

RATED DATA

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|----------------|-----------------|
| Motor type | NN4-0510-30-560 |
| Winding number | 01-00709 |

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|---------------------|-----------|------------------------|
| Rated Speed | n_n | 3000 min ⁻¹ |
| DC Bus Voltage | U_{dc} | 560 V |
| Nominal AC Voltage | U_n | 380 V |
| Rated Motor Voltage | U_m | 276 V |
| Rated Torque | M_n | 4,2 Nm |
| Rated AC Current | I_n | 3,9 A |
| Stall Torque | M_o | 5,1 Nm |
| Stall AC Current | I_o | 3,8 A |
| Peak Torque | M_{max} | 15,3 Nm |
| Peak Current | I_{max} | 17,4 A |
| Max. Speed | n_{max} | 9000 min ⁻¹ |
| EMF Constant | K_E | 81,0 V/1000 |
| Torque Constant | K_T | 1,34 Nm/A |
| Terminal Resistance | R_{2ph} | 4,0 Ω |
| Terminal Inductance | L_{2ph} | 21,7 mH |
| Number of poles | $2p$ | 10 |

| | | |
|-------------------------|-------|------------------------|
| No Load Speed | n_o | 4650 min ⁻¹ |
| Torque at I_{max}/U_n | M_z | 14,7 Nm |
| Speed at I_{max}/U_n | n_z | 1590 min ⁻¹ |
| Max. Torque at n_n | M_x | 8,2 Nm |

| | | |
|-----------------------|---------------|------------------------|
| El. Time Constant | τ_{el} | 5,5 ms |
| Mech. Time Constant | τ_{mech} | 0,78 ms |
| Thermal Time Constant | τ_{th} | 25 min |
| Rotor Inertia | J | 2,04 kgcm ² |

Torque/speed curves

