

BRUSHLESS MOTORS
NX630EAR
ELECTRONIC DRIVE (1)
DIGIVEX 7.5/15 et DIGIVEX 8/16
(230 V) (400 V)



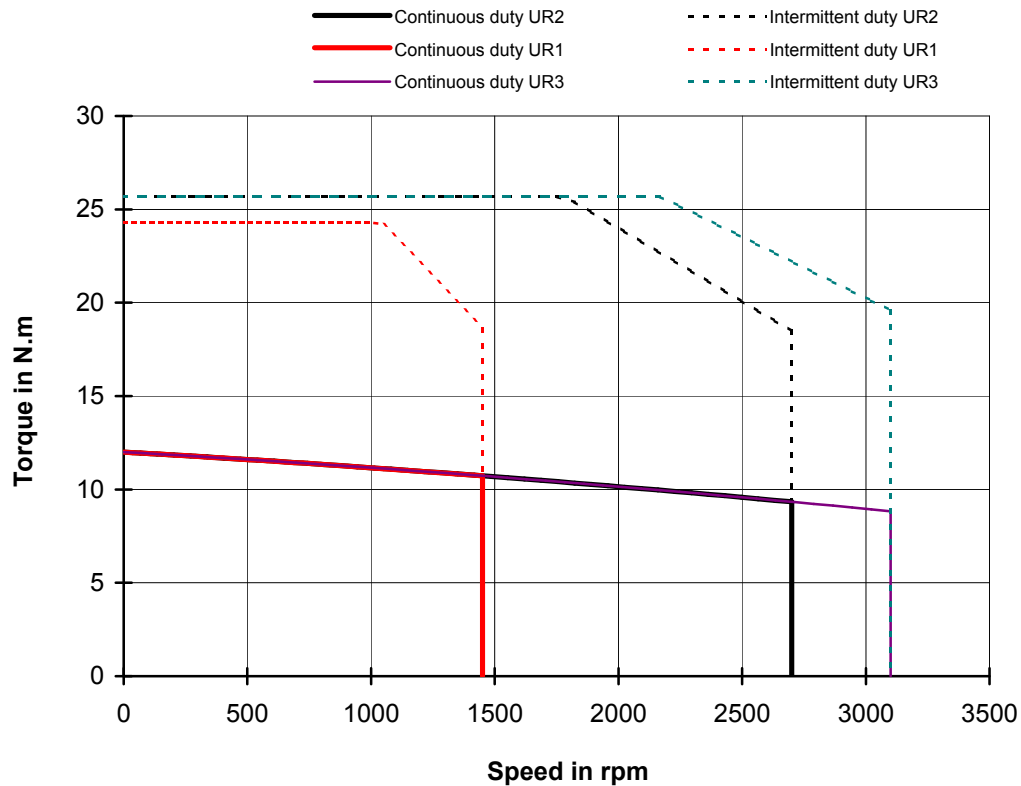
Torque at low speed	M_o	Nm	12		
Permanent current at low speed	I_o	A_{rms}	5.25		
Peak torque	M_p	Nm	40		
Current for the peak torque	I_p	A_{rms}	21		
Back emf constant at 1000 rpm (25°C)*	K_e	V_{rms}	138		
Torque sensitivity	K_t	Nm/A_{rms}	2.29		
Winding resistance (25°C)*	R_b	Ω	2.43		
Winding inductance*	L	mH	24.9		
Rotor inertia	J	$kgm^2 \times 10^{-5}$	147		
Thermal time constant	T_{th}	min	33		
Motor mass	M	kg	8.9		
Voltage of the mains	UR1 UR2 UR3	V_{rms}	230	400	480
Rated speed	Nn1 Nn2 Nn3	rpm	1450	2700	3100
Rated torque	Mn1 Mn2 Mn3	Nm	10.73	9.34	8.84
Rated current	In1 In2 In3	A_{rms}	4.75	4.20	4.00
Rated power	Pn1 Pn2 Pn3	W	1630	2640	2870

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: 12 mai 2000

Edition:

10/févr/2005

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