开环驱动器规格书(暂定)
OPEN LOOP DRIVER SPECIFICATION (TENTATIVE)

驱动器型号 MOTOR DRIVER MODEL　XNFDR9

顾客型号 CUSTOMER MODEL

1、电气特性 ELECTRICAL CHARCTERISTICS

项目/ITEM	内容/SPECIFICATION	备注/DESCRIPTION
电源电压/POWER VOLTAGE	AC 18-80V	驱动电压 DRIVER POWER SUPPLY
额定电流/RATED CURRENT	单相峰值电流最大6.0A 6.0A(PEAK)PHASE MAX.	
细分/MICROSTEP	2/4/8/16/32/64/128/256/5/10/20/25/40/50/100/200	
适用电机/SUITED MOTOR	□86 步进电机/STEP MOTOR	

2、环境特性 ENVIRONMENT CHARCTERISTICS

使用温度范围 OPERATION AMBIENT TEMPERATURE	0℃～+50℃
使用湿度范围 OPERATION AMBIENT HUMIDITY	40%RH ～ 90%RH
保存温度范围 STORAGE AMBIENT TEMPERATURE	-20℃～+65℃

3、指示灯状态 INDICATOR STATUS

颜色/COLOR	名称/NAME	功能/FUCTION
绿色/GREEN	电源指示灯/ POWER INDIATOR LAMP	通电时，绿色指示灯亮 THE POWER IS ON ,THE GREEN INDICATOR LIGHTS UP
红色/RED	报警指示灯/ ALARM INDICATOR LAMP	过流时，指示灯按一次循环闪烁 WHEN THE FLOW IS OVER THE INDICATOR LIGHTS FLICKER IN ONE CYCLE 过压时，指示灯按两次循环闪烁 WHEN THE VOLTAGE IS OVER THE INDICATOR LIGHTS FLICKER IN TWO CYCLE 欠压时，指示灯按三次循环闪烁 WHEN THE VOLTAGE IS UNDER THE INDICATOR LIGHTS FLICKER IN THREE CYCLE

4、控制信号输入(JST S06B-XASK-1) CONTROL SIGNAL INPUT PORT

端口/PORT	引脚/PIN NO	符号/SYMBOL	名称/NAME	功能/FUCTION
6 1 INPUT	6	PU+	输入信号光电隔离正端 INPUT SIGNAL PHOTO ELECTRIC ISOLATION POSITIVE END	接信号电源，+5V--+24V均可驱动，高于+5V需在PU-端接限流电阻 SIGNAL POWER SUPPLY ,+5--+24VCAN BE DRIVEN HIGHER THAN 5V THE PU-TERMINAL MUST BE CONNECTED WITH CURRENT LIMITING RESISTOR
	5	PU-	SW1=OFF时为步进脉冲信号 SW1=OFF STEP PULSE SIGNAL SW1=ON 时为正向步进脉冲信号 SW1=ON FORWARD STEP PULSE SIGNAL	下降沿有效，每当脉冲由高变低时，电机走一步，输入电阻220Ω 要求：低电平0-0.5V，高电平4-5V,脉冲宽度>2.5us THE FALLING EDGE IS FINITE AND WHEN THE PULSE CHANGES FROM HIGHTO LOW THE MOTOR TAKES ONE STEP INPUT RESISTANCE 220Ω REQUIREMENTS LOW LEVEL 0-0.5V HIGH LEVEL 4-5V,PULSE WIDTH 2.5us MIN
	4	DR+	输入信号光电隔离正端 INPUT SIGNAL PHOTO ELECTRIC ISOLATION POSITIVE END	接信号电源，+5V--+24V均可驱动，高于+5V需在DR-端接限流电阻 SIGNAL POWER SUPPLY ,+5--+24VCAN BE DRIVEN HIGHER THAN 5V THE PU-TERMINAL MUST BE CONNECTED WITH CURRENT LIMITING RESISTOR
	3	DR-	SW1=OFF时为方向控制信号 SW1=OFF DIRECTIONAL CONTRLOSIGNAL SW1=ON 时为反向步进脉冲信号 SW1=ON BACKWARD STEPPING PULSE SIGNAL	下降沿有效，每当脉冲由高变底时，电机走一步，输入电阻220Ω 要求：低电平0-0.5V，高电平4-5V,脉冲宽度>2.5us THE FALLING EDGE IS FINITE AND WHEN THE PULSE CHANGES FROM HIGHTO LOW THE MOTOR TAKES ONE STEP INPUT RESISTANCE 220Ω REQUIREMENTS LOW LEVEL 0-0.5V HIGH LEVEL 4-5V,PULSE WIDTH 2.5us MIN
	2	MF+	输入信号光电隔离正端 INPUT SIGNAL PHOTO ELECTRIC ISOLATION POSITIVE END	接+5V供电电源+5V--+24V均可驱动，高于+5V需接限流电阻 +5V POWER SUPPLY CANBE DRIVEN BY +5V--+24V AND CURRENT LIMITING RESISTOR IS HIGHER THAN +5V
	1	MF-	电机释放信号/报警清除信号 MOTOR RELEASE SIGNAL ALARM CLEARING SIGNAL	有限（低电平）关断电机线圈电流，电机处于自由状态同时报警信号清除 EFFECTIVE(LOW LEVEL)TURN OFF THE MOTOR COILCURRENT THE MOTOR IS IN FREE STATE WHILE THE ALARM SIGNAL IS CLEARED

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制图 DRAWN	设计 DESIGNED	检图 CHECKED	检印 CHECKED	比例 SCALE	--	品名 TITLE	驱动器规格书（暂定） MOTOR DRIVER SPECIFICATION(TEBTATIVE)	三角法 THIRD ANGLE PROJECTION
东莞信浓 '18-10-06 袁乙飞	东莞信浓 '18-10-06 袁乙飞	东莞信浓 2018-10-09	东莞信浓 2018-10-09			图号 DWG. NO.	Y-18-1775-0	
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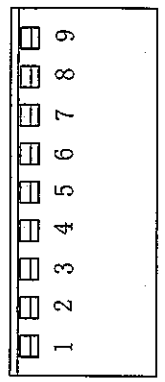
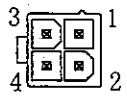
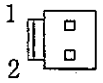
5、拨码开关/DIAL SWITCH

端口/ PORT	引脚/ PIN NO	符号/ SYMBOL	名称/ NAME	功能/FUCTION
 P&C SETTING	1	SW1	拨码开关/DIAL SWITCH	SW1-SW3:电流设置/ CURRENT SETTING TABLE
	2	SW2		
	3	SW3		
	4	SW4		SW4:锁机电流选择/ LOCK CURRENT FLOW SELECTION
	5	SW5		SW5-SW8:细分设置/ SEGMENT SETTING
	6	SW6		
	7	SW7		
	8	SW8		
	9	SW9		SW9: RESERVED

6、电机输入端口（MOLEX 5569-04)/MOTOR INPUT PORT

端口/ PORT	管脚/ PIN NO	符号/ SYMBOL	名称/ NAME	功能/FUCTION
 MOTOR	1	A-	电机接口/ MOTOR CONNECTION	两相步进电机接线口/ TWO STEPPER MOTOR CONNECTION PORTS
	2	A+		
	3	B-		
	4	B+		

7、电源输入端口（JST B2PS-VH)/MOTOR INPUT PORT

端口/ PORT	引脚/ PIN NO	符号/ SYMBOL	名称/ NAME	功能/FUCTION
 POWER	1	V-	电源接口/ POWER CONNECTION	AC 18-80V
	2	V+		

8、拨码开关电流设定 SWICH CURRENT SET

3位拨码开关，8种电流选择。/3 DIAL SWITCHES,8 CURRENT SUBDIVISION OPTIONS

REF CURRENT	PK CURRENT	SW1	SW2	SW3
2.00A	2.40A	ON	ON	ON
2.57A	3.08A	OFF	ON	ON
3.14A	3.77A	ON	OFF	ON
3.71A	4.45A	OFF	OFF	ON
4.28A	5.14A	ON	ON	OFF
4.86A	5.83A	OFF	ON	OFF
5.43A	6.52A	ON	OFF	OFF
6.00A	7.20A	OFF	OFF	OFF

9、拨码开关锁机电流选择/ LOCK CURRENT FLOW SELECTION

SW4:OFF=HALF CURRENT ON=FULL CURRENT

10、拨码开关细分设定 SWICH EXCITING SET

4位拨码开关，16种细分选择。/4 DIAL SWITCHES,16 PULSE SUBDIVISION OPTIONS

Pulse/rev	SW5	SW6	SW7	SW8
400	ON	ON	ON	ON
800	OFF	ON	ON	ON
1600	ON	OFF	ON	ON
3200	OFF	OFF	ON	ON
6400	ON	ON	OFF	ON
12800	OFF	ON	OFF	ON
25600	ON	OFF	OFF	ON
51200	OFF	OFF	OFF	ON
1000	ON	ON	ON	OFF
2000	OFF	ON	ON	OFF
4000	ON	OFF	ON	OFF
5000	OFF	OFF	ON	OFF
8000	ON	ON	OFF	OFF
10000	OFF	ON	OFF	OFF
20000	ON	OFF	OFF	OFF
40000	OFF	OFF	OFF	OFF

11,注意/NOTES:

A、不要将电源接反，输入电压不要超过AC 80V
DO NOT CONNECT THE POWER SUPPLY IN REVERSE,THE INPUT VOLTAGE SHALL NOT EXCEED AC80V

B、输入控制信号平为5V，当高于5V时需要接限流电阻/THE AVERAGE INPUT CONTROL SIGNAL IS 5V,AND THE CURRENT LIMITING RESISTANCE IS REQUIRED WHEN HIGHER THAN 5V

C、过流（电流过大，电压过高或电压过低时），故障指示灯O.C灯闪烁，请断电检查电机接线及其他短路故障或是否供电电压过低，排除后需要重新上电恢复。/WHEN THE CURRENT IS TOO HING(WHEN THE CURRENGT IS TOO HINH,THE VOLTAGE IS TOO HINH OR THE VOLTAGE IS TOO LOW),THE FAULT INDICATOR LIGHT O.C IS FLASHING.

D、驱动器通电时绿色指示灯PWR亮。/THE GREEN LIGHT PWR IS ON WHEN THE DRIVE IS ENERGIZED

E、有脉冲输入时，TM指示灯闪烁；无脉冲输入时，TM指示灯常亮。/WHEN THERE IS PULSE INPUT,TM INDICATOR LIGHTS FLASH;WHEN THERE IN NO PULSE INPUT,THE TM INDICATOR LIGHT IS ALWAYS ON

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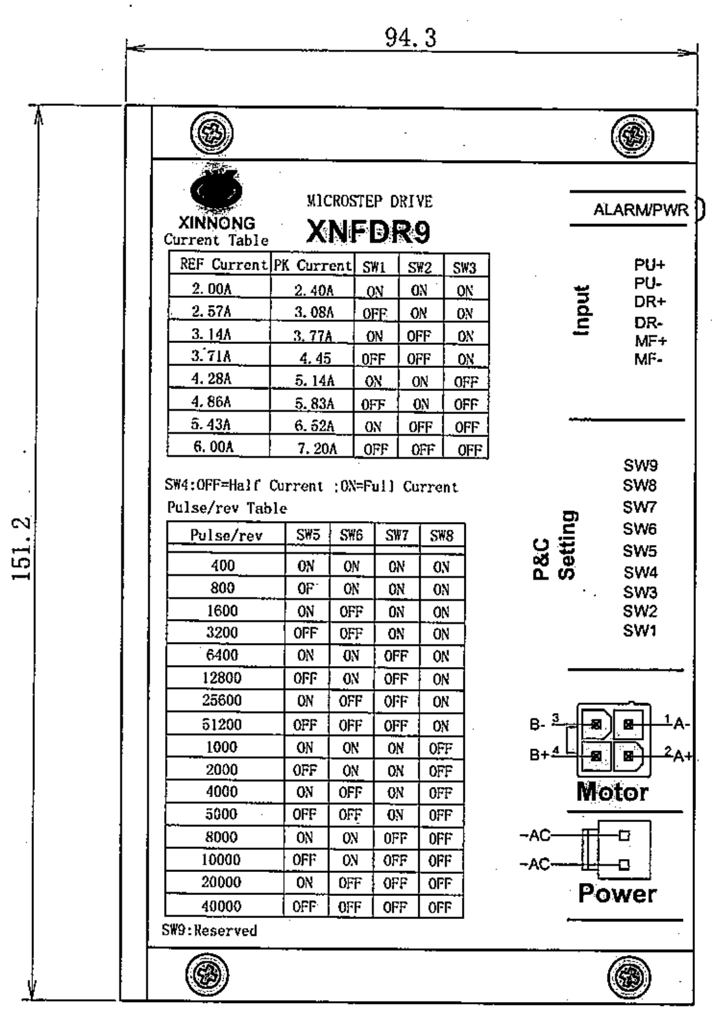

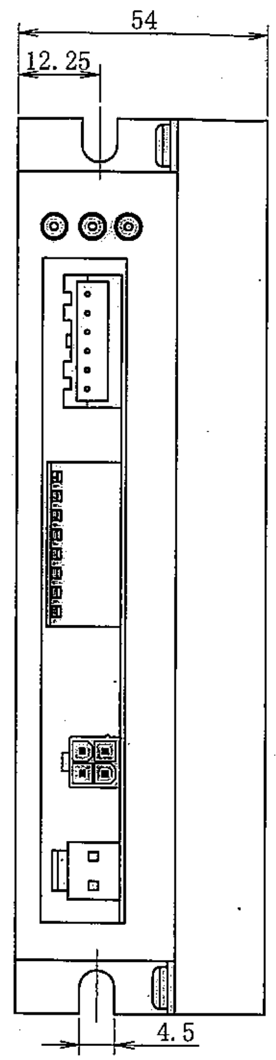

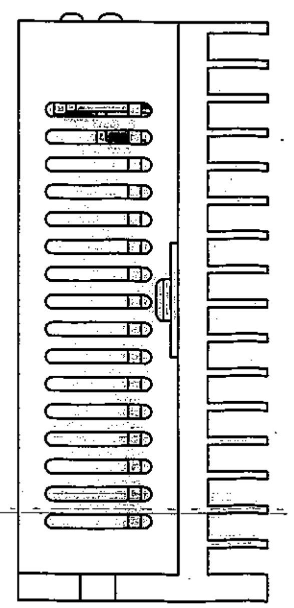

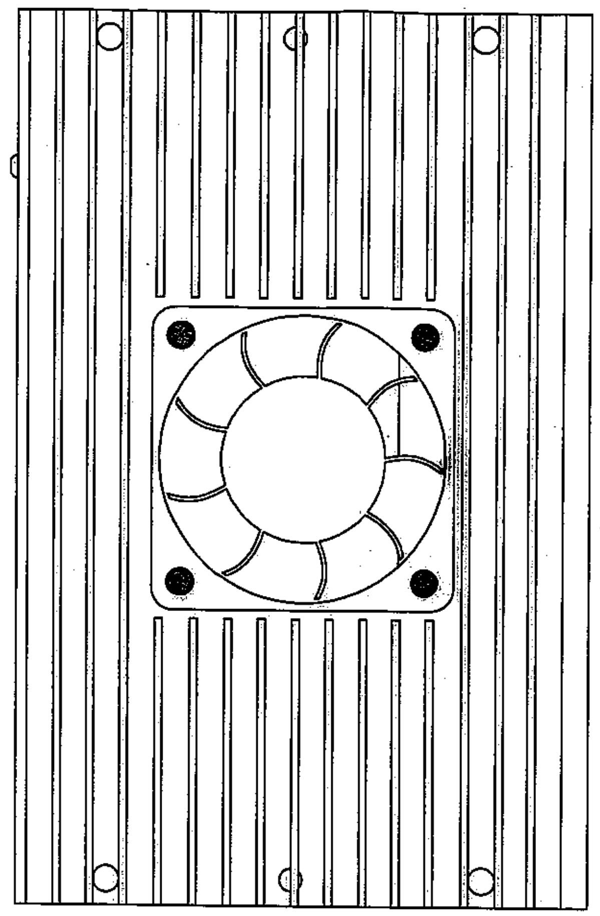

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