

**BRUSHLESS MOTORS**  
**NX430EAF**  
**ELECTRONIC DRIVE (1)**  
**DIGIVEX 15/30 et DIGIVEX 16/32**  
(230 V) (400 V)



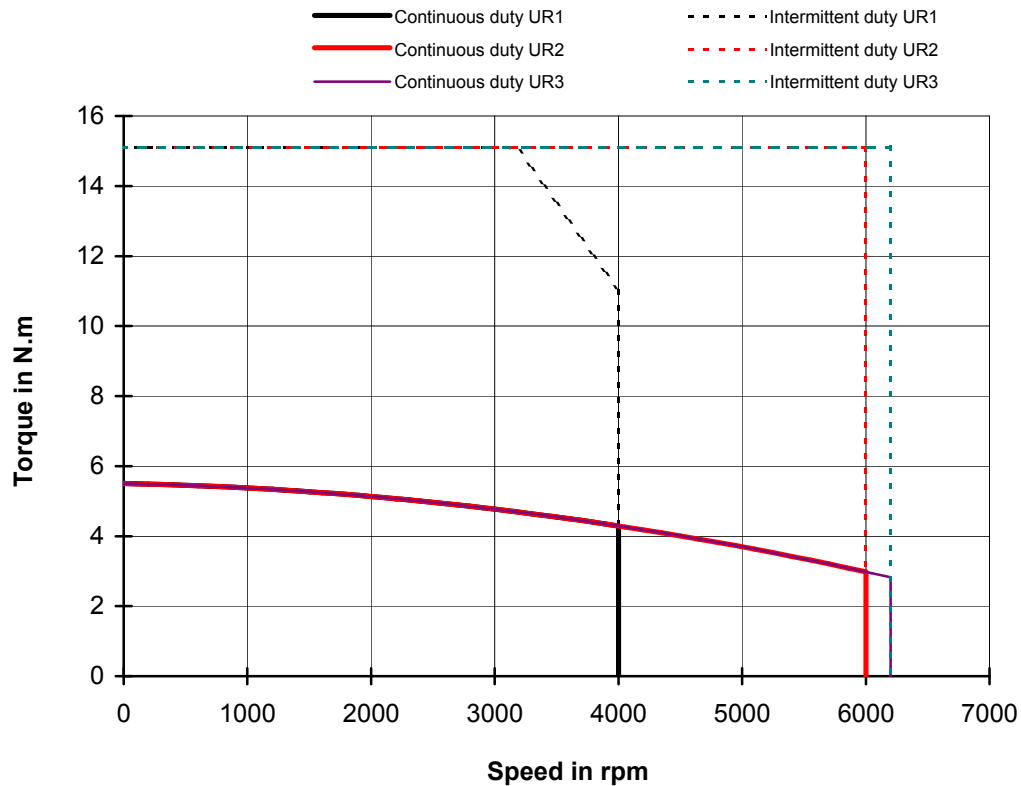
Torque at low speed	$M_o$	Nm	5.5		
Permanent current at low speed	$I_o$	$A_{rms}$	6.64		
Peak torque	$M_p$	Nm	18.8		
Current for the peak torque	$I_p$	$A_{rms}$	26.5		
Back emf constant at 1000 rpm (25°C)*	$K_e$	$V_{rms}$	51.8		
Torque sensitivity	$K_t$	$Nm/A_{rms}$	0.828		
Winding resistance (25°C)*	$R_b$	$\Omega$	1.48		
Winding inductance*	$L$	mH	6.8		
Rotor inertia	$J$	$kgm^2 \times 10^{-5}$	42.6		
Thermal time constant	$T_{th}$	min	18		
Motor mass	$M$	kg	4.8		
Voltage of the mains	UR1 UR2 UR3	$V_{rms}$	230	400	480
Rated speed	Nn1 Nn2 Nn3	rpm	4000	6000	6200
Rated torque	Mn1 Mn2 Mn3	Nm	4.29	2.98	2.82
Rated current	In1 In2 In3	$A_{rms}$	5.28	3.76	3.58
Rated power	Pn1 Pn2 Pn3	W	1800	1870	1830

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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