

RATED DATA

Motor type	T4-0750-30-560
Winding number	01-00631

Rated Speed	n_n	3000 min^{-1}
DC Bus Voltage	U_{dc}	560 V
Nominal AC Voltage	U_n	350 V
Rated Motor Voltage	U_m	354 V
Rated Power	P_n	2,01 kW
Rated Torque	M_n	6,4 Nm
Rated AC Current	I_n	3,76 A
Stall Torque	M_o	7,5 Nm
Stall AC Current	I_o	4,2 A
Peak Torque	M_{max}	30 Nm
Peak Current	I_{max}	25,2 A
Max. Speed	n_{max}	12000 min^{-1}
EMF Constant	K_E	108 V/1000
Torque Constant	K_T	1,79 Nm/A
Terminal Resistance	R_{2ph}	3,99 Ω
Terminal Inductance	L_{2ph}	25,7 mH
Number of poles	$2p$	6

No Load Speed	n_o	3230 min^{-1}
Torque at I_{max}/U_n	M_z	29,77 Nm
Speed at I_{max}/U_n	n_z	1200 min^{-1}
Max. Torque at n_n	M_x	5,75 Nm

El. Time Constant	T_{el}	6,4 ms
Mech. Time Constant	T_{mech}	0,90 ms
Thermal Time Constant	T_{th}	66 min
Rotor Inertia	J_r	4,15 kgcm^2
Brake Inertia	J_b	0,6 kgcm^2
Braking Torque	M_b	9,00 Nm
Mass motor *	m_m	7,70 kg
Mass motor incl. brake *	m_{mb}	8,50 kg

* standard - resolver feedback and straight connectors

Torque/speed curves

