

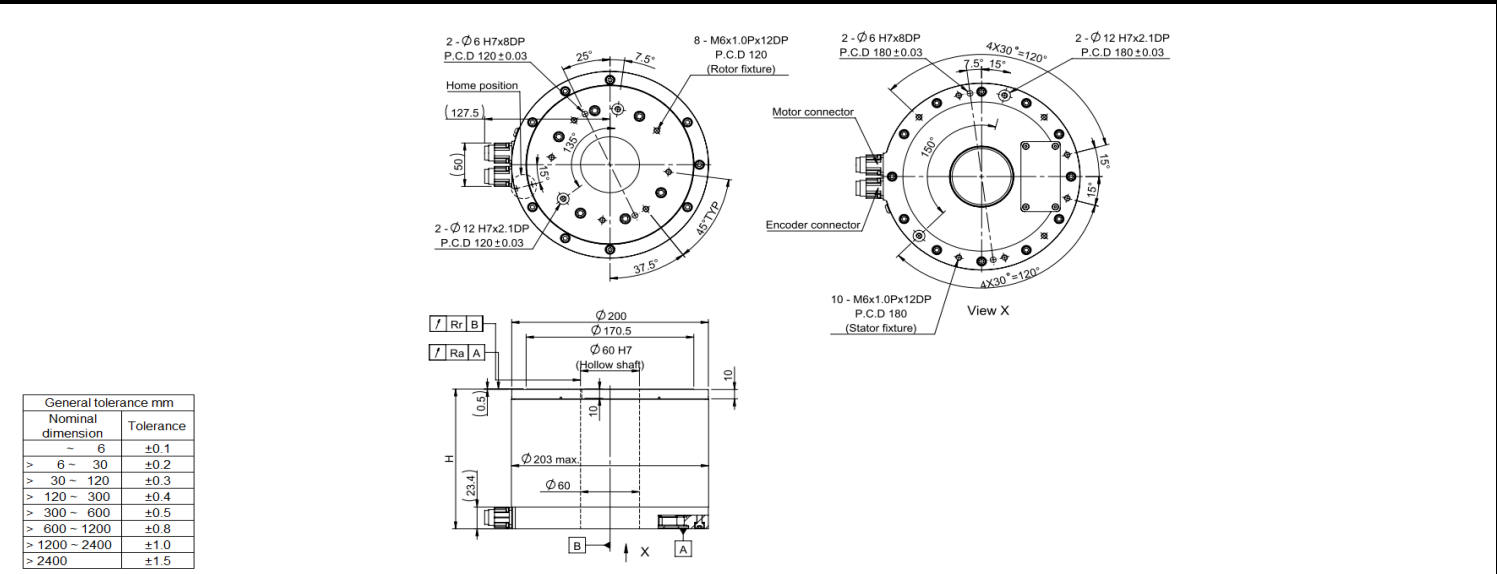
DMS3C-Z0GP00

Direct Drive Motor

Spec No: DB100273-V2.03

Electrical specifications				T-N curve	
Winding code : LA	Symbol	Unit		Torque(Nm) DMS3C-Z0GP00 DC BUS=600 V_{DC} 180 160 140 120 100 80 60 40 20 0 0 100 200 300 400 Speed(rpm) Peak torque Tp Continuous torque Tc	
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	Ω	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/√W	3.6		
Thermal resistance	R _{th}	K/W	0.32		
Thermal sensor			PTC 120		
Max. DC BUS		V _{DC}	600		

Mechanical specifications				T-N curve	
	Symbol	Unit		Torque(Nm) DMS3C-Z0GP00 DC BUS=325 V_{DC} 180 160 140 120 100 80 60 40 20 0 0 50 100 150 Speed(rpm) Peak torque Tp Continuous torque Tc	
Inertia of rotor	J	kgm ²	0.035		
Mass of motor	M _m	kg	28.5		
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		
Resolution		p/rev	26 bit(BISS-C)		
Repeatability		arc-sec	±2.5		
Accuracy		arc-sec	±25		
Axial run-out	R _a	μm	30		
Radial run-out	R _r	μm	30		
Motor dimensions	DxH	mm	φ200x230		



Except dimensions, all the specifications in the table are in ±10% of tolerance

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

Version: 2.03

Date: 2025115