

RATED DATA

Motor type	NN3-0480-30-320
Winding number	01-00807

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	180 V
Rated Torque	M_n	3,7 Nm
Rated AC Current	I_n	4,5 A
Stall Torque	M_o	4,8 Nm
Stall AC Current	I_o	4,8 A
Peak Torque	M_{max}	14,4 Nm
Peak Current	I_{max}	17,3 A
Max. Speed	n_{max}	12000 min ⁻¹
EMF Constant	K_E	60,0 V/1000
Torque Constant	K_T	0,99 Nm/A
Terminal Resistance	R_{2ph}	2,5 Ω
Terminal Inductance	L_{2ph}	7,5 mH
Number of poles	$2p$	10

No Load Speed	n_o	3660 min ⁻¹
Torque at I_{max}/U_n	M_z	14,2 Nm
Speed at I_{max}/U_n	n_z	2010 min ⁻¹
Max. Torque at n_n	M_x	7,1 Nm

El. Time Constant	τ_{el}	3,0 ms
Mech. Time Constant	τ_{mech}	0,67 ms
Thermal Time Constant	τ_{th}	30 min
Rotor Inertia	J	1,52 kgcm ²

Torque/speed curves

