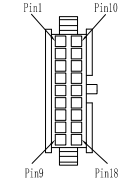
角号 PIN	定义 FUNCTION	颜色 COLOR	线径 WIRE GAGE	角号 PIN	定义 FUNCTION	颜色 COLOR	线径 WIRE GAGE
1	24V	RED 红色	28AWG	10	GND	BLK 黑色	28AWG
2	LOCK+	BN 棕色		11	LOCK-	BLU 蓝色	
3	CANH	LT GN 浅绿色		12	CANL	LBL 浅蓝色	
4	CANH	PNK 粉色		13	CANL	WT/BK 白黑	
5	485A	GRY 灰色		14	485B	WHI 白色	
6	485A	YLW 黄色		15	485B	GRN 绿色	
7	OUT1+	VI 紫色		16	COMO	OG 橙色	
8	COMI	WT/BN 白棕		17	DI1	WH/RD 白红	
9	NC			18	DI2	WH/OG 白橙	

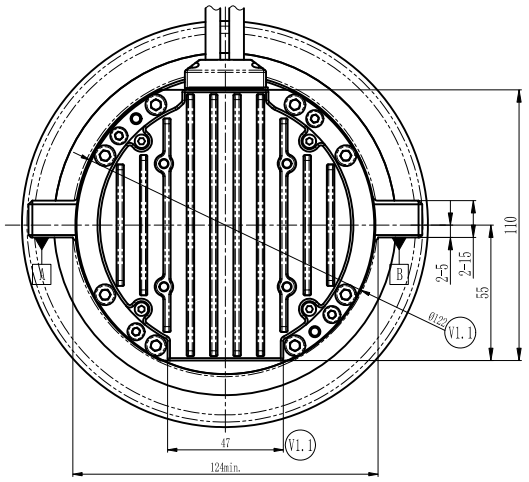


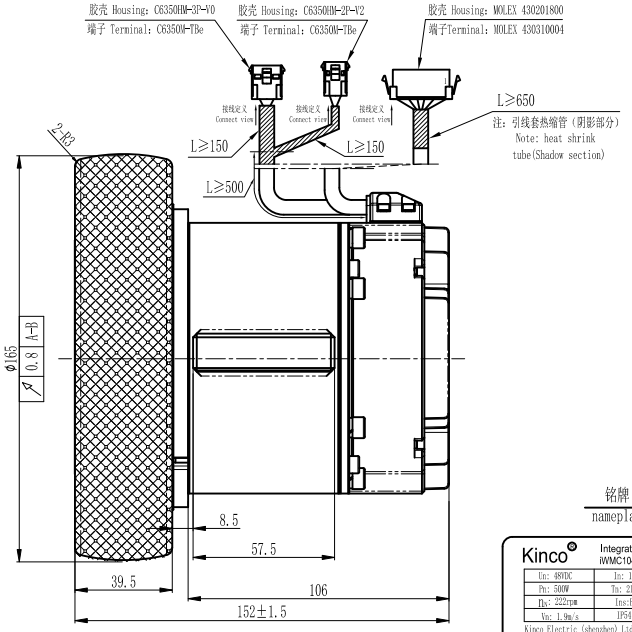
胶壳 Housing：MOLEX 430201800
端子Terminal：MOLEX 430310004

V1.4 反馈线 Feedback Wire

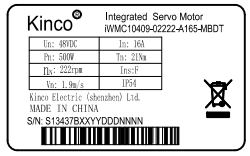
插件 CONNECTOR	角号 PIN	定义 FUNCTION	颜色 COLOR	线径 WIRE GAGE	插件1 CONNECTOR 1	插件2 CONNECTOR 2
1	1	48V+	RED 红色	16AWG V1.2	Pin3 Pin1	Pin2 Pin1
	2	NC				
	3	48V-	BLK 黑色			
2	1	RB+	BN 棕色		胶壳 Housing：C6350HM-3P-V0 端子 Terminal：C6350M-TBe	胶壳 Housing：C6350HM-2P-V2 端子 Terminal：C6350M-TBe
	2	RB-	BLU 蓝色			

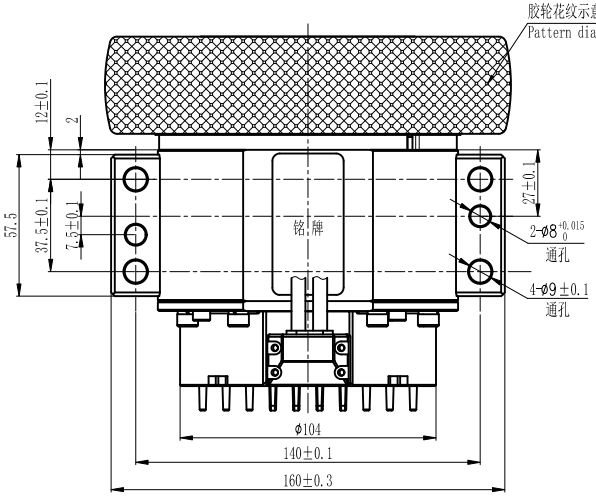
V1.4 动力线 Power Wire





铭牌
nameplate



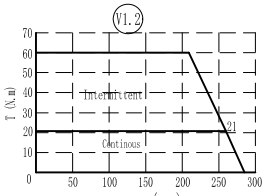


V1.4 备注：

1、胶轮材质：聚氨酯（防静电）；硬度：Shore 85A±2;
材质拉伸强度：≥35MPa；断裂伸长率：≥450%;
撕裂强度：≥73kN/m；工作温度：-50~80℃(仅轮毂)；
wheel material: polyurethane (anti static); Hardness: Shore 90A ± 2;
Material tensile strength: ≥ 40MPa; Elongation at break: ≥ 440%;
Tear strength: ≥ 105kN/m; Working temperature: -50~80 ℃;

2、电机噪音：65dB（A）（@1m，2500rpm），且不得有明显杂音、异音;
Motor noise: 65dB (A) (@ 1m, 2500rpm);and there should be no Obvious noise and abnormal sound;

V1.2



V1.4 刹车参数 Brake Data

静摩擦力 Static Friction (N.m)	4
电压 Voltage (VDC)	24
功率 Power (W)	16.5

V1.4 减速机参数 Gear Box Data

速比 Gear ratio i1	9
容许平均输出扭矩 Permissible average output torque (N.m)	30
容许最大输出扭矩 Maximum allowable output torque (N.m)	60
平均输入回转转速 Average input speed (rpm)	3000
最高输入回转转速 Maximum input speed (rpm)	6000
容许径向负载 Max. radial force Fr (N)	3000
容许轴向负载 Max. axial force Fa (N)	1000
效率 Efficiency	≥95%
背隙精度 Backgap accuracy	≤12 arcmin

V1.4 技术参数 Technical Data

动力电源 Power (V)	48
逻辑电源 Logic power (V)	24
额定转矩 Rated speed (rpm)	21
峰值转矩 Maximum torque (N.m)	60
轮径 Wheel diameter (mm)	165 ref.
轮宽 Wheel width (mm)	50 ref.
额定线速度 Rated linear speed (m/s)	1.9 ref.
输入输出 input/output	2入1出
通讯 Communicate	CAN
调试 Shakedown test	485
外部解抱闸 External unlocking brake voltage	24（仅限驱动器断开逻辑电、动力线后使用 Only for use after the driver disconnects the logical electrical and power lines）
驱动器额定电流 Driver rated current	16Arms
驱动器峰值电流 Driver peak current	64Ap
电机额定转速 Motor rated speed(rpm)	2000
电机额定扭矩 Motor rated torque(N.m)	2.4
整机重量 Overall weight (kg)	8.2 V1.3
环境要求 Evironmental conditions	工作环境温度 Working environment temperature：0℃~40℃; 存储温度 Storage temperature：-20℃~60℃; 使用和存储均为≤90%RH，无结露；90%RH（below） for use and storage, non-condensation;聚氨酯胎面要求平整路面且无异物Polyurethane tread requires a flat road surface and no foreign objects。
说明 illustrate	标准产品胎面为聚氨酯;标准产品防护等级为IP54 The standard product tread is polyurethane; The standard product protection level is IP54

VER	DESCRIPTION OF CHANGE
V1.1	添加外形尺寸；详见图纸
V1.2	增加T-N曲线及备注，更改线色；详见图纸
V1.3	增加电机重量；修正端子序号；详见图纸
V1.4	中文说明改为中英双语说明；详见图纸

V1.4	ECN240063	LSJ	SL	2024-04-19
VER	ECN NO.	CHANGE	APP'D	DATE

FINAL TOLERANCE REFERENCE
GB/T 1804-m Unit:mm
LINER
≤6 ±0.1 >6~30 ±0.2
>30~120 ±0.3 >120~400 ±0.5

MATERIAL

FIRST ANGLE PROJECTION

DESIGN	LSJ	2022-11-15
CHECK	WYD	2022-11-15
APPROVE	SL	2022-11-15
SHEET 1 OF 1		

P/NO.	9.7976SS
TITLE	Outside Drawing
USED ON	iWMC10409-02222-A165-MBDT
SCALE:	VER: V1.4
KINCO	

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