

## RATED DATA

Motor type	<b>NN3-0350-30-320</b>
Winding number	<b>01-00706</b>

Rated Speed	$n_n$	3000 min <sup>-1</sup>
DC Bus Voltage	$U_{dc}$	320 V
Nominal AC Voltage	$U_n$	220 V
Rated Motor Voltage	$U_m$	156 V
Rated Torque	$M_n$	3,0 Nm
Rated AC Current	$I_n$	4,3 A
Stall Torque	$M_o$	3,5 Nm
Stall AC Current	$I_o$	4,2 A
Peak Torque	$M_{max}$	10,5 Nm
Peak Current	$I_{max}$	19,4 A
Max. Speed	$n_{max}$	12000 min <sup>-1</sup>
EMF Constant	$K_E$	50,0 V/1000
Torque Constant	$K_T$	0,83 Nm/A
Terminal Resistance	$R_{2ph}$	2,8 $\Omega$
Terminal Inductance	$L_{2ph}$	8,1 mH
Number of poles	$2p$	10

No Load Speed	$n_o$	4390 min <sup>-1</sup>
Torque at $I_{max}/U_n$	$M_z$	10,4 Nm
Speed at $I_{max}/U_n$	$n_z$	1870 min <sup>-1</sup>
Max. Torque at $n_n$	$M_x$	6,6 Nm

El. Time Constant	$T_{el}$	2,9 ms
Mech. Time Constant	$T_{mech}$	0,74 ms
Thermal Time Constant	$T_{th}$	27 min
Rotor Inertia	$J$	1,04 kgcm <sup>2</sup>
Efficiency approximately	$Eff$	85 %

### Torque/speed curves

