

## RATED DATA

Motor type	<b>N6-1800-20-560</b>
Winding number	<b>01-00976</b>

Rated Speed	$n_n$	2000 min <sup>-1</sup>
DC Bus Voltage	$U_{dc}$	560 V
Nominal AC Voltage	$U_n$	380 V
Rated Motor Voltage	$U_m$	269 V
Rated Torque	$M_n$	14,8 Nm
Rated AC Current	$I_n$	8,6 A
Stall Torque	$M_o$	18,0 Nm
Stall AC Current	$I_o$	8,8 A
Peak Torque	$M_{max}$	51 Nm
Peak Current	$I_{max}$	33 A
Max. Speed	$n_{max}$	6000 min <sup>-1</sup>
EMF Constant	$K_E$	123,0 V/1000
Torque Constant	$K_T$	2,0 Nm/A
Terminal Resistance	$R_{2ph}$	1,19 $\Omega$
Terminal Inductance	$L_{2ph}$	13,7 mH
Number of poles	2p	10

No Load Speed	$n_o$	3080 min <sup>-1</sup>
Torque at $I_{max}/U_n$	$M_z$	50 Nm
Speed at $I_{max}/U_n$	$n_z$	1340 min <sup>-1</sup>
Max. Torque at $n_n$	$M_x$	33 Nm

El. Time Constant	$T_{el}$	11,5 ms
Mech. Time Constant	$T_{mech}$	0,92 ms
Thermal Time Constant	$T_{th}$	42 min
Rotor Inertia	$J$	18,50 kgcm <sup>2</sup>

**Torque/speed curves**

