

RATED DATA

Motor type	NN5-1600-30-560
Winding number	01-00731

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	296 V
Rated Torque	M_n	13,8 Nm
Rated AC Current	I_n	9,9 A
Stall Torque	M_o	16,0 Nm
Stall AC Current	I_o	10,1 A
Peak Torque	M_{max}	48 Nm
Peak Current	I_{max}	36 A
Max. Speed	n_{max}	9000 min ⁻¹
EMF Constant	K_E	96,0 V/1000
Torque Constant	K_T	1,59 Nm/A
Terminal Resistance	R_{2ph}	0,88 Ω
Terminal Inductance	L_{2ph}	7,5 mH
Number of poles	$2p$	10

No Load Speed	n_o	3950 min ⁻¹
Torque at I_{max}/U_n	M_z	48 Nm
Speed at I_{max}/U_n	n_z	2120 min ⁻¹
Max. Torque at n_n	M_x	29 Nm

El. Time Constant	τ_{el}	8,5 ms
Mech. Time Constant	τ_{mech}	0,70 ms
Thermal Time Constant	τ_{th}	55 min
Rotor Inertia	J	11,50 kgcm ²

Torque/speed curves

