

## RATED DATA

Motor type	NN7-3000-30-560
Winding number	01-00861

Rated Speed	$n_n$	3000 min <sup>-1</sup>
DC Bus Voltage	$U_{dc}$	560 V
Nominal AC Voltage	$U_n$	380 V
Rated Motor Voltage	$U_m$	333 V
Rated Torque	$M_n$	23,0 Nm
Rated AC Current	$I_n$	15,5 A
Stall Torque	$M_o$	30,0 Nm
Stall AC Current	$I_o$	16,3 A
Peak Torque	$M_{max}$	85 Nm
Peak Current	$I_{max}$	58 A
Max. Speed	$n_{max}$	6000 min <sup>-1</sup>
EMF Constant	$K_E$	111,0 V/1000
Torque Constant	$K_T$	1,84 Nm/A
Terminal Resistance	$R_{2ph}$	0,41 $\Omega$
Terminal Inductance	$L_{2ph}$	6,4 mH
Number of poles	$2p$	10

No Load Speed	$n_o$	3420 min <sup>-1</sup>
Torque at $I_{max}/U_n$	$M_z$	84 Nm
Speed at $I_{max}/U_n$	$n_z$	1640 min <sup>-1</sup>
Max. Torque at $n_n$	$M_x$	29 Nm

El. Time Constant	$\tau_{el}$	15,6 ms
Mech. Time Constant	$\tau_{mech}$	1,0 ms
Thermal Time Constant	$\tau_{th}$	80 min
Rotor Inertia	$J$	49,50 kgcm <sup>2</sup>

**Torque/speed curves**

