

RATED DATA

Motor type	T2-0040-45-560
Winding number	01-00065

Rated Speed	n_n	4500 min ⁻¹
DC Bus Voltage	U_{dc}	560 V
Nominal AC Voltage	U_n	330 V
Rated Motor Voltage	U_m	254 V
Rated Power	P_n	0,17 kW
Rated Torque	M_n	0,36 Nm
Rated AC Current	I_n	0,51 A
Stall Torque	M_o	0,4 Nm
Stall AC Current	I_o	0,54 A
Peak Torque	M_{max}	1,6 Nm
Peak Current	I_{max}	2,3 A
Max. Speed	n_{max}	12000 min ⁻¹
EMF Constant	K_E	45 V/1000
Torque Constant	K_T	0,74 Nm/A
Terminal Resistance	R_{2ph}	77 Ω
Terminal Inductance	L_{2ph}	61,5 mH
Number of poles	$2p$	6
No Load Speed	n_o	7330 min ⁻¹
Torque at I_{max}/U_n	M_z	1,58 Nm
Speed at I_{max}/U_n	n_z	2210 min ⁻¹
Max. Torque at n_n	M_x	0,87 Nm
El. Time Constant	T_{el}	0,80 ms
Mech. Time Constant	T_{mech}	1,9 ms
Thermal Time Constant	T_{th}	15,0 min
Rotor Inertia	J_r	0,08 kgcm ²
Brake Inertia	J_b	0,068 kgcm ²
Braking Torque	M_b	2,00 Nm
Mass motor *	m_m	1,06 kg
Mass motor incl. brake *	m_{mb}	1,21 kg

* standard - resolver feedback and straight connectors

Torque/speed curves

