

BRUSHLESS MOTOR

EX430EAP

ELECTRONIC DRIVE

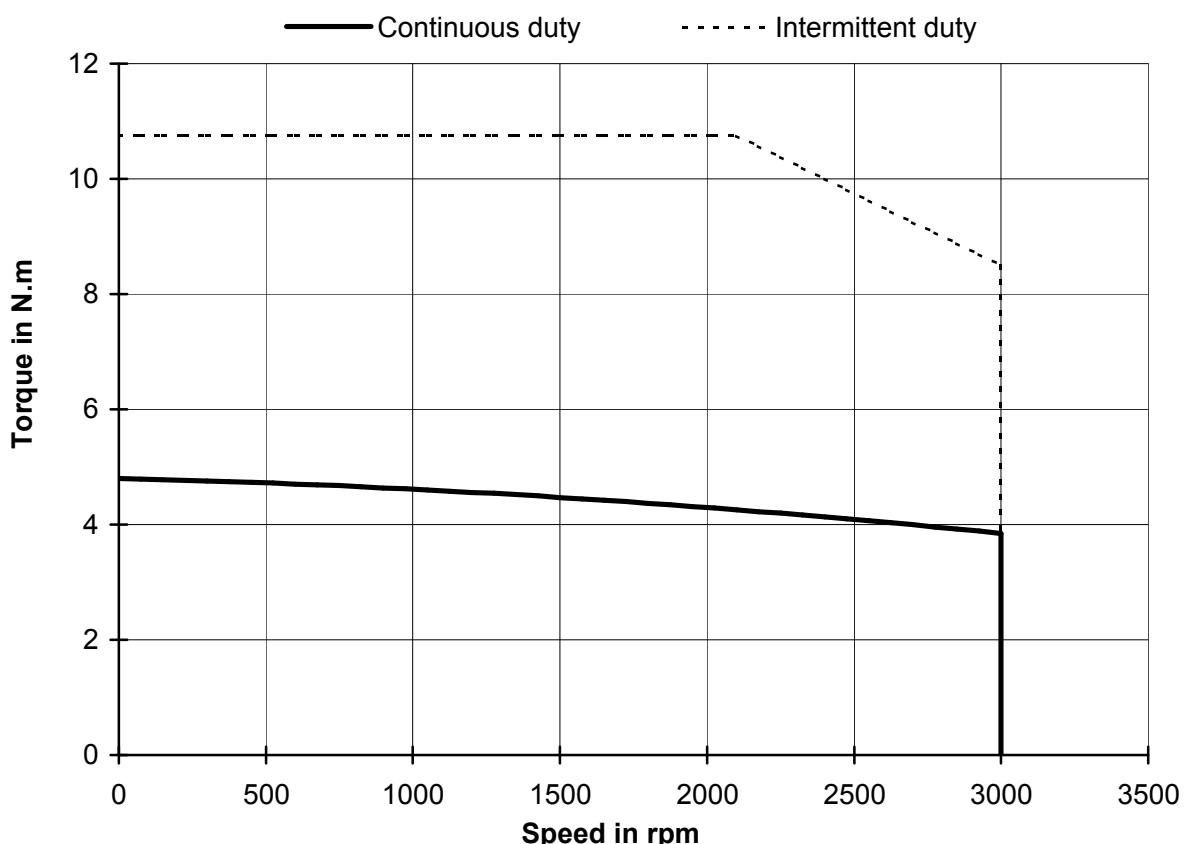
DIGIVEX 4/8 - 400

Low speed torque	4.8	N.m	M °
Max speed	3000	rpm	N
DC voltage supply when motor is loaded	540	V	U
Permanent current at low speed	3.48	A	I °
Peak current	8	A	I ^{maxi}
Back emf constant at 1000 rpm (25°C)*	172	V	K ^e
Torque sensitivity	1.38	N.m/A	K ^t
Winding resistance(25°C) *	7.78	Ω	R _b
Winding inductance *	37.8	mH	L
Rotor inertia	42.6	kg.m ² × 10 ⁻⁵	J
Thermal time constant	18	min	T _{th}
Motor mass	7	kg	M

All data are given in typical values under standard conditions

* Phase to phase

Voltages and currents given in peak values



Characteristics are given for an optimal drive of the motor

FICHE-009