

BRUSHLESS MOTOR

**EX430EAP**

ELECTRONIC DRIVE

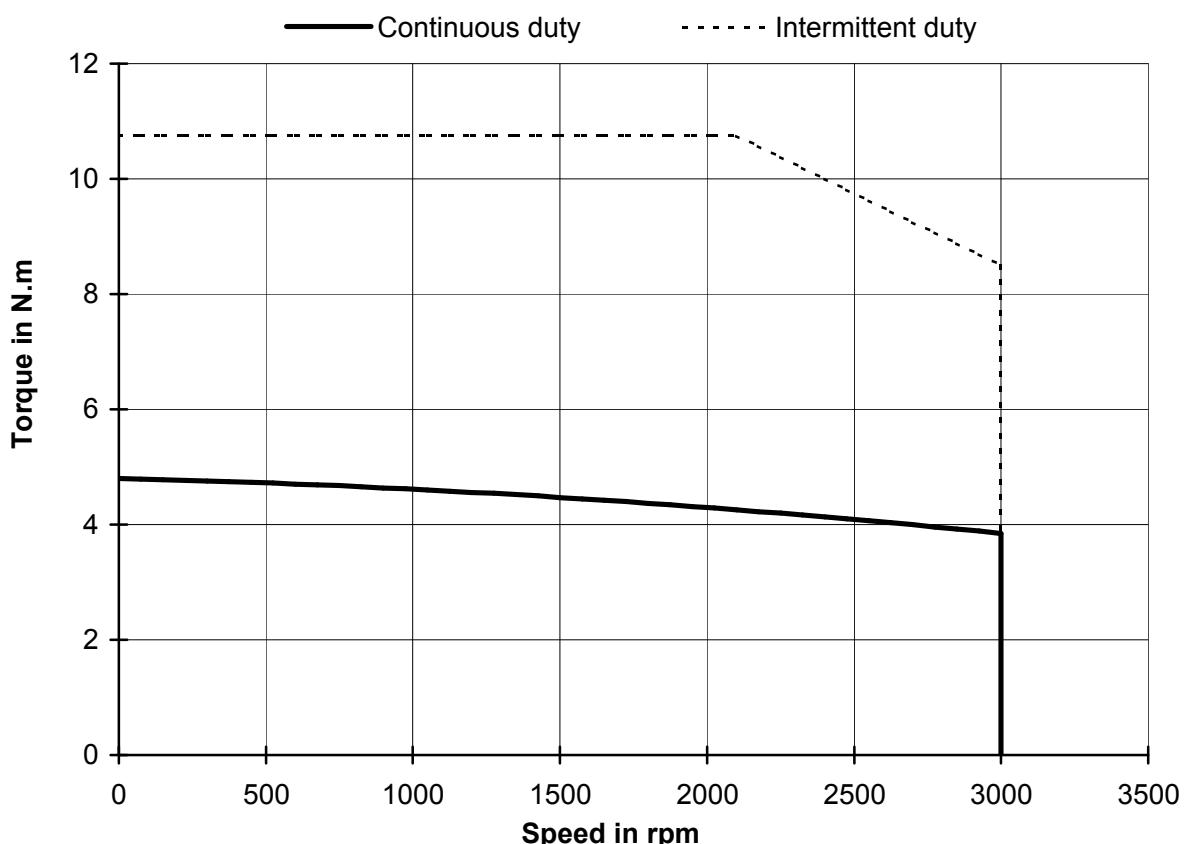
**DIGIVEX 4/8 - 400**

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