

## RATED DATA

Motor type	NN5-2400-30-560
Winding number	01-00863

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	$U_m$	296 V
Rated Torque	$M_n$	20,0 Nm
Rated AC Current	$I_n$	14,4 A
Stall Torque	$M_o$	24,0 Nm
Stall AC Current	$I_o$	14,0 A
Peak Torque	$M_{max}$	72 Nm
Peak Current	$I_{max}$	48 A
Max. Speed	$n_{max}$	9000 min <sup>-1</sup>
EMF Constant	$K_E$	104,0 V/1000
Torque Constant	$K_T$	1,72 Nm/A
Terminal Resistance	$R_{2ph}$	0,56 $\Omega$
Terminal Inductance	$L_{2ph}$	5,0 mH
Number of poles	$2p$	10

No Load Speed	$n_o$	3650 min <sup>-1</sup>
Torque at $I_{max}/U_n$	$M_z$	71 Nm
Speed at $I_{max}/U_n$	$n_z$	2200 min <sup>-1</sup>
Max. Torque at $n_n$	$M_x$	41 Nm

El. Time Constant	$\tau_{el}$	8,9 ms
Mech. Time Constant	$\tau_{mech}$	0,61 ms
Thermal Time Constant	$\tau_{th}$	75 min
Rotor Inertia	$J$	18,70 kgcm <sup>2</sup>

**Torque/speed curves**

