

RATED DATA

Motor type	NN7-6000-25-560
Winding number	01-00864

Rated Speed	n_n	2500 min ⁻¹
DC Bus Voltage	U_{dc}	560 V
Nominal AC Voltage	U_n	380 V
Rated Motor Voltage	U_m	301 V
Rated Torque	M_n	36,2 Nm
Rated AC Current	I_n	20,7 A
Stall Torque	M_o	60 Nm
Stall AC Current	I_o	30,0 A
Peak Torque	M_{max}	180 Nm
Peak Current	I_{max}	102 A
Max. Speed	n_{max}	6000 min ⁻¹
EMF Constant	K_E	121,0 V/1000
Torque Constant	K_T	2,0 Nm/A
Terminal Resistance	R_{2ph}	0,16 Ω
Terminal Inductance	L_{2ph}	3,3 mH
Number of poles	$2p$	10

No Load Speed	n_o	3140 min ⁻¹
Torque at I_{max}/U_n	M_z	177 Nm
Speed at I_{max}/U_n	n_z	1750 min ⁻¹
Max. Torque at n_n	M_x	99 Nm

El. Time Constant	τ_{el}	21 ms
Mech. Time Constant	τ_{mech}	0,74 ms
Thermal Time Constant	τ_{th}	108 min
Rotor Inertia	J	107,00 kgcm ²

Torque/speed curves

