

RATED DATA

Motor type	T7-2700-30-560
Winding number	01-00384

Rated Speed	n_n	3000 min ⁻¹
DC Bus Voltage	U_{dc}	560 V
Nominal AC Voltage	U_n	330 V
Rated Motor Voltage	U_m	318 V
Rated Power	P_n	6,60 kW
Rated Torque	M_n	21 Nm
Rated AC Current	I_n	13,45 A
Stall Torque	M_o	27 Nm
Stall AC Current	I_o	16 A
Peak Torque	M_{max}	81 Nm
Peak Current	I_{max}	62,4 A
Max. Speed	n_{max}	6000 min ⁻¹
EMF Constant	K_E	102 V/1000
Torque Constant	K_T	1,69 Nm/A
Terminal Resistance	R_{2ph}	0,43 Ω
Terminal Inductance	L_{2ph}	7,5 mH
Number of poles	$2p$	6

No Load Speed	n_o	3230 min ⁻¹
Torque at I_{max}/U_n	M_z	79,33 Nm
Speed at I_{max}/U_n	n_z	2280 min ⁻¹
Max. Torque at n_n	M_x	35,05 Nm

El. Time Constant	T_{el}	17,4 ms
Mech. Time Constant	T_{mech}	0,94 ms
Thermal Time Constant	T_{th}	60 min
Rotor Inertia	J_r	36,10 kgcm ²
Brake Inertia	J_b	5,56 kgcm ²
Braking Torque	M_b	36,00 Nm
Mass motor *	m_m	23,50 kg
Mass motor incl. brake *	m_{mb}	26,80 kg

* standard - resolver feedback and straight connectors

Torque/speed curves

