

**BRUSHLESS MOTORS**  
**NX820EAX**  
**ELECTRONIC DRIVE (1)**  
**DIGIVEX 7.5/15 et DIGIVEX 8/16**  
(230 V) (400 V)



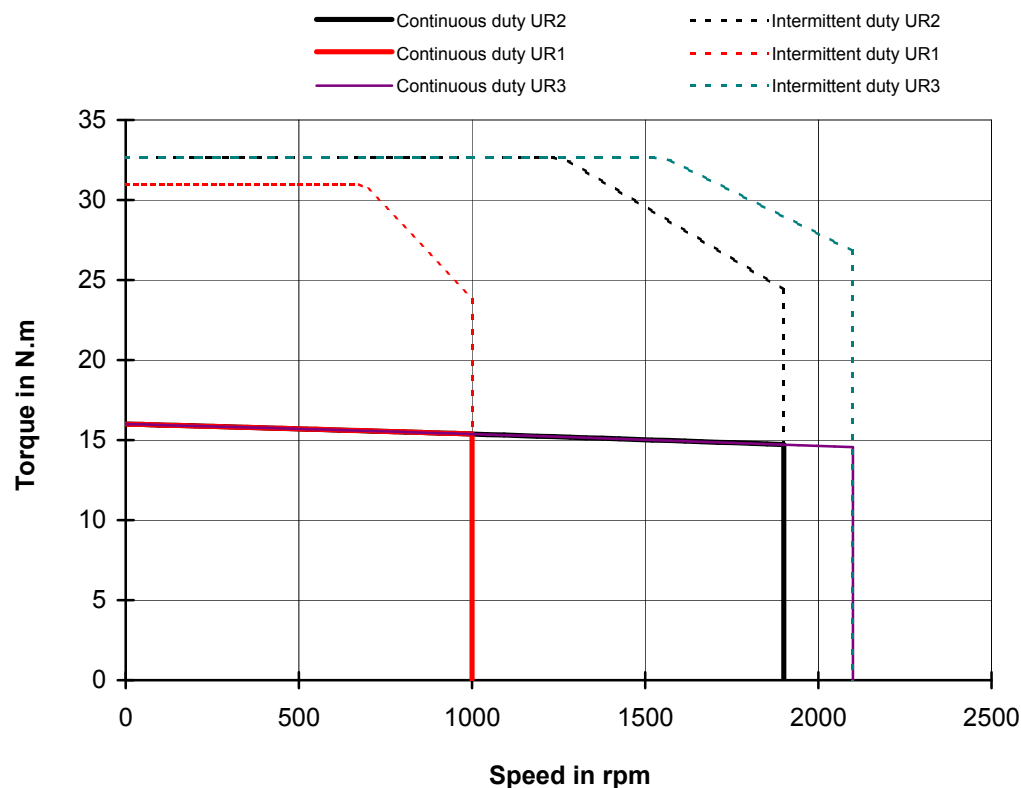
|                                       |             |                        |       |       |       |
|---------------------------------------|-------------|------------------------|-------|-------|-------|
| Torque at low speed                   | $M_o$       | Nm                     | 16    |       |       |
| Permanent current at low speed        | $I_o$       | $A_{rms}$              | 5.16  |       |       |
| Peak torque                           | $M_p$       | Nm                     | 50    |       |       |
| Current for the peak torque           | $I_p$       | $A_{rms}$              | 20.3  |       |       |
| Back emf constant at 1000 rpm (25°C)* | $K_e$       | $V_{rms}$              | 193   |       |       |
| Torque sensitivity                    | $K_t$       | $Nm/A_{rms}$           | 3.1   |       |       |
| Winding resistance (25°C)*            | $R_b$       | $\Omega$               | 4.53  |       |       |
| Winding inductance*                   | $L$         | mH                     | 38.7  |       |       |
| Rotor inertia                         | $J$         | $kgm^2 \times 10^{-5}$ | 320   |       |       |
| Thermal time constant                 | $T_{th}$    | min                    | 34    |       |       |
| Motor mass                            | $M$         | kg                     | 13    |       |       |
| Voltage of the mains                  | UR1 UR2 UR3 | $V_{rms}$              | 230   | 400   | 480   |
| Rated speed                           | Nn1 Nn2 Nn3 | rpm                    | 1000  | 1900  | 2100  |
| Rated torque                          | Mn1 Mn2 Mn3 | Nm                     | 15.38 | 14.72 | 14.56 |
| Rated current                         | In1 In2 In3 | $A_{rms}$              | 4.99  | 4.79  | 4.75  |
| Rated power                           | Pn1 Pn2 Pn3 | W                      | 1610  | 2930  | 3200  |

All data are given in typical values under standard conditions

\* Phase to phase

(1) Please check the availability of this drive with 480 V

Voltages and currents are given in rms values



Characteristics are given for an optimal drive of the motor

FICHE-009

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NX820EAX

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