

BRUSHLESS MOTOR  
**EX420EAV**  
 ELECTRONIC DRIVE  
**DIGIVEX 2/4 - 400**

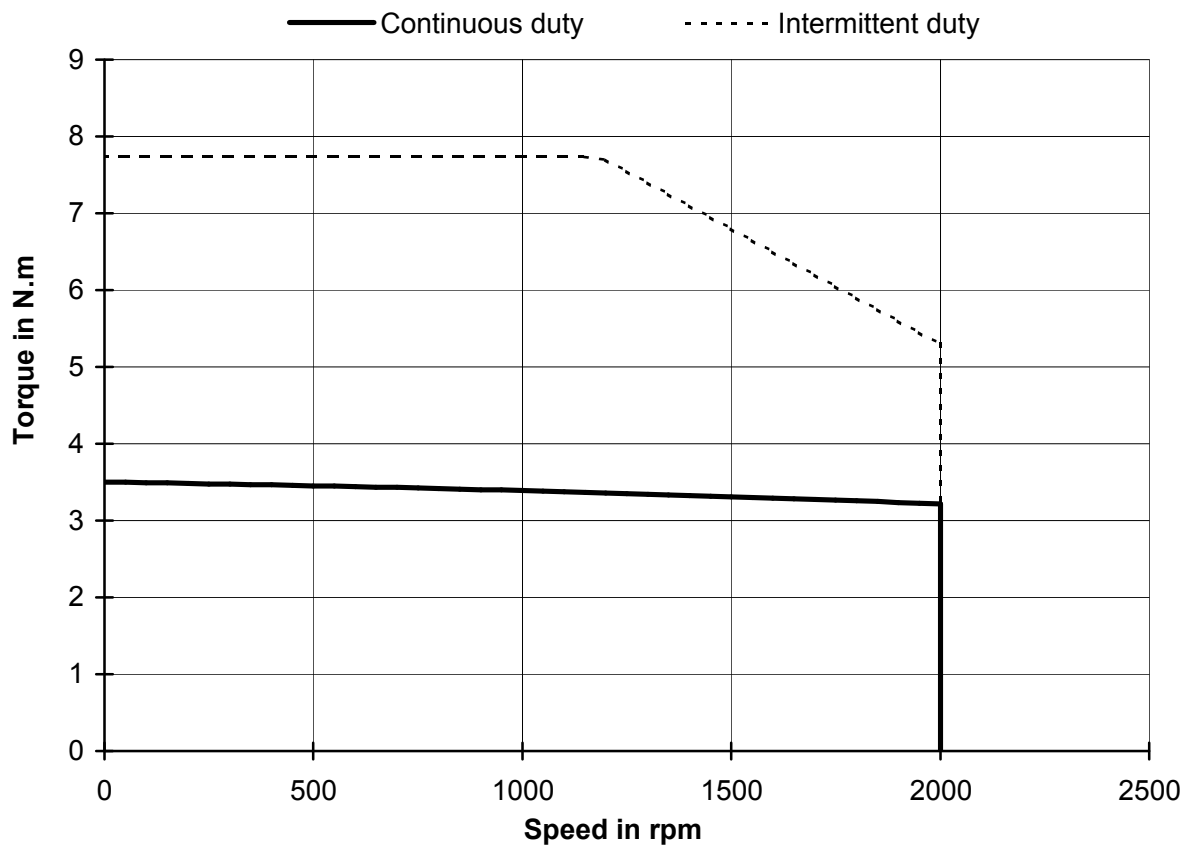


Low speed torque	<b>3.5</b>	N.m	M <sub>o</sub>
Max speed	<b>2000</b>	rpm	N
DC voltage supply when motor is loaded	<b>540</b>	V	Û
Permanent current at low speed	<b>1.75</b>	Â	Î <sub>o</sub>
Peak current	<b>4</b>	Â	Î <sub>maxi</sub>
Back emf constant at 1000 rpm (25°C)*	<b>251</b>	V	K <sub>e</sub>
Torque sensitivity	<b>2</b>	N.m/Â	K <sub>t</sub>
Winding resistance(25°C) *	<b>29.4</b>	Ω	R <sub>b</sub>
Winding inductance *	<b>131</b>	mH	L
Rotor inertia	<b>29</b>	kg.m <sup>2</sup> × 10 <sup>-5</sup>	J
Thermal time constant	<b>12</b>	min	T <sub>th</sub>
Motor mass	<b>5.8</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