28
Rated current	In1 In2 In3	A_{rms}	3.74 3.17 2.79
Rated power	Pn1 Pn2 Pn3	W	1310 1650 1720

All data are given in typical values under standard conditions

* Phase to phase

(1) Please check the availability of this drive with 480 V

Voltages and currents are given in rms values



Characteristics are given for an optimal drive of the motor

FICHE-009

Création: 28 août 2000

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10/févr/2005

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