

## RATED DATA

Motor type	NN3-0115-30-320
Winding number	01-00702

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	$U_m$	136 V
Rated Torque	$M_n$	1,13 Nm
Rated AC Current	$I_n$	2,3 A
Stall Torque	$M_o$	1,15 Nm
Stall AC Current	$I_o$	2,0 A
Peak Torque	$M_{max}$	3,5 Nm
Peak Current	$I_{max}$	9,2 A
Max. Speed	$n_{max}$	12000 min <sup>-1</sup>
EMF Constant	$K_E$	34,5 V/1000
Torque Constant	$K_T$	0,57 Nm/A
Terminal Resistance	$R_{2ph}$	8,4 $\Omega$
Terminal Inductance	$L_{2ph}$	18,0 mH
Number of poles	2p	10

No Load Speed	$n_o$	6320 min <sup>-1</sup>
Torque at $I_{max}/U_n$	$M_z$	3,4 Nm
Speed at $I_{max}/U_n$	$n_z$	1800 min <sup>-1</sup>
Max. Torque at $n_n$	$M_x$	2,4 Nm

El. Time Constant	$T_{el}$	2,1 ms
Mech. Time Constant	$T_{mech}$	1,4 ms
Thermal Time Constant	$T_{th}$	21 min
Rotor Inertia	$J$	0,31 kgcm <sup>2</sup>

**Torque/speed curves**

