

RATED DATA

Motor type	NN5-2000-30-560
Winding number	01-00733

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	297 V
Rated Torque	M_n	16,0 Nm
Rated AC Current	I_n	11,5 A
Stall Torque	M_o	20,0 Nm
Stall AC Current	I_o	11,6 A
Peak Torque	M_{max}	60 Nm
Peak Current	I_{max}	40 A
Max. Speed	n_{max}	9000 min ⁻¹
EMF Constant	K_E	104,0 V/1000
Torque Constant	K_T	1,72 Nm/A
Terminal Resistance	R_{2ph}	0,72 Ω
Terminal Inductance	L_{2ph}	6,3 mH
Number of poles	$2p$	10

No Load Speed	n_o	3650 min ⁻¹
Torque at I_{max}/U_n	M_z	59 Nm
Speed at I_{max}/U_n	n_z	2140 min ⁻¹
Max. Torque at n_n	M_x	33 Nm

El. Time Constant	τ_{el}	8,8 ms
Mech. Time Constant	τ_{mech}	0,64 ms
Thermal Time Constant	τ_{th}	65 min
Rotor Inertia	J	15,10 kgcm ²

Torque/speed curves

