

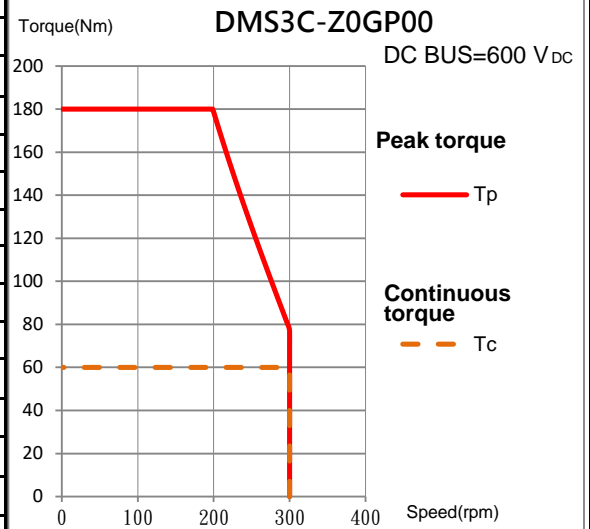
**DMS3C-Z0GP00 Direct Drive Motor**

**Spec No: DB100271-V2.03**

**Electrical specifications**

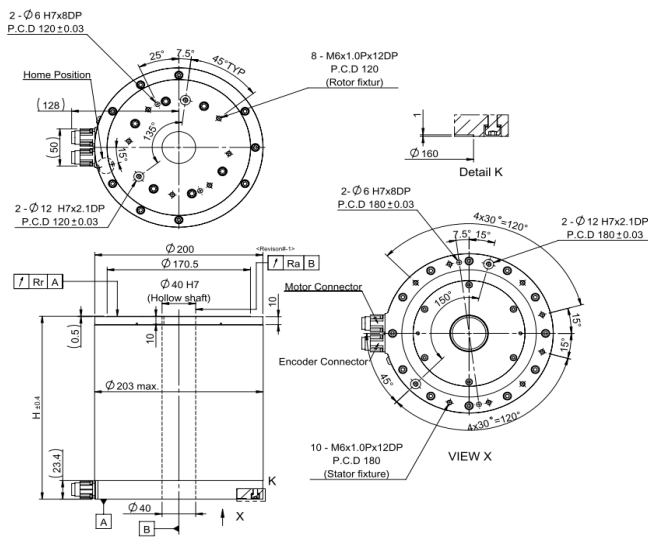
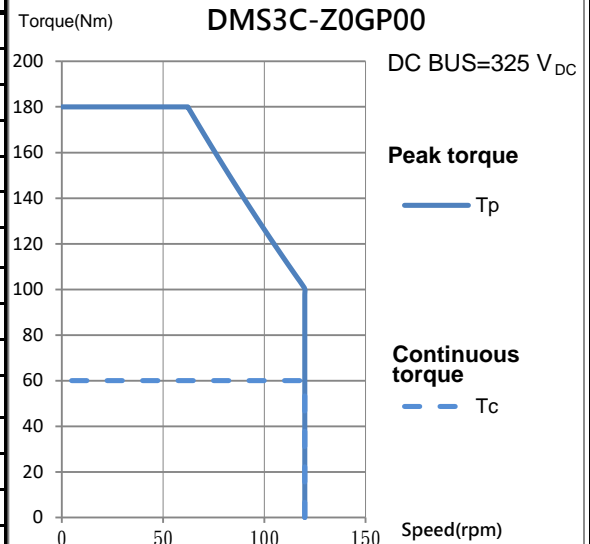
Winding code : LA	Symbol	Unit	
Continuous torque	$T_c$	Nm	60
Continuous current	$I_c$	$A_{rms}$	3.4
Peak torque(for 1sec.)	$T_p$	Nm	180
Peak current(for 1sec.)	$I_p$	$A_{rms}$	10.2
Torque constant	$K_t$	Nm/Arms	18
Electrical time constant	$T_e$	ms	4.9
Resistance (line to line at 25°C)	$R_{25}$	$\Omega$	17.1
Inductance (line to line)	L	mH	81
Number of poles			22
Back emf constant (line to line)	$K_v$	Vrms/rad/s	9
Motor constant (at 25°C)	$K_m$	Nm/ $\sqrt{W}$	3.6
Thermal resistance	$R_{th}$	K/W	0.32
Thermal sensor			PTC 120
Max. DC BUS		$V_{DC}$	600

**T-N curve**



**Mechanical specifications**

	Symbol	Unit	
Inertia of rotor	J	$kgm^2$	0.026
Mass of motor	$M_m$	kg	29
Max. axial load	$F_a$	N	8000
Max. moment load	M	Nm	240
Max. speed(at 600VDC)		rpm	300
Max. speed(at 325VDC)		rpm	120
Line count			2048 (SinCos 1Vpp)
Repeatability		arc-sec	$\pm 2.5$
Accuracy		arc-sec	$\pm 25$
Axial run-out	$R_a$	$\mu m$	30
Radial run-out	$R_r$	$\mu m$	30
Motor dimensions	DxH	mm	$\phi 200 \times 230$
Revolutions			13bit (Endat2.2)



Except dimensions, all the specifications in the table are in  $\pm 10\%$  of tolerance

Version: 2.03

This drawing is only for reference, detail dimensions please refer to approval drawing.

Date: 202513