

## RATED DATA

|                |                |
|----------------|----------------|
| Motor type     | T4-0950-30-560 |
| Winding number | 01-00164       |

|                     |           |                         |
|---------------------|-----------|-------------------------|
| Rated Speed         | $n_n$     | 3000 min <sup>-1</sup>  |
| DC Bus Voltage      | $U_{dc}$  | 560 V                   |
| Nominal AC Voltage  | $U_n$     | 330 V                   |
| Rated Motor Voltage | $U_m$     | 281 V                   |
| Rated Power         | $P_n$     | 2,67 kW                 |
| Rated Torque        | $M_n$     | 8,5 Nm                  |
| Rated AC Current    | $I_n$     | 6,2 A                   |
| Stall Torque        | $M_o$     | 9,5 Nm                  |
| Stall AC Current    | $I_o$     | 6,6 A                   |
| Peak Torque         | $M_{max}$ | 38 Nm                   |
| Peak Current        | $I_{max}$ | 39,6 A                  |
| Max. Speed          | $n_{max}$ | 12000 min <sup>-1</sup> |
| EMF Constant        | $K_E$     | 82,5 V/1000             |
| Torque Constant     | $K_T$     | 1,365 Nm/A              |
| Terminal Resistance | $R_{2ph}$ | 1,65 $\Omega$           |
| Terminal Inductance | $L_{2ph}$ | 11 mH                   |
| Number of poles     | 2p        | 6                       |

|                         |       |                        |
|-------------------------|-------|------------------------|
| No Load Speed           | $n_o$ | 3790 min <sup>-1</sup> |
| Torque at $I_{max}/U_n$ | $M_z$ | 37,7 Nm                |
| Speed at $I_{max}/U_n$  | $n_z$ | 1670 min <sup>-1</sup> |
| Max. Torque at $n_n$    | $M_x$ | 18,5 Nm                |

|                          |            |                        |
|--------------------------|------------|------------------------|
| El. Time Constant        | $T_{el}$   | 6,7 ms                 |
| Mech. Time Constant      | $T_{mech}$ | 0,93 ms                |
| Thermal Time Constant    | $T_{th}$   | 68 min                 |
| Rotor Inertia            | $J_r$      | 6,05 kgcm <sup>2</sup> |
| Brake Inertia            | $J_b$      | 0,54 kgcm <sup>2</sup> |
| Braking Torque           | $M_b$      | 9,00 Nm                |
| Mass motor *             | $m_m$      | 10,50 kg               |
| Mass motor incl. brake * | $m_{mb}$   | 11,30 kg               |

\* standard - resolver feedback and straight connectors

## Torque/speed curves

