

BRUSHLESS MOTORS
NX420EAV
ELECTRONIC DRIVE (1)
DIGIVEX 2/4

(230 V)

(400 V)



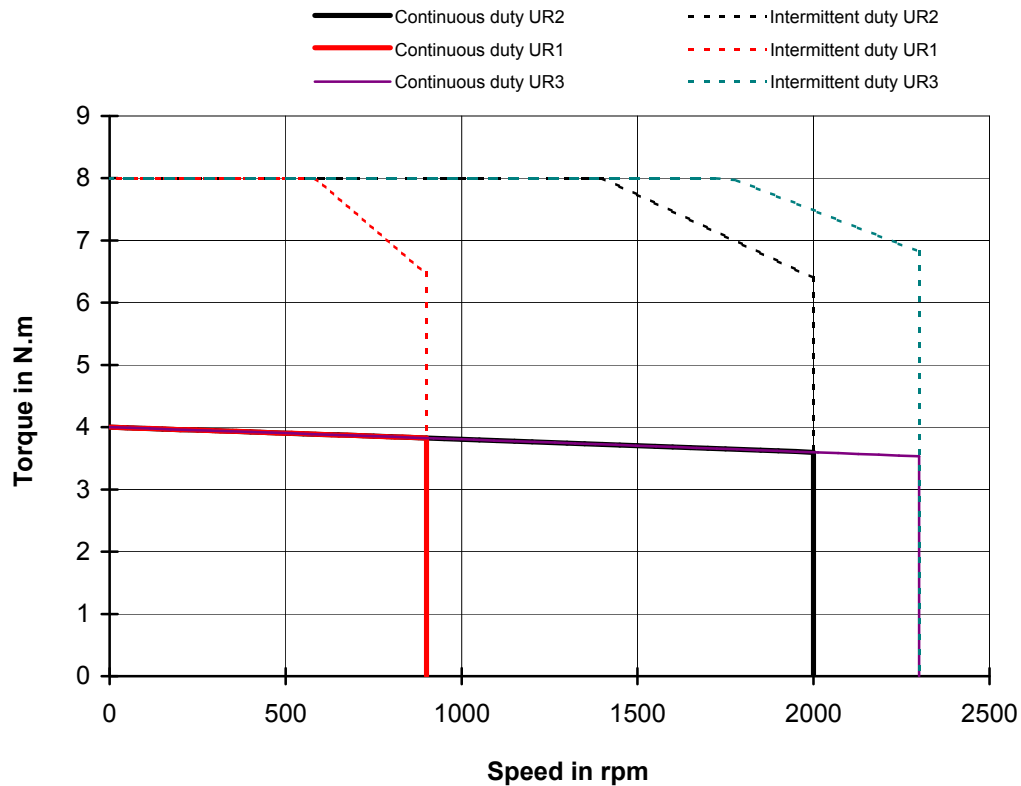
Torque at low speed	M_o	Nm	4		
Permanent current at low speed	I_o	A_{rms}	1.36		
Peak torque	M_p	Nm	13.4		
Current for the peak torque	I_p	A_{rms}	5.47		
Back emf constant at 1000 rpm (25°C)*	K_e	V_{rms}	179		
Torque sensitivity	K_t	Nm/A_{rms}	2.94		
Winding resistance (25°C)*	R_b	Ω	29.4		
Winding inductance*	L	mH	131		
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	900	2000	2300
Rated torque	Mn1 Mn2 Mn3	Nm	3.83	3.60	3.53
Rated current	In1 In2 In3	A_{rms}	1.30	1.23	1.21
Rated power	Pn1 Pn2 Pn3	W	360	750	850

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: 11 mai 2000

Edition:

10/févr/2005

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