

BRUSHLESS MOTORS
NX420EAP
ELECTRONIC DRIVE (1)
DIGIVEX 4/8

(230 V)

(400 V)



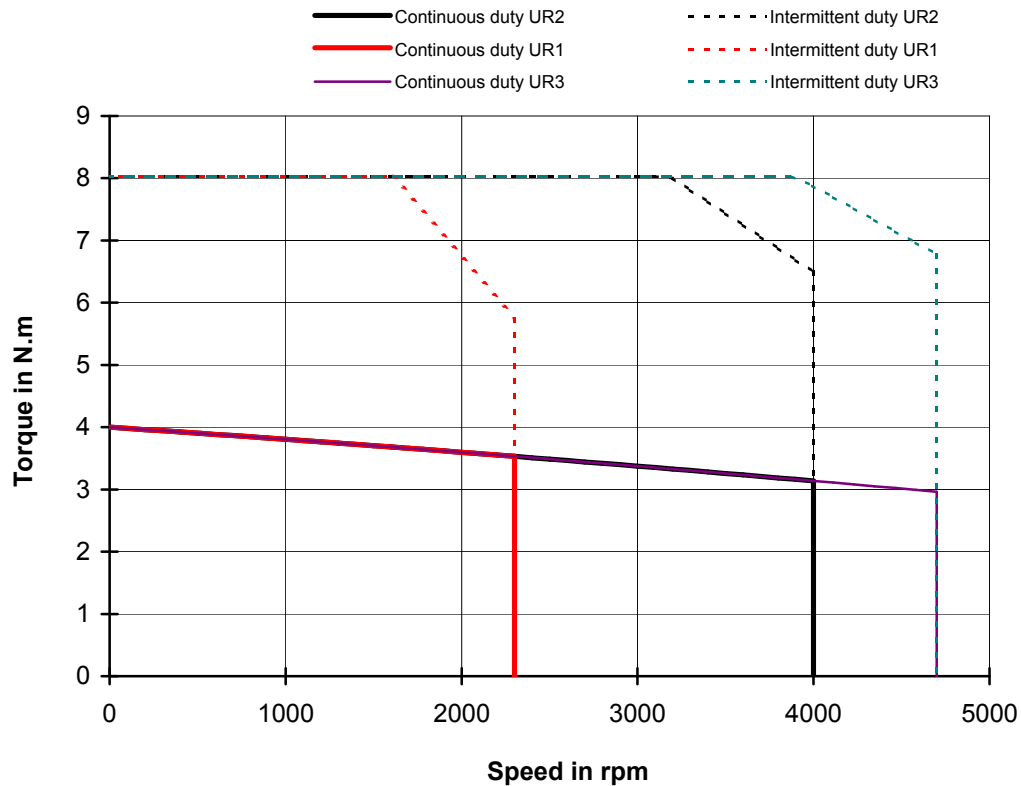
Torque at low speed	M_o	Nm	4		
Permanent current at low speed	I_o	A_{rms}	2.71		
Peak torque	M_p	Nm	13.4		
Current for the peak torque	I_p	A_{rms}	10.9		
Back emf constant at 1000 rpm (25°C)*	K_e	V_{rms}	89.9		
Torque sensitivity	K_t	Nm/A_{rms}	1.48		
Winding resistance (25°C)*	R_b	Ω	7.44		
Winding inductance*	L	mH	33		
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	2300	4000	4700
Rated torque	Mn1 Mn2 Mn3	Nm	3.53	3.14	2.96
Rated current	In1 In2 In3	A_{rms}	2.41	2.16	2.05
Rated power	Pn1 Pn2 Pn3	W	850	1310	1460

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: 30 juil 1999

Edition: 10/févr/2005

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