

RATED DATA

Motor type	NN6-3800-20-560
Winding number	01-00898

Rated Speed	n_n	2000 min ⁻¹
DC Bus Voltage	U_{dc}	560 V
Nominal AC Voltage	U_n	380 V
Rated Motor Voltage	U_m	284 V
Rated Torque	M_n	29,0 Nm
Rated AC Current	I_n	15,0 A
Stall Torque	M_o	38,0 Nm
Stall AC Current	I_o	16,6 A
Peak Torque	M_{max}	114 Nm
Peak Current	I_{max}	64 A
Max. Speed	n_{max}	6000 min ⁻¹
EMF Constant	K_E	138,0 V/1000
Torque Constant	K_T	2,3 Nm/A
Terminal Resistance	R_{2ph}	0,52 Ω
Terminal Inductance	L_{2ph}	7,2 mH
Number of poles	$2p$	10

No Load Speed	n_o	2750 min ⁻¹
Torque at I_{max}/U_n	M_z	112 Nm
Speed at I_{max}/U_n	n_z	1290 min ⁻¹
Max. Torque at n_n	M_x	68 Nm

El. Time Constant	τ_{el}	13,8 ms
Mech. Time Constant	τ_{mech}	0,69 ms
Thermal Time Constant	τ_{th}	57 min
Rotor Inertia	J	39,90 kgcm ²

Torque/speed curves

