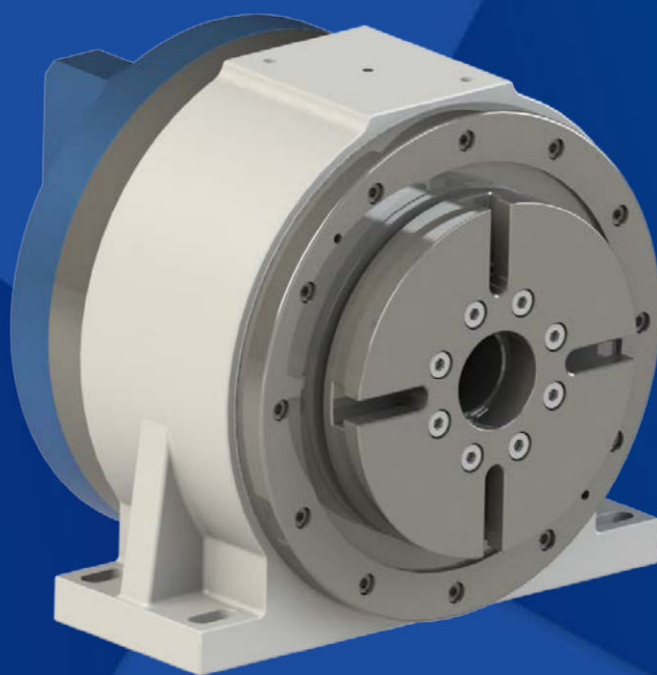


Torque Motor Rotary Table (DZGD-180A11)

Instruction Manual



广州市昊志机电股份有限公司

Appendix 3 Technical Parameter
Table

Turntable Model DZGD-180A11	
No.	Technical Parameter
01	Table Diameter (mm) $\phi 180$
02	Center Height (mm) 135 ± 0.02
03	Rotary Table Face Runout (mm) ≤ 0.01
04	Radial Runout of Table Center Hole (mm) ≤ 0.005
05	Perpendicularity of Rotary Table to Base (mm) ≤ 0.02
06	Brake Operating Air Pressure (MPa) $0.47-0.55$
07	Brake Clamping Torque (N·m) ≥ 235
08	Brake Release/Clamp Delay (ms) > 500
09	Encoder (Biss-C Protocol) Resolution: 26 bit
10	Axial Stiffness (N/ μm) ≥ 400
11	Radial Stiffness (N/ μm) ≥ 400
12	Tilt Stiffness (N·m/mrad) ≥ 2000
13	Noise Level (dB(A)) ≤ 68 (@200rpm)
14	Workpiece Load Capacity (kg) ≤ 50
15	Product Weight (kg) 65

Motor Parameters	
01	Motor Moment of Inertia (kg·m ²) 0.07
02	Rated Voltage (V) 220
03	Rated Speed (rpm) 200
04	Max Speed (rpm) 250
05	Rated Current (A) 8.5
06	Max Current (A) 30
07	Rated Torque (N·m) 105
08	Max Torque (N·m) 332

09 Rated Power (kW)	2.2
10 Max Power (kW)	4.6
11 Rated Frequency (Hz)	33.33
12 Max Frequency (Hz)	41.66
13 Motor Pole Count (2P)	20
14 Motor Terminal Resistance (Ω)	4.2
15 Motor Terminal Inductance (mH)	52.5
16 D-axis Inductance (mH)	33.7
17 Q-axis Inductance (mH)	33.7
18 Back-EMF Constant RMS (V/krpm)	730
19 Torque Constant (N·m/A)	12.4
20 Thermal Sensor Model	KTY84-130
21 Motor Winding Insulation Resistance (M Ω)	≥ 500
22 Motor Winding Withstand Voltage Test (V/M)	1500V/1 min Withstand Voltage Test
23 Cold-state Winding Resistance (Ω)	Three-phase Balanced (Max Resistance Difference < 3%)

Appendix 4 Outline Dimension Drawing

