

## RATED DATA

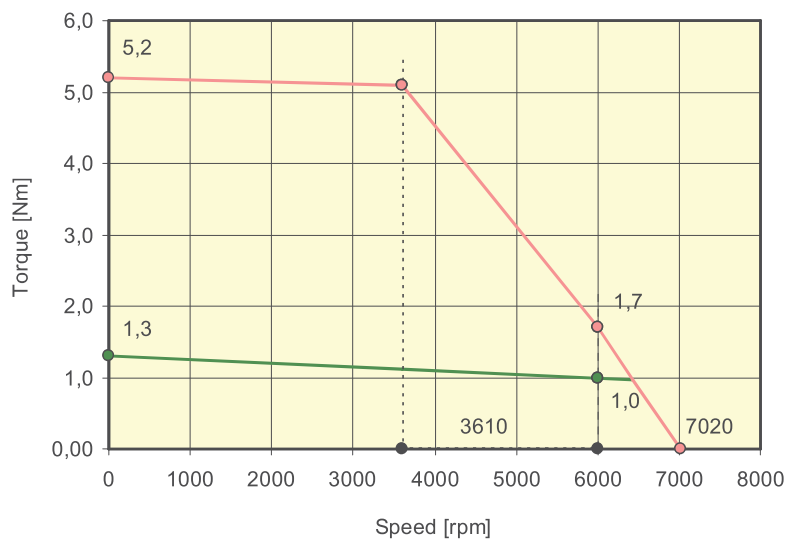
|                |                       |
|----------------|-----------------------|
| Motor type     | <b>T3-0130-60-560</b> |
| Winding number | <b>01-00111</b>       |

|                     |           |                         |
|---------------------|-----------|-------------------------|
| Rated Speed         | $n_n$     | 6000 $\text{min}^{-1}$  |
| DC Bus Voltage      | $U_{dc}$  | 560 V                   |
| Nominal AC Voltage  | $U_n$     | 330 V                   |
| Rated Motor Voltage | $U_m$     | 309 V                   |
| Rated Torque        | $M_n$     | 1,00 Nm                 |
| Rated AC Current    | $I_n$     | 1,40 A                  |
| Stall Torque        | $M_o$     | 1,30 Nm                 |
| Stall AC Current    | $I_o$     | 1,67 A                  |
| Peak Torque         | $M_{max}$ | 5,2 Nm                  |
| Peak Current        | $I_{max}$ | 7,2 A                   |
| Max. Speed          | $n_{max}$ | 12000 $\text{min}^{-1}$ |
| EMF Constant        | $K_E$     | 47,0 V/1000             |
| Torque Constant     | $K_T$     | 0,78 Nm/A               |
| Terminal Resistance | $R_{2ph}$ | 12,7 $\Omega$           |
| Terminal Inductance | $L_{2ph}$ | 21,5 mH                 |
| Number of poles     | $2p$      | 6                       |

|                         |       |                        |
|-------------------------|-------|------------------------|
| No Load Speed           | $n_o$ | 7020 $\text{min}^{-1}$ |
| Torque at $I_{max}/U_n$ | $M_z$ | 5,1 Nm                 |
| Speed at $I_{max}/U_n$  | $n_z$ | 3610 $\text{min}^{-1}$ |
| Max. Torque at $n_n$    | $M_x$ | 1,7 Nm                 |

|                       |            |                      |
|-----------------------|------------|----------------------|
| El. Time Constant     | $T_{el}$   | 1,7 ms               |
| Mech. Time Constant   | $T_{mech}$ | 2,4 ms               |
| Thermal Time Constant | $T_{th}$   | 30 min               |
| Rotor Inertia         | $J$        | 0,65 $\text{kgcm}^2$ |

**Torque/speed curves**



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