

RATED DATA

| | |
|----------------|------------------------|
| Motor type | NN2-0095-45-320 |
| Winding number | 01-00745 |

| | | |
|---------------------|-----------|-------------------------|
| Rated Speed | n_n | 4500 min ⁻¹ |
| DC Bus Voltage | U_{dc} | 320 V |
| Nominal AC Voltage | U_n | 220 V |
| Rated Motor Voltage | U_m | 172 V |
| Rated Torque | M_n | 0,85 Nm |
| Rated AC Current | I_n | 1,70 A |
| Stall Torque | M_o | 0,95 Nm |
| Stall AC Current | I_o | 1,82 A |
| Peak Torque | M_{max} | 3,8 Nm |
| Peak Current | I_{max} | 8,4 A |
| Max. Speed | n_{max} | 12000 min ⁻¹ |
| EMF Constant | K_E | 31,5 V/1000 |
| Torque Constant | K_T | 0,52 Nm/A |
| Terminal Resistance | R_{2ph} | 13,1 Ω |
| Terminal Inductance | L_{2ph} | 19,0 mH |
| Number of poles | $2p$ | 6 |

| | | |
|-------------------------|-------|------------------------|
| No Load Speed | n_o | 6950 min ⁻¹ |
| Torque at I_{max}/U_n | M_z | 3,8 Nm |
| Speed at I_{max}/U_n | n_z | 2230 min ⁻¹ |
| Max. Torque at n_n | M_x | 2,0 Nm |

| | | |
|-----------------------|---------------|------------------------|
| El. Time Constant | τ_{el} | 1,5 ms |
| Mech. Time Constant | τ_{mech} | 0,92 ms |
| Thermal Time Constant | τ_{th} | 18,0 min |
| Rotor Inertia | J | 0,11 kgcm ² |

Torque/speed curves

