

RATED DATA

Motor type	T5-1700-30-560
Winding number	01-00191

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	342 V
Rated Power	P_n	4,55 kW
Rated Torque	M_n	14,5 Nm
Rated AC Current	I_n	8,6 A
Stall Torque	M_o	17 Nm
Stall AC Current	I_o	9,9 A
Peak Torque	M_{max}	51 Nm
Peak Current	I_{max}	49,2 A
Max. Speed	n_{max}	9000 min ⁻¹
EMF Constant	K_E	104 V/1000
Torque Constant	K_T	1,72 Nm/A
Terminal Resistance	R_{2ph}	1,26 Ω
Terminal Inductance	L_{2ph}	13,3 mH
Number of poles	$2p$	6
No Load Speed	n_o	3370 min ⁻¹
Torque at I_{max}/U_n	M_z	50 Nm
Speed at I_{max}/U_n	n_z	1350 min ⁻¹
Max. Torque at n_n	M_x	16,7 Nm
El. Time Constant	T_{el}	10,6 ms
Mech. Time Constant	T_{mech}	0,70 ms
Thermal Time Constant	T_{th}	60 min
Rotor Inertia	J_r	9,50 kgcm ²
Brake Inertia	J_b	1,66 kgcm ²
Braking Torque	M_b	18,00 Nm
Mass motor *	m_m	13,70 kg
Mass motor incl. brake *	m_{mb}	15,50 kg

* standard - resolver feedback and straight connectors

Torque/speed curves

