

RATED DATA

Motor type	NN7-5000-30-560
Winding number	01-00860

Rated Speed	n_n	3000 min ⁻¹
DC Bus Voltage	U_{dc}	560 V
Nominal AC Voltage	U_n	380 V
Rated Motor Voltage	U_m	265 V
Rated Torque	M_n	30,0 Nm
Rated AC Current	I_n	24,4 A
Stall Torque	M_o	50 Nm
Stall AC Current	I_o	31,5 A
Peak Torque	M_{max}	150 Nm
Peak Current	I_{max}	109 A
Max. Speed	n_{max}	6000 min ⁻¹
EMF Constant	K_E	96,0 V/1000
Torque Constant	K_T	1,59 Nm/A
Terminal Resistance	R_{2ph}	0,13 Ω
Terminal Inductance	L_{2ph}	2,6 mH
Number of poles	2p	10

No Load Speed	n_o	3950 min ⁻¹
Torque at I_{max}/U_n	M_z	147 Nm
Speed at I_{max}/U_n	n_z	2090 min ⁻¹
Max. Torque at n_n	M_x	90 Nm

El. Time Constant	T_{el}	20 ms
Mech. Time Constant	T_{mech}	0,79 ms
Thermal Time Constant	T_{th}	100 min
Rotor Inertia	J	88,00 kgcm ²

Torque/speed curves



