

**DC-BRUSHLESS MOTOR  
HWA50DF  
ELECTRONIC DRIVE  
DIGIVEX 100/120 - 460**

**PARVEX**

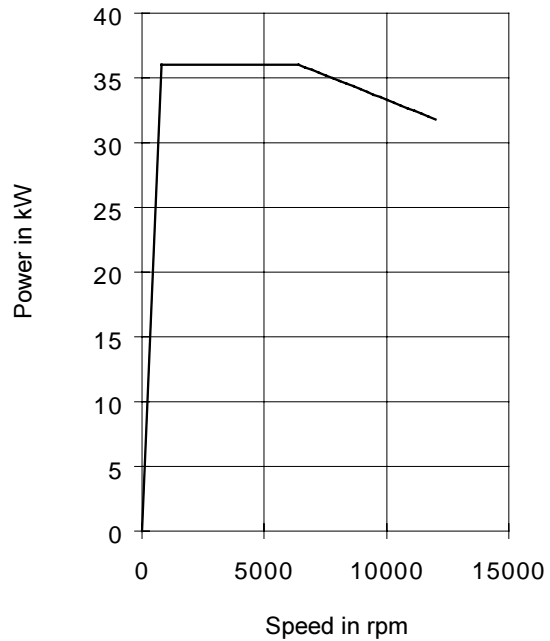
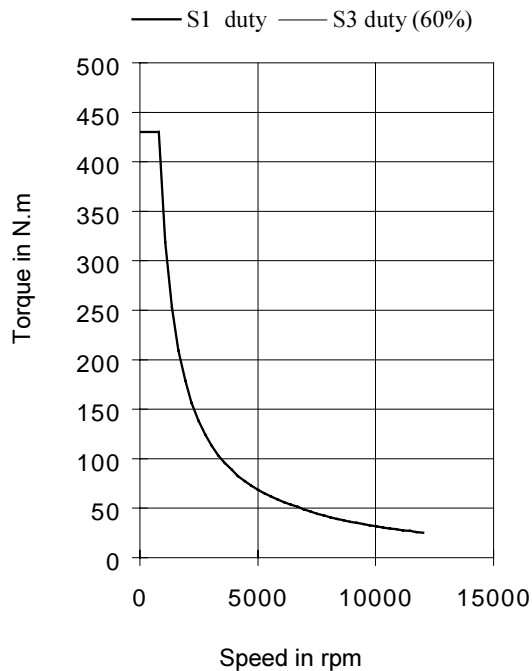
8 avenue du Lac / BP249  
F-21007 DIJON Cedex

<i>S1 power</i>	<b>36</b>	<i>kW</i>	<i>Ps1</i>
<i>S3 power</i>	-	<i>kW</i>	<i>Ps3</i>
<i>Low speed torque</i>	<b>430</b>	<i>N.m</i>	<i>M<sub>o</sub></i>
<i>Low speed S3 torque</i>	-	<i>N.m</i>	<i>M<sub>o</sub> S3</i>
<i>Base speed</i>	<b>800</b>	<i>rpm</i>	<i>Nb</i>
<i>Max speed</i>	<b>12000</b>	<i>rpm</i>	<i>N</i>
<i>DC voltage supply when motor is loaded</i>	<b>610</b>	<i>V</i>	<i>Ū</i>
<i>Permanent current at low speed</i>	<b>96.1</b>	<i>Ā</i>	<i>Ī<sub>o</sub></i>
<i>S3 current at low speed</i>	-	<i>Ā</i>	<i>Ī<sub>o</sub> S3</i>
<i>Winding resistance(25°C) *</i>	<b>0.566</b>	<i>Ω</i>	<i>R<sub>b</sub></i>
<i>Rotor inertia</i>	<b>0.235</b>	<i>kg.m<sup>2</sup></i>	<i>J</i>
<i>Thermal time constant</i>	<b>4</b>	<i>min</i>	<i>T<sub>th</sub></i>
<i>Motor mass</i>	<b>120</b>	<i>kg</i>	<i>M</i>
<i>Cooling water flow (T<sub>max</sub> = 25 °C)</i>	<b>25</b>	<i>l/min</i>	

All data are given in typical values under standard conditions

\* Phase to phase

Voltagés and currents given in peak values



FICHELV-008

Creation: 27 févr 1998

Edition: 17/juin/1999

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