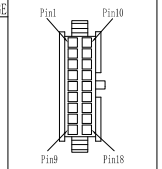
角号 PIN	定义 FUNCTION	颜色 COLOR	线径 WIRE GAGE	角号 PIN	定义 FUNCTION	颜色 COLOR	线径 WIRE GAGE
1	24V	RED 红色	28AWG	10	GND	BLK 黑色	28AWG
2	NC			11	NC		
3	CANH	LT GN 浅绿色		12	CANL	LBL 浅蓝色	
4	CANH	PNK 粉色		13	CANL	WT/BK 白黑	
5	485A	GRY 灰色		14	485B	WHI 白色	
6	485A	YLW 黄色		15	485B	GRN 绿色	
7	OUT1+	VI 紫色		16	COM0	OG 橙色	
8	COM1	WT/BN 白棕		17	DI1	WH/RD 白红	
9	NC			18	DI2	WH/OG 白橙	

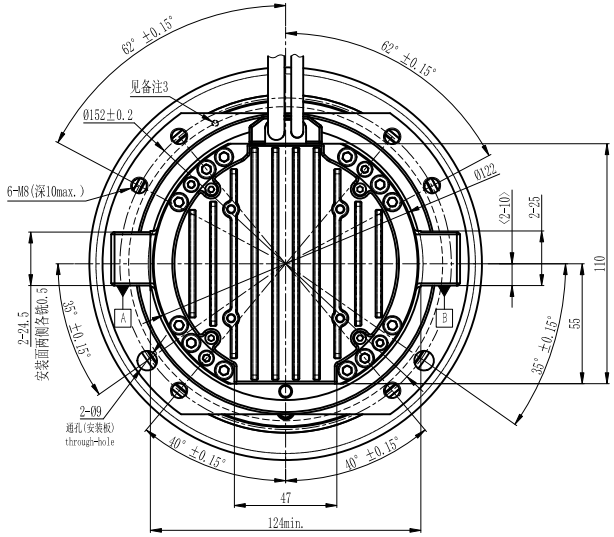


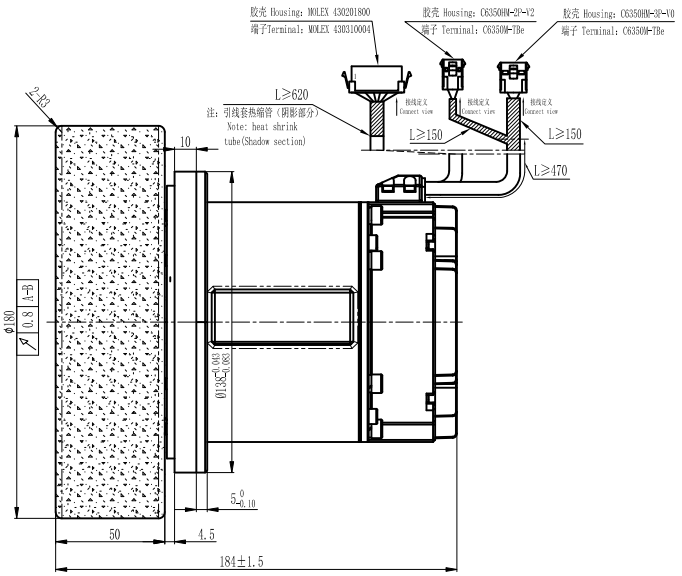
胶壳 Housing: MOLEX 430201800
端子Terminal: MOLEX 430310004

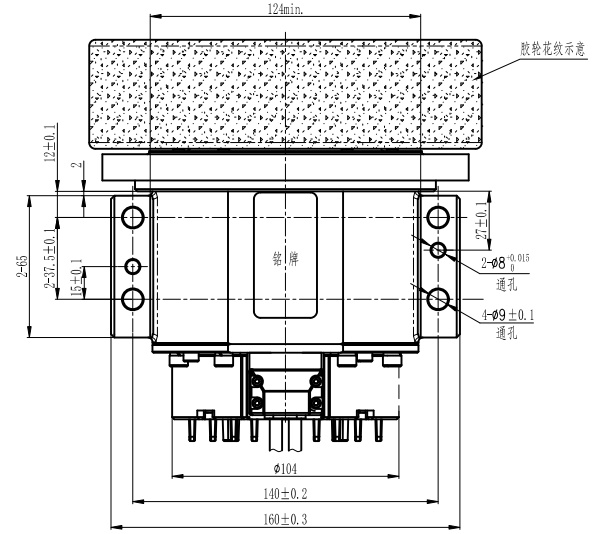
V1.1 反馈线 Feedback Wire

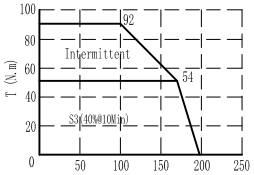
插件 CONNECTOR	角号 PIN	定义 FUNCTION	颜色 COLOR	线径 WIRE GAGE	插件1 CONNECTOR 1	插件2 CONNECTOR 2
1	1	48V+	RED 红色	14AWG	Pin3 Pin1	Pin2 Pin1
	2	NC				
	3	48V-	BLK 黑色			
2	1	RB+	BN 棕色	16AWG	胶壳 Housing: C6350HM-3P-V0 端子 Terminal: C6350M-TBe	胶壳 Housing: C6350HM-2P-V2 端子 Terminal: C6350M-TBe
	2	RB-	BLU 蓝色			

V1.1 动力线 Power Wire

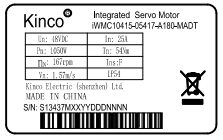








铭牌
nameplate



备注：V1.1
1、胶轮材质：聚氨酯（防静电）；硬度：Shore 93A±2；
材质拉伸强度：≥40MPa；断裂伸长率：≥440%；
撕裂强度：≥105kN/m；工作温度：-50~80℃；
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;
3、胶轮安装钢圈端面均布8-M3X6（有效深）螺钉孔，螺钉孔节圆Ø144±0.2;
The steel ring at the end of the caster has 8 evenly spaced M3X6(effective depth) threaded holes, and the round pitch of the bolt holes is Ø 144 ± 0.2;
4、单电机最大承载：侧耳安装400kg；法兰安装700kg;Maximum single motor loading: 400KG for side ear installation, 700KG for flange installation.;
5、工作制:S3, 40%@10Min; Duty type: S3, 40%@10Min。

V1.1 减速机参数 Gear Box Data

速比 Gear ratio i1	15
容许平均输出扭矩 Permissible average output torque (N.m)	110
容许最大输出扭矩 Maximum allowable output torque (N.m)	275
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)	7000
容许轴向负载 Max. axial force Fa (N)	1500
效率 Efficiency	≥90%
背隙精度 Backgap accuracy	≤15 arcmin

V1.1 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 torque (rpm)	54
峰值转矩 Maximum torque (N.m)	92
轮径 Wheel diameter (mm)	180
轮宽 Wheel width (mm)	50
额定线速度 Rated linear speed (m/s)	1.57
输入输出 input/output	2入1出
通讯 Communicate	CAN
调试 Shakedown test	485
驱动器额定电流 Driver rated current	25Arms
驱动器峰值电流 Driver peak current	80Ap(<2s)
电机额定转速 Motor rated speed(rpm)	2500
电机额定扭矩 Motor rated torque(N.m)	4
整机重量 Overall weight (kg)	12.3
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	图纸中文说明改为中英双语说明等，详见图纸

V1.1	ECN240063	LSJ	SL	2024-04-18
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	2023-07-20
CHECK	WYD	2023-07-20
APPROVE	SL	2023-07-20
SHEET 1 OF 1		

DATE

P/NO.	307090350SS
TITLE	Outside Drawing
USED ON	iWMC10415-05417-A180-MADT
SCALE:	VER.:V1.1

KINCO

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