

BRUSHLESS MOTOR  
**EX820EAL**  
 ELECTRONIC DRIVE  
**DIGIVEX 30/60 - 230**

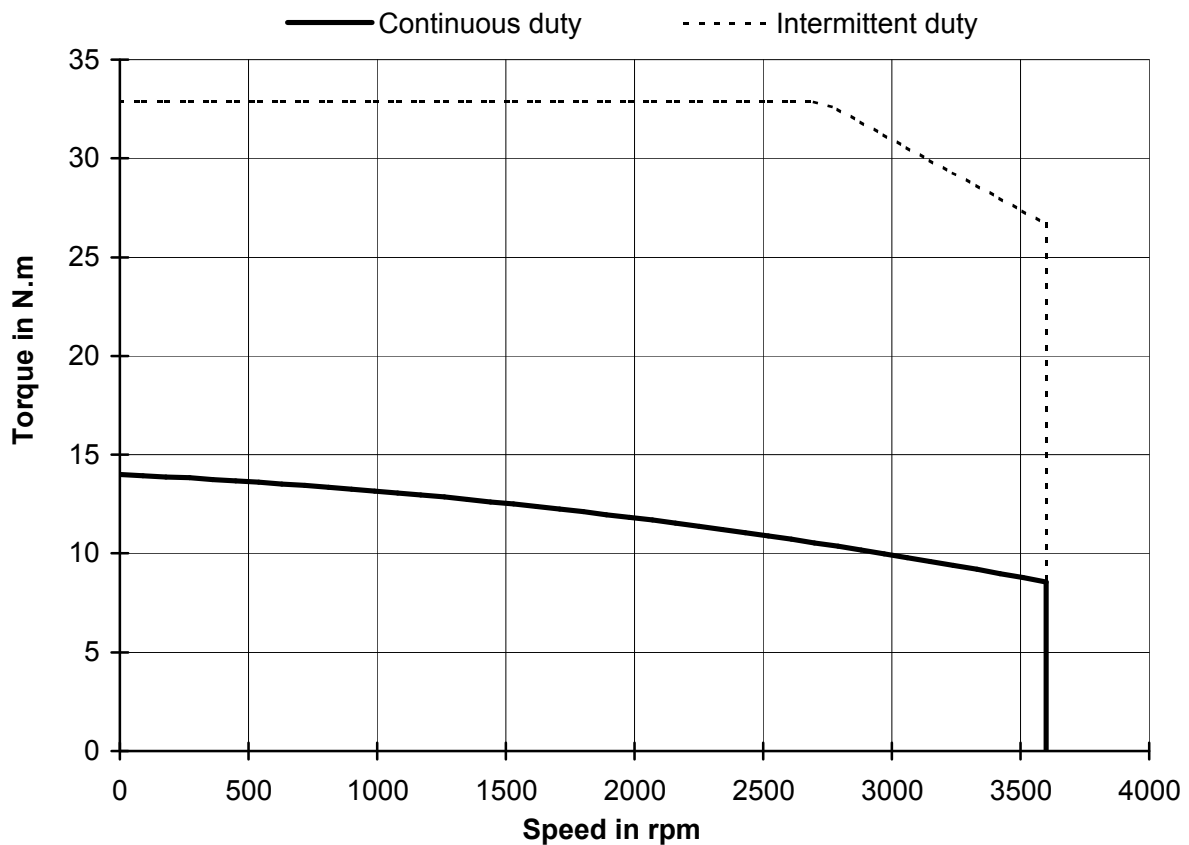


Low speed torque	<b>14</b>	N.m	M <sub>o</sub>
Max speed	<b>3600</b>	rpm	N
DC voltage supply when motor is loaded	<b>310</b>	V	Û
Permanent current at low speed	<b>21.9</b>	Â	Î <sub>o</sub>
Peak current	<b>54.8</b>	Â	Î <sub>maxi</sub>
Back emf constant at 1000 rpm (25°C)*	<b>80.4</b>	V	K <sub>e</sub>
Torque sensitivity	<b>0.639</b>	N.m/Â	K <sub>t</sub>
Winding resistance(25°C) *	<b>0.379</b>	Ω	R <sub>b</sub>
Winding inductance *	<b>3.35</b>	mH	L
Rotor inertia	<b>320</b>	kg.m <sup>2</sup> × 10 <sup>-5</sup>	J
Thermal time constant	<b>34</b>	min	T <sub>th</sub>
Motor mass	<b>24</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