

RATED DATA

Motor type	T5-1050-60-560
Winding number	01-00600

Rated Speed	n_n	6000 min ⁻¹
DC Bus Voltage	U_{dc}	560 V
Nominal AC Voltage	U_n	330 V
Rated Motor Voltage	U_m	292 V
Rated Power	P_n	2,51 kW
Rated Torque	M_n	4 Nm
Rated AC Current	I_n	5,47 A
Stall Torque	M_o	10,5 Nm
Stall AC Current	I_o	13,4 A
Peak Torque	M_{max}	31,5 Nm
Peak Current	I_{max}	66,6 A
Max. Speed	n_{max}	9000 min ⁻¹
EMF Constant	K_E	47,5 V/1000
Torque Constant	K_T	0,79 Nm/A
Terminal Resistance	R_{2ph}	0,51 Ω
Terminal Inductance	L_{2ph}	4,6 mH
Number of poles	$2p$	6
No Load Speed	n_o	6940 min ⁻¹
Torque at I_{max}/U_n	M_z	31,3 Nm
Speed at I_{max}/U_n	n_z	2890 min ⁻¹
Max. Torque at n_n	M_x	12,23 Nm
El. Time Constant	T_{el}	9,0 ms
Mech. Time Constant	T_{mech}	0,89 ms
Thermal Time Constant	T_{th}	50 min
Rotor Inertia	J_r	6,20 kgcm ²
Brake Inertia	J_b	11,8 kgcm ²
Braking Torque	M_b	18,00 Nm
Mass motor *	m_m	4,50 kg
Mass motor incl. brake *	m_{mb}	3,00 kg

* standard - resolver feedback and straight connectors

Torque/speed curves

