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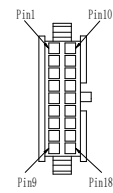
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

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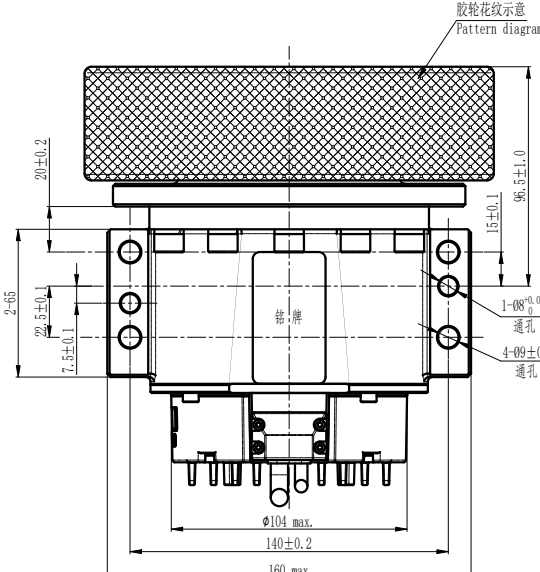
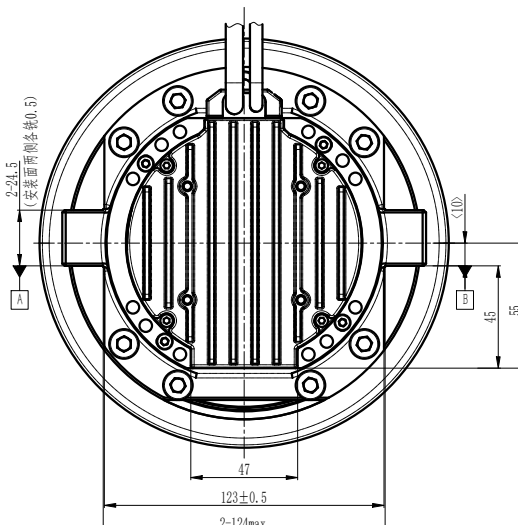
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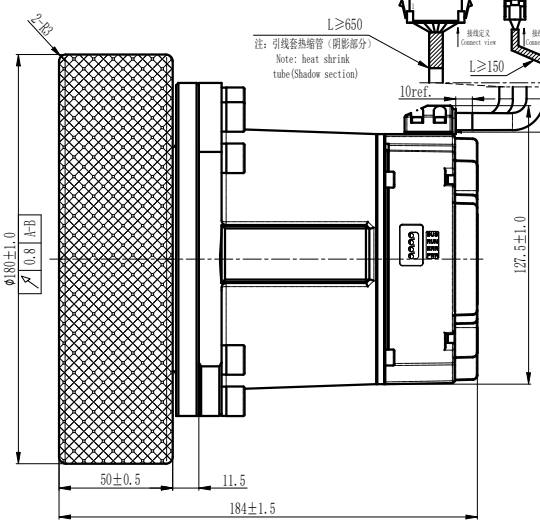
8

引线名称 Lead Name	引线号 Pin No	信号定义 Defintion	引线颜色 Colour	线径 Wire Diameter	连接器型号 Connector Models	备注 Remarks
反馈线 Feedback Wire	1	24V	RED 红色	28AWG	 胶壳 Housing: MOLEX 430201800 端子 Terminal: MOLEX 430310004	
	2	LOCK+	BN 棕色			
	3	CANH	LT GN 浅绿色			
	4	CANH	PNK 粉色			
	5	485A	GRY 灰色			
	6	485A	YLW 黄色			
	7	OUT1+	VI 紫色			
	8	COM1	WT/BN 白棕			
	9	NC				
	10	GND	BLK 黑色			
	11	LOCK-	BLU 蓝色			
	12	CANL	LBL 浅蓝色			
	13	CANL	WT/BK 白黑			
	14	485B	WHI 白色			
	15	485B	GRN 绿色			
	16	COM0	OG 橙色			
	17	DI1	WH/RD 白红			
	18	DI2	WH/OG 白橙			

引线名称 Lead Name	引线号 Pin No	信号定义 Defintion	引线颜色 Colour	线径 Wire Diameter	连接器型号 Connector Models	备注 Remarks
动力线 Power Wire	1	48V+	RED 红色	12AWG	 电源接头 Power Connector: XT60H-M	插件1 CONNECTOR 1
	2	48V-	BLK 黑色	12AWG		
	1	RB+	BN 棕色	16AWG	 胶壳 Housing: C6350HM-2P-V0 端子 Terminal: C6350M-T0e	插件2 CONNECTOR 2
	2	RB-	BLU 蓝色	16AWG		



胶轮花纹示意  
Pattern diagram

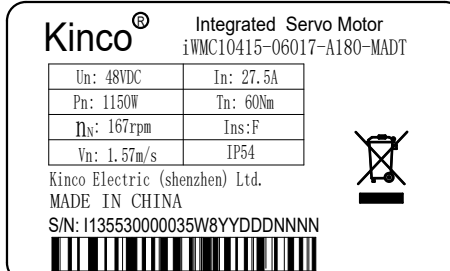


胶壳 Housing: MOLEX 430201800  
端子 Terminal: MOLEX 430310004

胶壳 Housing: C6350HM-2P-V0  
端子 Terminal: C6350M-T0e

电源接头 Power Connector  
XT60H-M

注: 引线套热缩管 (阴影部分)  
Note: heat shrink tube (Shadow section)



**Kinco** Integrated Servo Motor  
iWMC10415-06017-A180-MADT

Un: 48VDC	In: 27.5A
Ph: 1150W	Tn: 60Nm
Nn: 167rpm	Ins:F
Vn: 1.57m/s	IP54

Kinco Electric (shenzhen) Ltd.  
MADE IN CHINA  
S/N: I135530000035W8YYDDNNNN

**受控**

铭牌  
nameplate

1	2	3	4	5	6	7	8	9	10							
未注线性公差 Undeclared linear tolerance						批准 Approve		HH	2024-12-11	料号 Part No	307091487	产品外形图 Product Outline Drawing <b>Kinco 步科</b> 步科股份: 688160 <small>The copyright of this drawing belongs to our company and unauthorized dissemination is prohibited.</small>				
0.5~3		±0.2				标准化 Standard		ZY	2024-12-11	型号 Model	iWMC10415-06017-A180-MADT					
>3~6		±0.3				工艺 Technique		XC	2024-12-11	版本 Version	V1.1					
>6~30		±0.5		V1.1		更新尺寸 2 处, 详见图纸		DN250----	2025-03-25	审核 Check	WJH		比例 Scale 1:1			
>30~120		±0.8		V1.0		原始版本		新发布	2024-12-11	设计 Design	LSJ					
>120~400		±1.2		VER		Mark		版本记录 Version record	归档方式 EON No	归档日期 Date	评审 Review			姓名 Names	日期 Data	
												投影法 Projection methods		页码 Page No	Sheet 1 OF 2	A2

1	2	3	4	5	6	7	8	9	10																																	
1	技术参数 Technical Data			<div>TN 曲线图 Performance Curve</div> <div></div>						1																																
2	动力电源 Power (V)	48								2																																
	逻辑电源 Logic power (V)	24								3																																
	额定转矩 Rated torque (N.m)	60																																								
	峰值转矩 Maximum torque (N.m)	150																																								
2	轮径 Wheel diameter (mm)	180								4																																
	轮宽 Wheel width (mm)	50																																								
	额定线速度 Rated linear speed (m/s)	1.57																																								
3	输入输出 input/output	2入1出								5																																
	通讯 Communicate	CAN																																								
	调试 Shakedown test	485																																								
	驱动器额定电流 Driver rated current	27.5Arms																																								
3	驱动器峰值电流 Driver peak current	100Ap(<2s)								6																																
	电机额定转速 Motor rated speed(rpm)	2500																																								
	电机额定扭矩 Motor rated torque(N.m)	4.4																																								
	整机重量 Overall weight (kg)	12.5																																								
4	环境要求 Environmental 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.								7																																
	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																																								
5	<div>备注: </div> <div>1、胶轮材质: 聚氨酯; 防静电: 电阻<math>10^5\Omega \leq R \leq 10^9\Omega</math>; 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℃;</div> <div>wheel material: polyurethane; Anti static: resistance <math>10^5\Omega \leq R \leq 10^9\Omega</math>; Hardness: Shore 93A ± 2; Material tensile strength: ≥ 40MPa; Elongation at break: ≥ 440%; Tear strength: ≥ 105kN/m; Working temperature: -50~80 ℃;</div> <div>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;</div> <div>3、单电机最大承载: 800kg;Maximum single motor loading: 800KG;;</div> <div>4、工作制:S3, 40%10Min; Duty type: S3, 40%10Min。</div>									<div>受控</div>	<div>减速器性能参数 Reducer performance parameters</div> <table><tr><th>参数项 Parameter item</th><th>单位Unit</th><th>参数值Values</th></tr><tr><td>速比 Ratio il</td><td>/</td><td>15</td></tr><tr><td>容许额定输出扭矩 Nominal output torque</td><td>Nm</td><td>110</td></tr><tr><td>容许最大输出扭矩 Maximum output torque</td><td>Nm</td><td>275</td></tr><tr><td>容许额定输入转速 Nominal input speed</td><td>rpm</td><td>3000</td></tr><tr><td>容许最高输入转速 Maximum input speed (rpm)</td><td>r/min</td><td>6000</td></tr><tr><td>容许径向负荷 Max. radial load Fr (N)</td><td>N</td><td>7000</td></tr><tr><td>容许轴向负荷 Max. axial load Fa (N)</td><td>N</td><td>1500</td></tr><tr><td>背隙 Backlash</td><td>arcmin</td><td>≤15</td></tr><tr><td>防护等级 International Protection</td><td>/</td><td>IP54</td></tr></table>	参数项 Parameter item	单位Unit	参数值Values	速比 Ratio il	/	15	容许额定输出扭矩 Nominal output torque	Nm	110	容许最大输出扭矩 Maximum output torque	Nm	275	容许额定输入转速 Nominal input speed	rpm	3000	容许最高输入转速 Maximum input speed (rpm)	r/min	6000	容许径向负荷 Max. radial load Fr (N)	N	7000	容许轴向负荷 Max. axial load Fa (N)	N	1500	背隙 Backlash	arcmin	≤15	防护等级 International Protection	/	IP54	8
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