

RATED DATA

Motor type	NN4-0510-30-320
Winding number	01-00708

Rated Speed	n_n	3000 min ⁻¹
DC Bus Voltage	U_{dc}	320 V
Nominal AC Voltage	U_n	220 V
Rated Motor Voltage	U_m	155 V
Rated Torque	M_n	4,2 Nm
Rated AC Current	I_n	7,0 A
Stall Torque	M_o	5,1 Nm
Stall AC Current	I_o	6,8 A
Peak Torque	M_{max}	15,3 Nm
Peak Current	I_{max}	31 A
Max. Speed	n_{max}	9000 min ⁻¹
EMF Constant	K_E	45,5 V/1000
Torque Constant	K_T	0,75 Nm/A
Terminal Resistance	R_{2ph}	1,24 Ω
Terminal Inductance	L_{2ph}	6,8 mH
Number of poles	$2p$	10

No Load Speed	n_o	4800 min ⁻¹
Torque at I_{max}/U_n	M_z	14,7 Nm
Speed at I_{max}/U_n	n_z	1660 min ⁻¹
Max. Torque at n_n	M_x	8,6 Nm

El. Time Constant	τ_{el}	5,5 ms
Mech. Time Constant	τ_{mech}	0,77 ms
Thermal Time Constant	τ_{th}	25 min
Rotor Inertia	J	2,04 kgcm ²

Torque/speed curves

