

BRUSHLESS MOTOR  
**EX420EAP**  
 ELECTRONIC DRIVE  
**DIGIVEX 4/8 - 400**

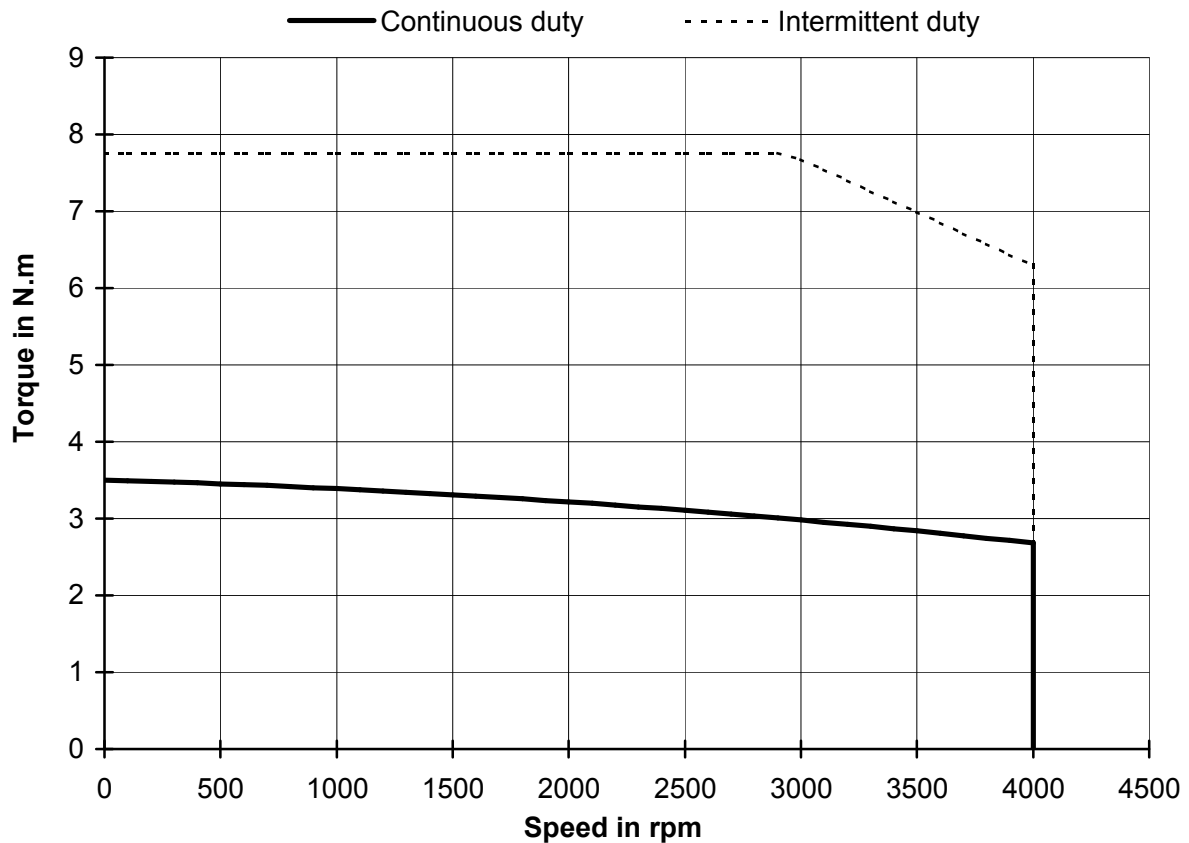


Low speed torque	<b>3.5</b>	N.m	$M_o$
Max speed	<b>4000</b>	rpm	N
DC voltage supply when motor is loaded	<b>540</b>	V	$\hat{U}$
Permanent current at low speed	<b>3.48</b>	$\hat{A}$	$\hat{I}_o$
Peak current	<b>8</b>	$\hat{A}$	$\hat{I}_{maxi}$
Back emf constant at 1000 rpm (25°C)*	<b>126</b>	V	$\hat{K}_e$
Torque sensitivity	<b>1.01</b>	N.m/ $\hat{A}$	$\hat{K}_t$
Winding resistance(25°C) *	<b>7.44</b>	$\Omega$	Rb
Winding inductance *	<b>33</b>	mH	L
Rotor inertia	<b>29</b>	kg.m <sup>2</sup> x 10 <sup>-5</sup>	J
Thermal time constant	<b>12</b>	min	Tth
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

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