

## Operation Curves

**Motor Type**

MotorCode = "U3 0730F153"

**Document**

DocNum = "55404n-0-d-m"

**Maximum drive voltage**

Vdrive = 380·V

Vdc = 537·V

**Driver current limit**

Nominal Current

CurS1 = 10·A

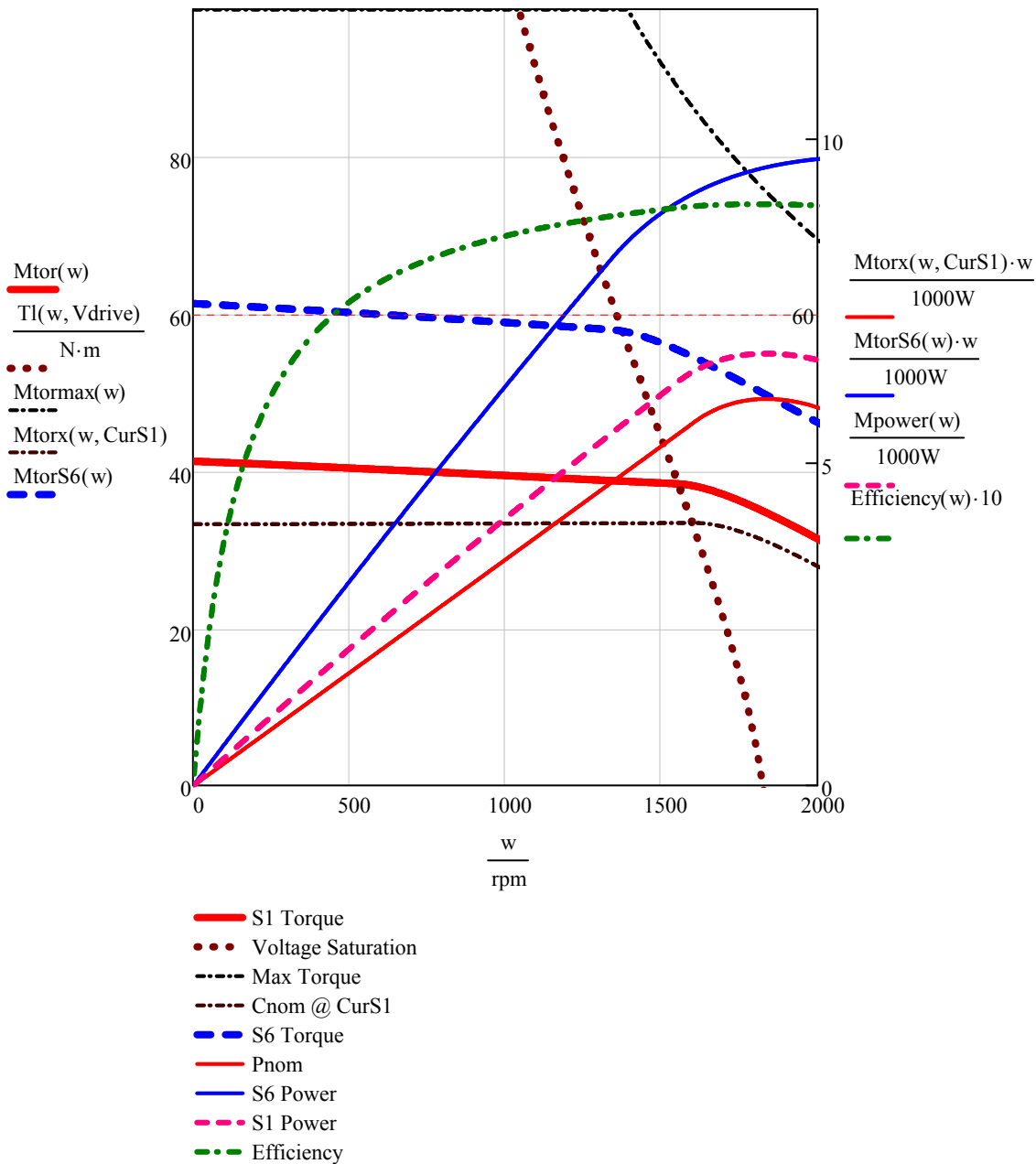
Ripplepk = 0.47·A

Max Current

Curmax

**Chopper frequency**

Chfreq = 8kHz



## Technical Data Summary

**Motor Type** MotorCode = "U3 0730F153"  
**Document** DocNum = "55404n-0-d-m"

### Reference data

Maximum drive voltage 1)	Vdrive = 380·V		
Ambiental Temperature	Tamb = 30 K		
Winding Temperature	Tcumax = 130 K		
Rated Speed	nn = 1500·rpm	Frequency	Fn = 100·Hz
Stall Torque	Md0 = 41·N·m		
Current @ stall torque	Id0 = 12.41·A		
Number of poles	Pn = 8		
Rated Torque	Mdn = 39·N·m		
Rated Current	Idn = 11.97·A		
Rated Power	Pdn = 6.05·kW		
Voltage Constant @ Tamb	Ke = 227.3·V·(1000rpm) <sup>-1</sup>		
Torque constant	Kt = 3.76·N·m·A <sup>-1</sup>		
Torque Constant @Tcumax	Kt100 = 3.444·N·m·A <sup>-1</sup>		
Winding Resistance	Rw = 2.092·ohm		
Winding Inductance	Lc = 20.79·mH		
Max. Torque	Mmax = 99·N·m		=====
Max. Current	Imax = 33·A		All data are referred to ambiental temperature (Tamb), except where different specified
Max. Speed	nmax = 1825·rpm		
Inertia	Jm = 22·kg·cm <sup>2</sup>		除特殊标示外, 所有数据均基于环境温度 (Tamb) 给定.
Losses	Mlos = 0.74·kW		
Cooling version	Cooling <sub>control</sub> = "Servo fan"		
Minimum Flow (DT 10C)	Fl = "na"·L·min <sup>-1</sup>		
Coolant Inlet Temperature	Tcoolant = 35 K		
Efficiency	Eff = 84.6·%		
Voltage @ nominal speed	Vnom = 360.4·V		
Brake power	Pbrk = 0·W		(Or pump losses)

### Customer Operation Data

Operation torque	Mtorx(ω, CurS1) = 33.4·N·m	Maximum Torque	Cmax
Nominal Speed	ω = 1500·rpm	Speed @ Cmax	ω2
Operation Current	CurS1 = 10·A	Max Operation Current	Currmax
Operation Power	Pnom = 5.3·kW	Power max	Pmax
Iq current	Iqx(ω, CurS1)	Iq current	Iqx(ω2, Currmax)
Id Current	IdS1 = 0·A	Id Current	Idx(ω2, Currmax)