

RATED DATA

Motor type	NN3-0205-30-320
Winding number	01-00704

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	153 V
Rated Torque	M_n	1,90 Nm
Rated AC Current	I_n	3,1 A
Stall Torque	M_o	2,1 Nm
Stall AC Current	I_o	2,8 A
Peak Torque	M_{max}	6,2 Nm
Peak Current	I_{max}	12,7 A
Max. Speed	n_{max}	12000 min ⁻¹
EMF Constant	K_E	44,5 V/1000
Torque Constant	K_T	0,74 Nm/A
Terminal Resistance	R_{2ph}	5,4 Ω
Terminal Inductance	L_{2ph}	13,3 mH
Number of poles	2p	10

No Load Speed	n_o	4920 min ⁻¹
Torque at I_{max}/U_n	M_z	6,0 Nm
Speed at I_{max}/U_n	n_z	1720 min ⁻¹
Max. Torque at n_n	M_x	3,8 Nm

El. Time Constant	τ_{el}	2,5 ms
Mech. Time Constant	τ_{mech}	0,95 ms
Thermal Time Constant	τ_{th}	23 min
Rotor Inertia	J	0,55 kgcm ²

Torque/speed curves

