

DC-BRUSHLESS MOTOR  
**HS820EV**  
 ELECTRONIC DRIVE  
**DIGIVEX 8/16 - 400**

**PARVEX**

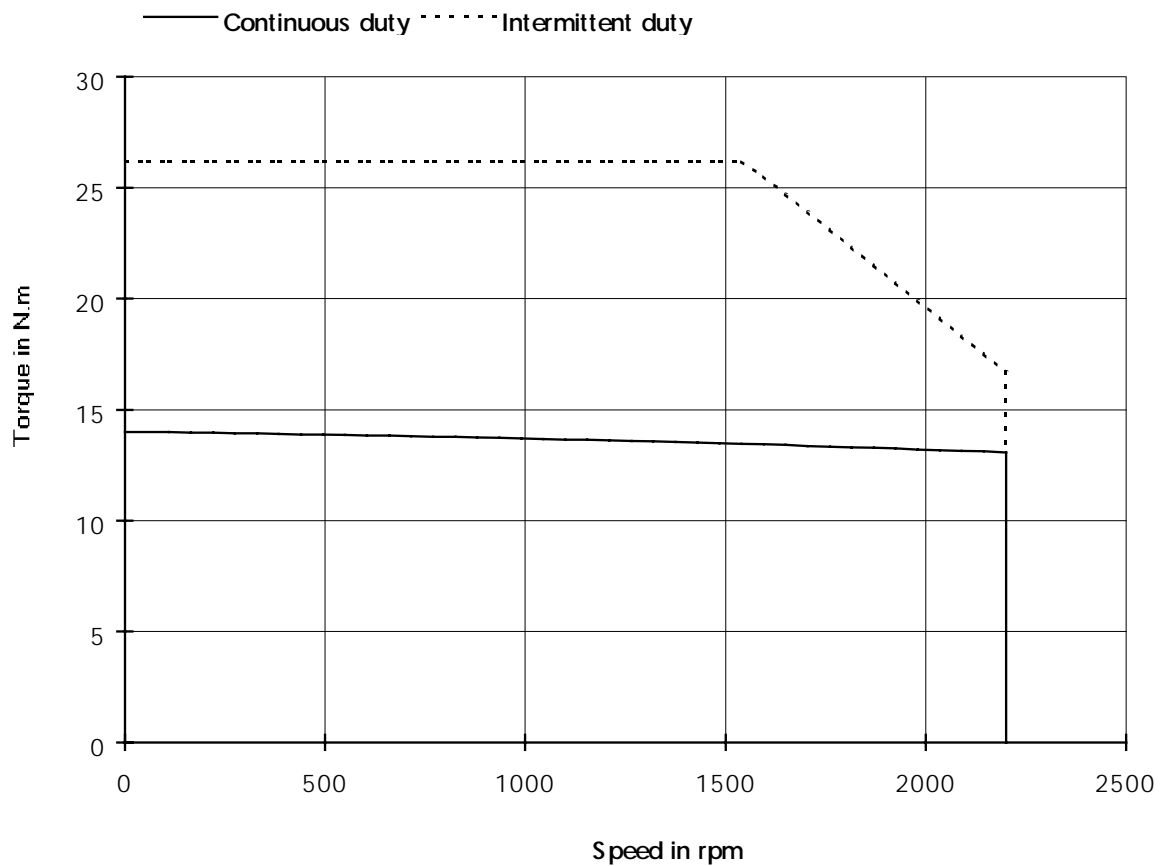
8 avenue du Lac / BP249  
 F-21007 DIJON Cedex

Low speed torque	<b>14</b>	<i>N.m</i>	$M_o$
Max speed	<b>2200</b>	<i>rpm</i>	$N$
DC voltage supply when motor is loaded	<b>540</b>	<i>V</i>	$\hat{U}$
Permanent current at low speed	<b>7.76</b>	$\hat{A}$	$\hat{I}_o$
Peak current	<b>16</b>	$\hat{A}$	$\hat{I}_{maxi}$
Back emf constant at 1000 rpm (25°C)*	<b>237</b>	<i>V</i>	$\hat{K}_e$
Torque sensitivity	<b>1.8</b>	<i>N.m/Ā</i>	$\hat{K}_t$
Winding resistance(25°C) *	<b>3.69</b>	$\Omega$	$R_b$
Winding inductance *	<b>47</b>	<i>mH</i>	$L$
Rotor inertia	<b>350</b>	<i>kg.m<sup>2</sup>.10<sup>-5</sup></i>	$J$
Thermal time constant	<b>40</b>	<i>min</i>	$T_{th}$
Motor mass	<b>14.6</b>	<i>kg</i>	$M$

All data are given in typical values under standard conditions

\* Phase to phase

Voltages and currents given in peak values



FICHE-005

Creation: 12 janv 1995

Edition: 17/nov/1998

HS820EV

.c