

RATED DATA

Motor type	T8-1150-30-560
Winding number	01-00408

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	334 V
Rated Power	P_n	15,71 kW
Rated Torque	M_n	50 Nm
Rated AC Current	I_n	29,34 A
Stall Torque	M_o	115 Nm
Stall AC Current	I_o	63,2 A
Peak Torque	M_{max}	345 Nm
Peak Current	I_{max}	246,5 A
Max. Speed	n_{max}	3600 min ⁻¹
EMF Constant	K_E	110 V/1000
Torque Constant	K_T	1,82 Nm/A
Terminal Resistance	R_{2ph}	0,047 Ω
Terminal Inductance	L_{2ph}	1,5 mH
Number of poles	$2p$	6
No Load Speed	n_o	3180 min ⁻¹
Torque at I_{max}/U_n	M_z	341,67 Nm
Speed at I_{max}/U_n	n_z	2110 min ⁻¹
Max. Torque at n_n	M_x	128,33 Nm
El. Time Constant	T_{el}	32 ms
Mech. Time Constant	T_{mech}	0,47 ms
Thermal Time Constant	T_{th}	90 min
Rotor Inertia	J_r	190,10 kgcm ²
Brake Inertia	J_b	98,5 kgcm ²
Braking Torque	M_b	145,00 Nm
Mass motor *	m_m	40,05 kg
Mass motor incl. brake *	m_{mb}	26,70 kg

* standard - resolver feedback and straight connectors

Torque/speed curves

