

DC-BRUSHLESS MOTOR  
**HW635CI**  
 ELECTRONIC DRIVE  
**DIGIVEX 32/64 - 400**

**PARVEX**

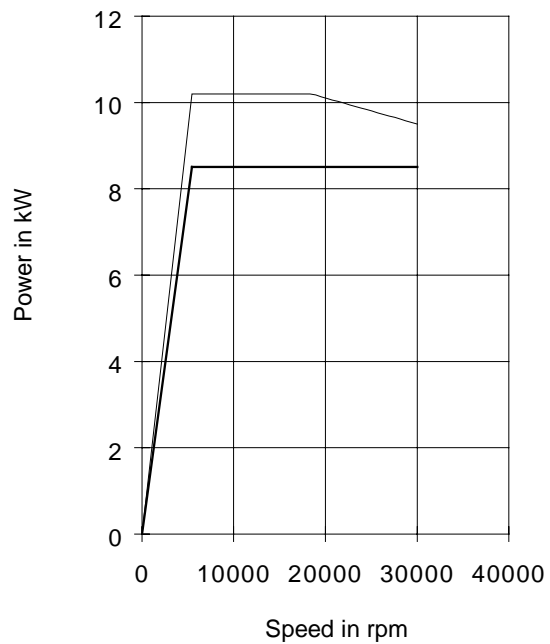
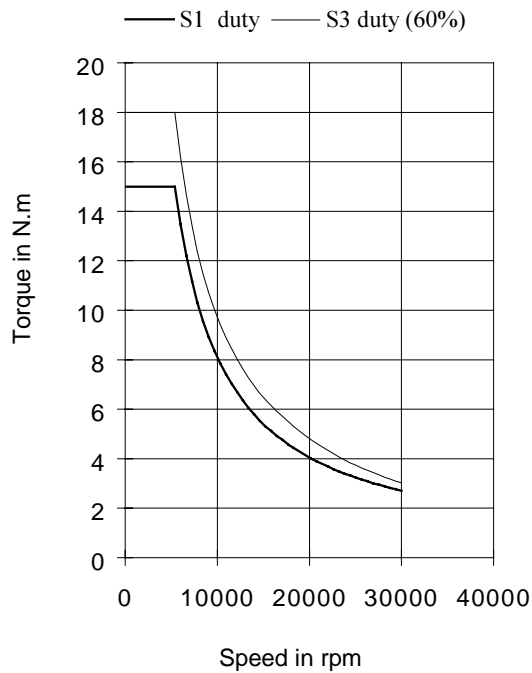
8 avenue du Lac / BP249  
 F-21007 DIJON Cedex

|   |              |                         |                         |
|---|--------------|-------------------------|-------------------------|
| <i>S1 power</i>                               | <b>8.5</b>   | <i>kW</i>               | <i>Ps1</i>              |
| <i>S3 power</i>                               | <b>10</b>    | <i>kW</i>               | <i>Ps3</i>              |
| <i>Low speed torque</i>                       | <b>15</b>    | <i>N.m</i>              | <i>M<sub>o</sub></i>    |
| <i>Low speed S3 torque</i>                    | <b>18</b>    | <i>N.m</i>              | <i>M<sub>o</sub> S3</i> |
| <i>Base speed</i>                             | <b>5410</b>  | <i>rpm</i>              | <i>Nb</i>               |
| <i>Max speed</i>                              | <b>30000</b> | <i>rpm</i>              | <i>N</i>                |
| <i>DC voltage supply when motor is loaded</i> | <b>540</b>   | <i>V</i>                | <i>Ū</i>                |
| <i>Permanent current at low speed</i>         | <b>25.7</b>  | <i>Â</i>                | <i>Î<sub>o</sub></i>    |
| <i>S3 current at low speed</i>                | <b>30.9</b>  | <i>Â</i>                | <i>Î<sub>o</sub> S3</i> |
| <i>Winding resistance(25°C) *</i>             | <b>0.96</b>  | <i>Ω</i>                | <i>R<sub>b</sub></i>    |
| <i>Rotor inertia</i>                          | <b>0.003</b> | <i>kg.m<sup>2</sup></i> | <i>J</i>                |
| <i>Thermal time constant</i>                  | <b>1.5</b>   | <i>min</i>              | <i>Tth</i>              |
| <i>Motor mass</i>                             | <b>11</b>    | <i>kg</i>               | <i>M</i>                |
| <i>Cooling water flow (Tmax = 25 °C)</i>      | <b>5</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: 19 avr 1995

Edition: 17/juin/1999

HW635CI

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