

## RATED DATA

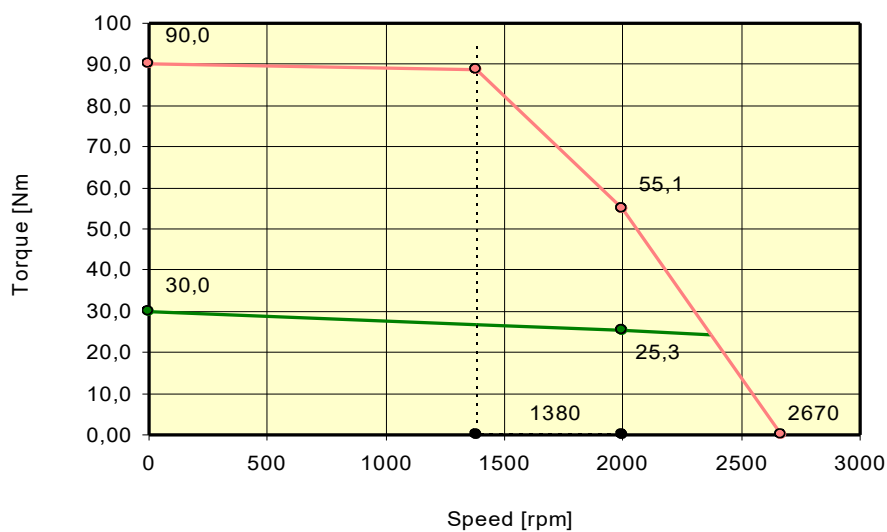
Motor type	<b>N6-3000-20-560</b>
Winding number	<b>01-00985</b>

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	$U_m$	288 V
Rated Torque	$M_n$	25,3 Nm
Rated AC Current	$I_n$	12,9 A
Stall Torque	$M_o$	30,0 Nm
Stall AC Current	$I_o$	12,8 A
Peak Torque	$M_{max}$	90 Nm
Peak Current	$I_{max}$	46 A
Max. Speed	$n_{max}$	6000 min <sup>-1</sup>
EMF Constant	$K_E$	142,0 V/1000
Torque Constant	$K_T$	2,4 Nm/A
Terminal Resistance	$R_{2ph}$	0,63 $\Omega$
Terminal Inductance	$L_{2ph}$	9,2 mH
Number of poles	$2p$	10

No Load Speed	$n_o$	2670 min <sup>-1</sup>
Torque at $I_{max}/U_n$	$M_z$	89 Nm
Speed at $I_{max}/U_n$	$n_z$	1380 min <sup>-1</sup>
Max. Torque at $n_n$	$M_x$	55 Nm

El. Time Constant	$T_{el}$	14,6 ms
Mech. Time Constant	$T_{mech}$	0,65 ms
Thermal Time Constant	$T_{th}$	52 min
Rotor Inertia	$J$	32,70 kgcm <sup>2</sup>

**Torque/speed curves**



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