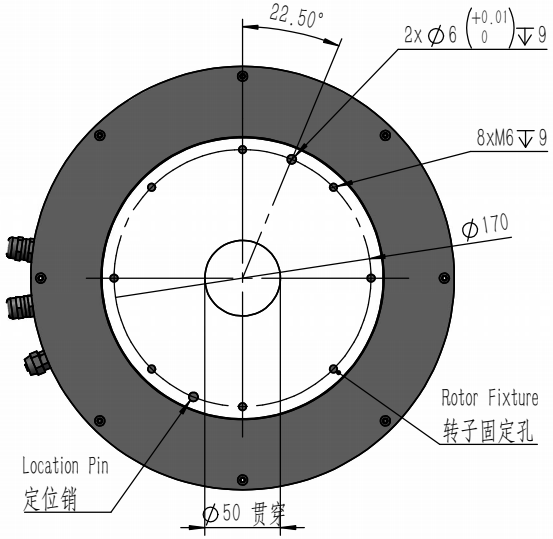
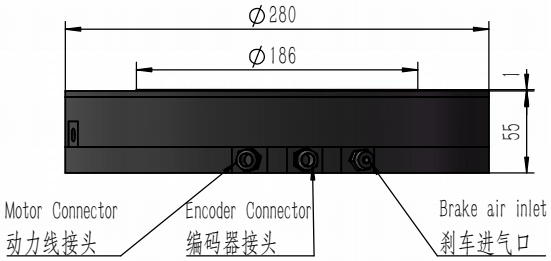
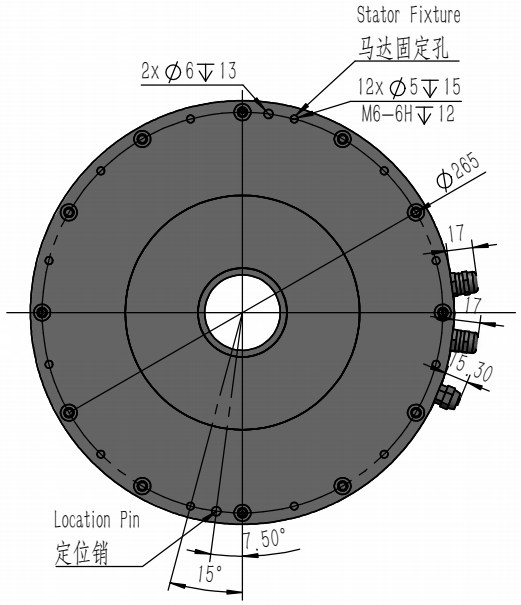






ANALOG ENCODER WIRING DIAGRAM 编码器配线表			
Function 功能	Pin NO. 脚位	Signal 信号	Color 颜色
Power 电源	11	5V	Yellow 黄色
	24	0V	Yellow & Black 黄黑色
Communication Signal 通信信号	1	D+	White & Black 白黑色
	14	D–	White 白色
	2	C+	Grey 灰色
	15	C–	Grey & Black 灰黑色
	Case 外壳	Shield 屏蔽	

MOTOR WIRING DIAGRAM 马达电源配线表	
Signal 信号	Color 颜色
U	Blue 蓝色
V	Brown 棕色
W	Black 黑色
PE	Yellow & Green 黄绿色

NOTE:
1.Please make sure the flatness of customer's surface when mounting the motor must be within 0.01/300 mm.
2.The mounting surface without black oxidation.
注释:
1.为确保精度，直驱电机的安装面的平面度需在0.01/300 mm。
2.安装面无黑色涂层。

Wiring Definition 接线定义	Installation Instructions 安装说明	Maintenance Instructions 保养说明

No. 序号	Performance Parameters 性能参数	Numerical value 数值
1	Axial Run Out 轴向偏摆 (μm)	10
2	Radial Run Out 径向偏摆 (μm)	10
3	Mass 电机重量 (kg)	20
4	Operating Ambient Temperature 环境温度 (℃)	0–50
5	IP level 防护等级 (IP)	40
6	Repeat Position Accuracy 重复精度 (Arc sec)	±2
7	Absolute Position Accuracy 绝对精度 (Arc sec)	±10
8	Axial Load 正轴向负载 (N)	1000
9	Motor constant 电机常数 (Nm/Sqrt (W))	5.443
10	Maximum Output Power 电机最大功率 (W)	209
11	Rated torque 额定扭矩 (Nm)	20
12	Peak torque 峰值扭矩 (Nm)	40
13	Rated current 额定电流 (A rms)	3
14	Peak current 峰值电流 (A rms)	7.5
15	Maximum Speed 峰值转速 (rpm)	100
16	Resistance 电阻(ptp)±10% (Ω)	3
17	Inductance 电感(ptp)±30% (mH)(25 °)	18
18	Torque Constant 转矩常数±10% (Nm/A rms)	6.667
19	Number of poles 极数	60
20	Rotor Inertia 转动惯量 (kg·m2)	0.015
21	Back EMF Constant 反向电动势常数 (Vrms/(rad/s))	3.867
22	Motor Color 马达颜色	Black 黑色
23	Encoder Type 编码器协议	BISS–C
24	Resolution 编码器分辨率 (bit)	26
25	Max. DC BUS 最大工作电压 (V)	220
26	Brake Torque (Spring–Applied, Air–Release) 断气刹车扭矩 (NM)	50

* All the specifications in the table are in 10% of tolerance.
表内所有规格误差范围 10%

ITEM	DATE	MODIFIED	DESCRIPTION	APPD

TPA 玖钧传动 Motion Control

SCALE	UNIT		Model	TDI–280055–A–SZ–K50–40		
1:X	mm		Desc	Rotary Motor External Rotor		
GENERAL TOLERANCE			Surface	Black oxidation	DRN	Tang
Up to 6	6 to 30	30 to 120	120 to 300	300 to 600	DWG.NO	M280B002	CHK	Zhou
±0.1	±0.2	±0.3	±0.4	±0.5	Sheet	1–1	APPD	Le

TPA Motion Control International Co., Limited DATE 17–Jul–25