

RATED DATA

Motor type	NN2-0054-45-320
Winding number	01-00815

Rated Speed	n_n	4500 min ⁻¹
DC Bus Voltage	U_{dc}	320 V
Nominal AC Voltage	U_n	220 V
Rated Motor Voltage	U_m	166 V
Rated Torque	M_n	0,48 Nm
Rated AC Current	I_n	1,12 A
Stall Torque	M_o	0,54 Nm
Stall AC Current	I_o	1,17 A
Peak Torque	M_{max}	2,2 Nm
Peak Current	I_{max}	5,4 A
Max. Speed	n_{max}	12000 min ⁻¹
EMF Constant	K_E	28,0 V/1000
Torque Constant	K_T	0,46 Nm/A
Terminal Resistance	R_{2ph}	25,9 Ω
Terminal Inductance	L_{2ph}	32,3 mH
Number of poles	$2p$	6

No Load Speed	n_o	7740 min ⁻¹
Torque at I_{max}/U_n	M_z	2,1 Nm
Speed at I_{max}/U_n	n_z	1520 min ⁻¹
Max. Torque at n_n	M_x	1,1 Nm

El. Time Constant	τ_{el}	1,2 ms
Mech. Time Constant	τ_{mech}	1,5 ms
Thermal Time Constant	τ_{th}	12,0 min
Rotor Inertia	J	0,07 kgcm ²

Torque/speed curves

