

BRUSHLESS MOTOR
EX420EAP
 ELECTRONIC DRIVE
DIGIVEX 4/8 - 230

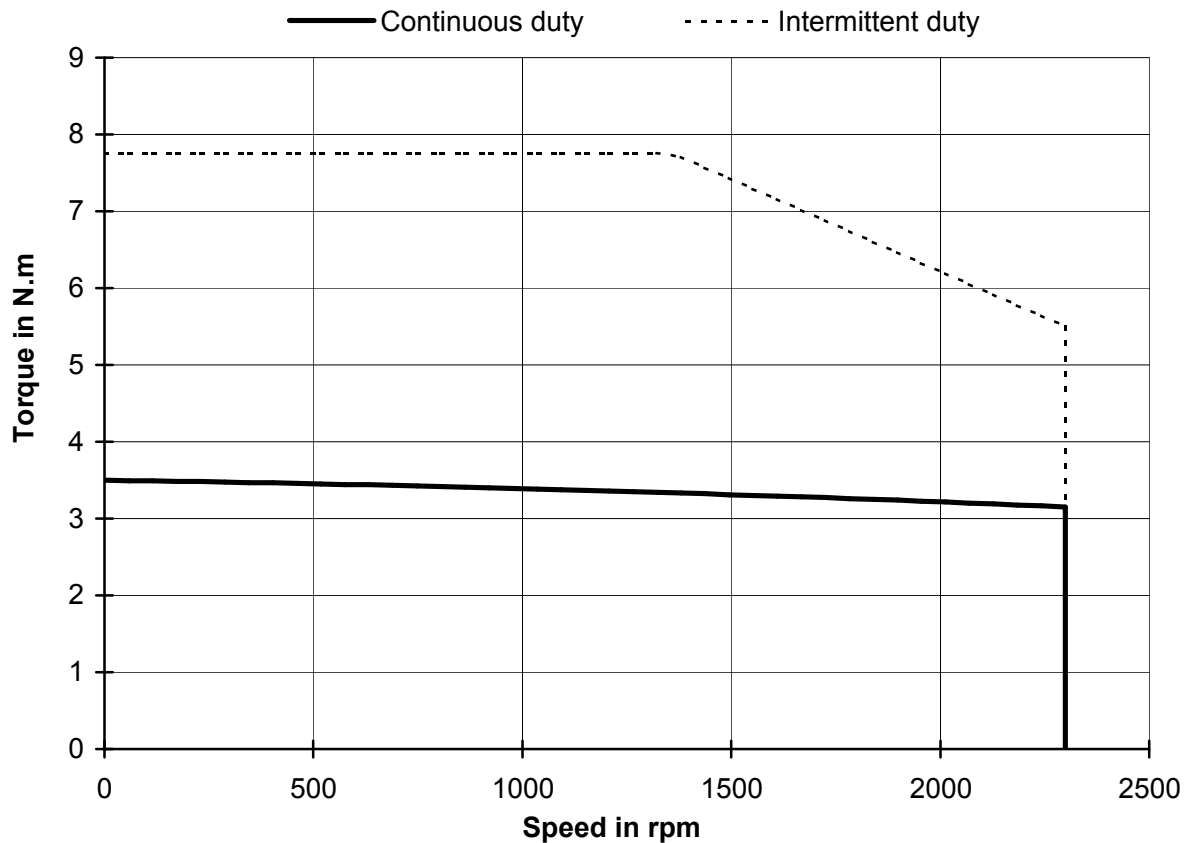


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|--|-------------|--------------------------------------|------------------|
| Low speed torque | 3.5 | N.m | M_o |
| Max speed | 2300 | rpm | N |
| DC voltage supply when motor is loaded | 310 | V | \hat{U} |
| Permanent current at low speed | 3.48 | \hat{A} | \hat{I}_o |
| Peak current | 8 | \hat{A} | \hat{I}_{maxi} |
| Back emf constant at 1000 rpm (25°C)* | 126 | V | \hat{K}_e |
| Torque sensitivity | 1.01 | N.m/ \hat{A} | \hat{K}_t |
| Winding resistance(25°C) * | 7.44 | Ω | Rb |
| Winding inductance * | 33 | mH | L |
| Rotor inertia | 29 | kg.m ² x 10 ⁻⁵ | J |
| Thermal time constant | 12 | min | Tth |
| Motor mass | 5.8 | 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

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