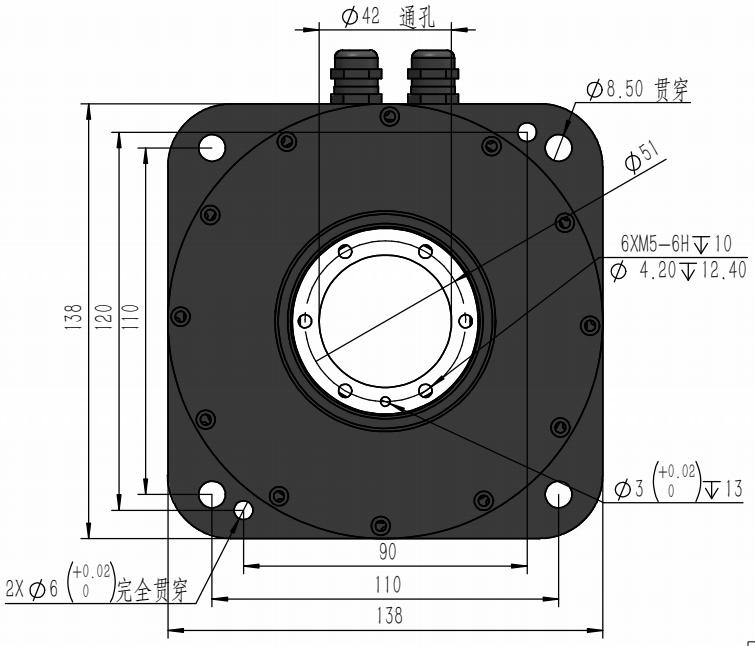
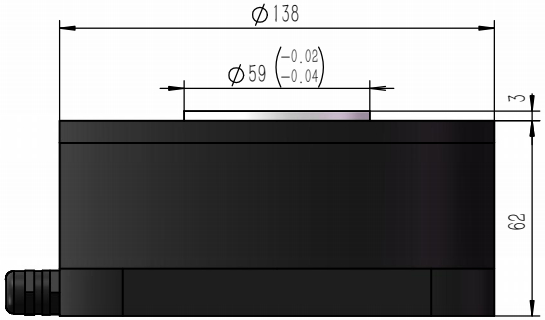
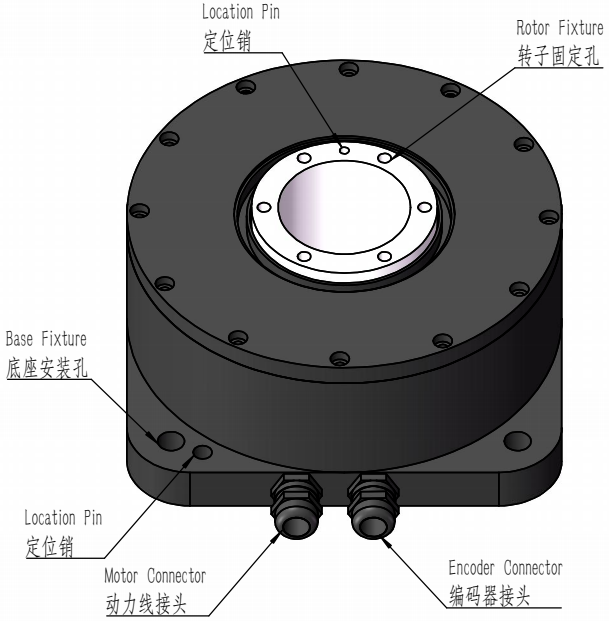






ANALOG ENCODER WIRING DIAGRAM 编码器配线表			
Function 功能	Pin NO. 脚位	Signal 信号	Color 颜色
Power 电源	11	5V	Yellow 黄色
	24	0V	Yellow & Black 黄黑色
Communication Signal 通信信号	1	A+	White & Black 白黑色
	14	A-	White 白色
	Case 外壳	Shield 屏蔽	

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)	4
4	Operating Ambient Temperature 环境温度 (℃)	0-50
5	IP level 防护等级 (IP)	65
6	Repeat Position Accuracy 重复精度 (Arc sec)	±1.5
7	Absolute Position Accuracy 绝对精度 (Arc sec)	±15
8	Axial Load 正轴向负载 (N)	500
9	Motor constant 电机常数 (Nm/Sqrt (W))	1.047
10	Maximum Output Power 电机最大功率 (W)	189
11	Rated torque 额定扭矩 (Nm)	6
12	Peak torque 峰值扭矩 (Nm)	15.5
13	Rated current 额定电流 (A rms)	3
14	Peak current 峰值电流 (A rms)	9
15	Maximum Speed 峰值转速 (rpm)	300
16	Resistance 电阻(ptp)±10% (Ω)	7.3
17	Inductance 电感(ptp)±30% (mH)(25 °)	30
18	Torque Constant 转矩常数±10% (Nm/A rms)	2
19	Number of poles 极数	28
20	Rotor Inertia 转动惯量 (kg·m2)	0.001
21	Back EMF Constant 反向电动势常数 (Vrms/(rad/s))	1.16
22	Motor Color 马达颜色	Black 黑色
23	Encoder Type 编码器协议	Tamagawa 多摩川
24	Resolution 编码器分辨率 (bit)	23
25	Max. DC BUS 最大工作电压 (V)	220

* 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
1:X	mm

GENERAL TOLERANCE

Up to 6	6 to 30	30 to 120	120 to 300	300 to 600
±0.1	±0.2	±0.3	±0.4	±0.5

Model	TDI-138065-F-SD-K42-40		
Desc	Rotary Motor External Rotor		
Surface	Black oxidation	DRN	Tang
DWG.NO	M138P001	CHK	Zhou
Sheet	1-1	APPD	Le
TPA Motion Control International Co., Limited	DATE	17-Jul-25	