

DC-BRUSHLESS MOTOR
NX420EAV
 ELECTRONIC DRIVE
DIGIVEX 2/4 - 460

PARVEX

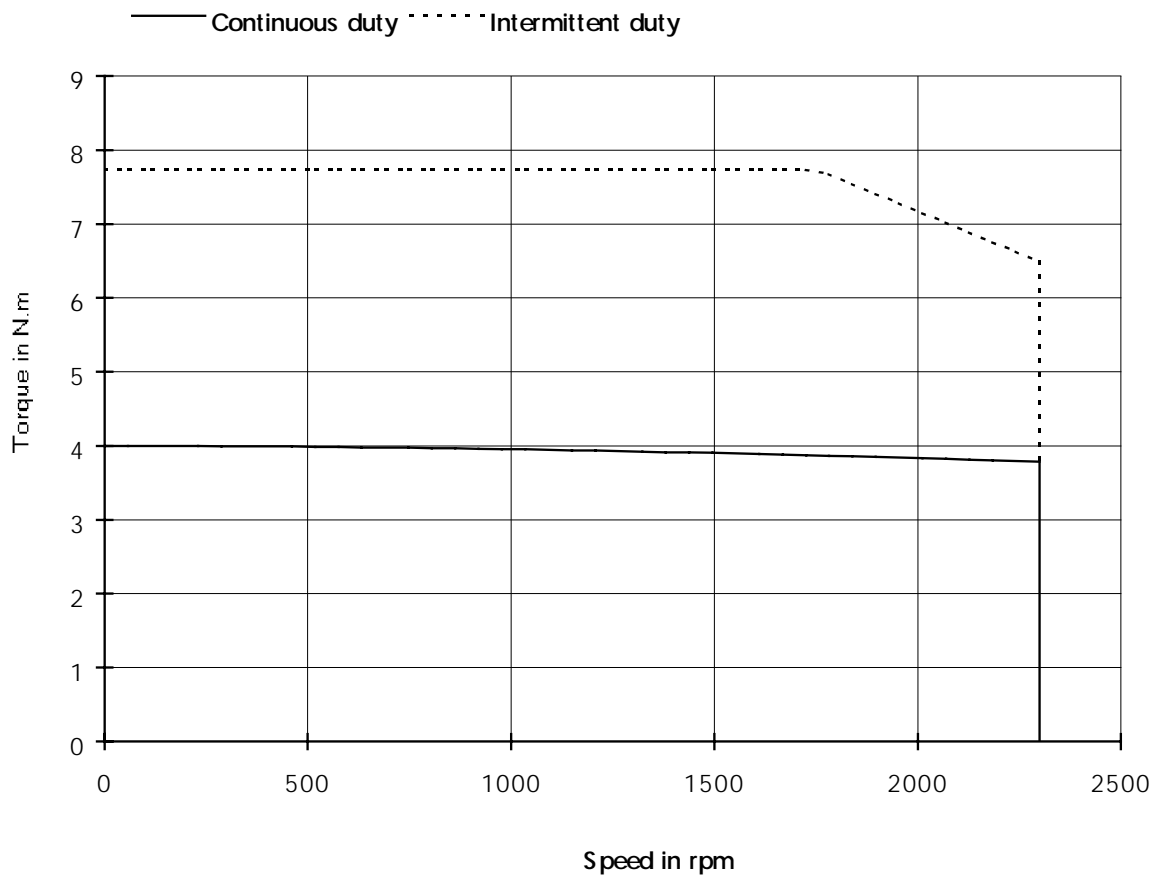
8 avenue du Lac / BP249
 F-21007 DIJON Cedex

| | | | |
|--|-------------|---|------------------|
| Low speed torque | 4 | <i>N.m</i> | M_o |
| Max speed | 2300 | <i>rpm</i> | N |
| DC voltage supply when motor is loaded | 620 | <i>V</i> | \hat{U} |
| Permanent current at low speed | 2 | \hat{A} | \hat{I}_o |
| Peak current | 4 | \hat{A} | \hat{I}_{maxi} |
| Back emf constant at 1000 rpm (25°C)* | 251 | <i>V</i> | \hat{K}_e |
| Torque sensitivity | 2 | <i>N.m/Ā</i> | \hat{K}_t |
| Winding resistance(25°C) * | 29.4 | Ω | R_b |
| Winding inductance * | 131 | <i>mH</i> | L |
| Rotor inertia | 29 | <i>kg.m².10⁻⁵</i> | J |
| Thermal time constant | 12 | <i>min</i> | T_{th} |
| Motor mass | 3.8 | <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-007

Creation: 16 mai 2000

Edition: 17/mai/2000

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