承认规格书

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SPECIFICATION FOR APPROVA



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CUSTOMER:

深圳市元鼎智能创新有限公司

客户料号:

CUS PART NO:

011901.0002

客户文件/版次:

CSR FILE / REVISION:

N/A

品 名:

PART NAME:

VACUUM PUMP

品 番:

MODEL:

CJVP28-AC12B22

客户签认 CUSTOMER APPROVAL SIGNATURES:

批准	确认	品保确认
APPROVED	CHECKED	QC.CHECKED

注:请在对应栏内签字,如无则填写"NA"。

REMARKS: SIGN EVERY COLUMN AND STATE "NA" IF NOT APPLICABLE.

坤锦签认 CONJOIN SIGNATURES:

品质	应用	工程
QUALITY	APPLICATION	ENGINEERING
JA AA	3/1	游戏 经

♂厦门坤锦电子科技有限公司

XIAMEN CONJOIN ELECTRONICS TECHNOLOGY CO., LTI

产品规格书 **SPECIFICATION** (CJVP28-AC12B22)

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变更履历表

Revision History

序号	修订日期	修订内容	修订单位
No.	Date	Contents	Revised by
NO.	Date		
1.0	2024-12-30	首次发行	工程部
		First Release	Engineering
1.1	2025-01-07	P7/11 8.成品图:胶壳描述由"津达 PHS-2Y(米黄色)"更新为"津	工程部
1.1	2025-01-07	达 PHS-2Y,750℃和 850℃灼热丝,米黄色"	Engineering

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1. 目的:为了规范 PUMP 产品的技术要求和试验方法及标志、包装、运输及贮存要求。

Purpose: This specification is to regulate the technical requirements of pumps, as well as requirements of tests, labeling, packaging, transportation and storage.

2. 适用范围: 本标准适用于 CJVP28-AC12B22

Scope of application: This specification applies to CJVP28-AC12B22

3. 标准工作状态:

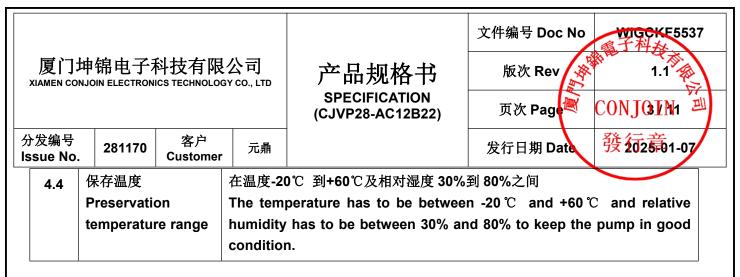
Standard Operating Conditions:

3.1	额定电压	12V DC	
	Rated Voltage		
3.2	工作电压范围	10.8~13.2 V DC	
	Operating Voltage Range	10.8~13.2 V DC	
3.3	额定负载	-15kPa	
	Rated Load		
3.4	工作温度范围	温度在+5℃ ~+45℃且相对湿度在 30%~80%之间	
	Operating Temperature	The temperature have to be between +5 ℃ and +45 ℃ and	
	Range	relative humidity between 30% and 80% to ensure the	
		normal function of pump.	
3.5	介质	空气(因使用其他非空气介质或介质异常造成的产品不良和/或其他	
3.5	Media	后果不属于产品质量问题)	
		Air (product failure and/or other results caused by media	
		other than air or abnormal media should not be categorized	
		into product quality issue)	

4. 测试条件:

Testing Conditions:

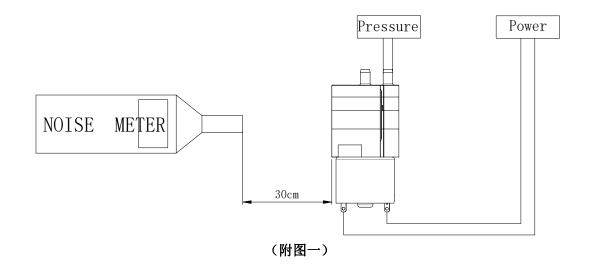
4.1	测试姿势	水平
	Position	horizontally
4.2	电源	试验电源的电压稳定无异常
	Power Supply	Regulated power supply
	环境温度湿度	测定时原则上温度为+20℃,相对湿度为65%,如无争议时应在 (+5℃ ~+30
4.3	Environmental	℃,40%~85%RH)下进行测定.
	Temperature and	Generally the test is carried out with temperature in the range of +20
	Humidity	$^{\circ}\!$
		be done under such condition(+5 $^{\circ}$ C ~ +30 $^{\circ}$ C, 40% ~ 85%RH).



5. 电气特性:

Electrical Characteristics:

5.1	空载流量	电压 DC12V,泵空载条件下的流量值	>2.5 L/Min
	Free Flow	DC12V, flow of pump operating under no load.	
5.2	负载电流	电压 DC12V,从 500cc 气罐中抽气 0~-300mmHg 过	<350mA
	Current under load	程的最大电流值	
		DC12V, max current during vacuumizing a 500cc	
		tank from 0 to-300mmHg.	
5.3	最大真空度	电压 DC12V,从 500cc 气罐中抽气所能达到的最大真空	<-50kPa
0.0	Max vacuum	度	~-50KF a
		DC12V, max vacuum achieved while vacuumizing a	
		500cc tank.	
5.4	噪音	将 pump 置于 5cm 厚的海绵垫上, 离噪音仪 30cm,在额	<68 dB
	Noise	定电压下从 500cc 气罐中抽气 0~-300mmHg 过程所测	(附图一)
		得最大 dB 值(背景噪音 35dB)	
		Place the pump on a 5cm thick sponge, 30cm away	
		from noise meter. Under rated voltage, max noise	
		recorded during vacuumizing a 500cc tank from 0	
		to -300mmHg. (with background noise 35dB)	



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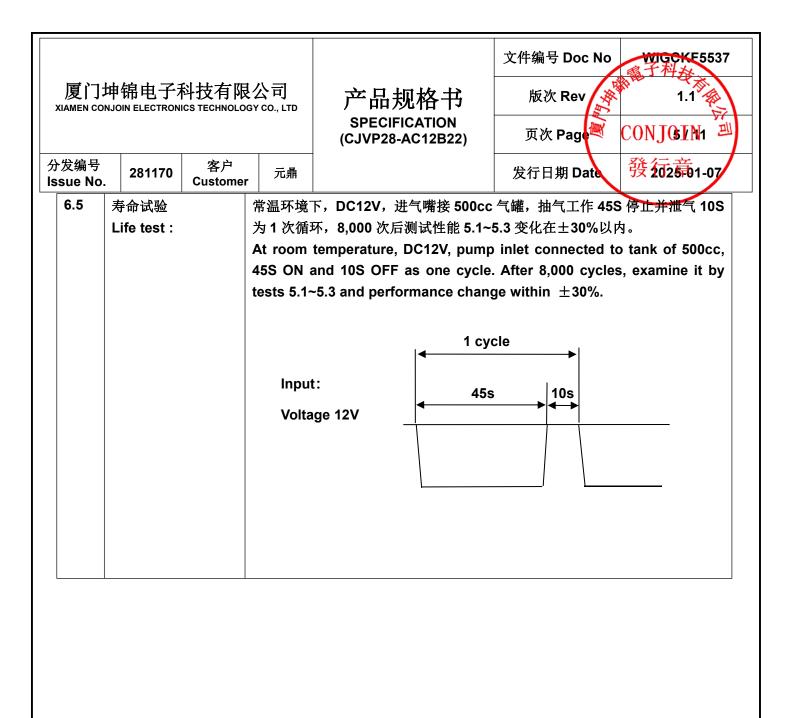
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6. 环境试验:在经过以下环境测试后,噪音应小于 75dB:

After following environmental tests, noise value less than 75dB.

6.1	低温放置试验 Low-temperature characteristic	在低温-20℃条件下放置 72H 后,取出置于 20℃±5℃条件下恢复 2H,测试 5.1~5.3 在性能规格范围内 Leave the pump at -20 ℃ for 72 hours and then return it to room temperature (20 ± 5 ℃) for 2 hours. Examine it by tests 5.1~5.3 and performance should be within specification.		
6.2	高温放置试验 High-temperature characteristic	在高温 60℃条件下放置 72H 后,取出置于 20℃±5℃条件下恢复 2H,测试 5.1~5.3 在性能规格范围内 Leave the pump at 60℃ for 72 hours and then return it to room temperature (20 ± 5℃) for 2 hours. Examine it by tests 5.1~5.3 and should be within performance specification.		
6.3	高温高湿放置试验 High-temperature & High humidity	在高温 60℃,相对湿度 80%的条件下放置 72H 后,取出置于 20℃±5℃条件下恢复 2H,测试 5.1~5.3 在性能规格范围内 Leave the pump at 60℃, RH80% for 72 hours and then return it to room temperature (20 ± 5 ℃) for 2 hours. Examine it by tests 5.1~5.3 and should be within performance specification.		
6.4	温湿度循环试验 Temperature & humidity cycle test	在低温-20℃条件下放置 24H 后,取出至于高温 60℃,相对湿度 80%的条件下放置 24H 后,取出至于 20℃±5℃条件下恢复 2H,测试性能 5.1~5.3 在规格范围内 Leave the pump at -20 $^{\circ}$ for 24 hours, then change to the environment of 60 $^{\circ}$ C, RH 80% for 24 hours, and finally place the pump at (20 \pm 5 $^{\circ}$ C) for 2 hours. Examine it by tests 5.1~5.3 and no abnormality should be found.		
		+60°C RH80% +20°C 0°C -20°C 24h 24h 24h		



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7. 其他:

Oth	ers:	
7.1	端子强度:	以 0.5Kg 砝码与端子平行负载无异常
	Motor pin tension	Hanging a 0.5Kg static load on the terminal of the pump should not
		cause damage to the pump.
7.2	落下试验	使用标准的包装方式,在水泥地上,距离 50cm 高度上分别从正面、侧面及边
	Fall test	角落下性能及结构无异常。
		Basic performance and the structure shall not be defected after
		following tests. Under standard packaging conditions, drop the carton
		at the height of 50cm on the concrete floor. Once against a corner,
		twice against edges and three times against faces.
7.3	异常试验	以 DC12V,连续 8H 通电,无发烟,燃烧等现象
	Unusual test	Connect the pump to 12V DC and work in continuation for 8hours, and
		no smoke or ignition should occur.
7.4	外观	外观无脏污,刮伤等现象
	Appearance	For appearance, no contamination, scratches, etc. should be found.
7.5	标贴	
	Labeling	Product Logo ← VACUUM PUMP → Product Name
		Rated Voltage ← DC12V
		Conjoin Part No. ← CJVP28-AC12B22
		LOT. NO. ← 2024122100016
		PT(TW.CN.JP) CONJOIN -> Company Name
7.0	华 ·	拉瓜-
7.6	生产编号	标贴二维码编码规则: CJ-X9-011901.0002-2024122100016
	Lot number	流水号: 5位数字,00001~99999
		無
		生产月: 2位数字, 01~12
		生产年: 4位数字, 2024表示2024年
		客户料号,此项标贴打印不显示 客户项目,此项标贴打印不显示
		申锦CONJOIN,此项标贴打印不显示
		* 流水县分许断码、保持唯一性即可。
		* 流水号允许断码,保持唯一性即可; The series number can be allowed the broken code just ensure its u
		* 流水号允许断码,保持唯一性即可; The series number can be allowed the broken code, just ensure its u niqueness.
7.7	马达端子	The series number can be allowed the broken code, just ensure its u niqueness.
7.7	马达端子 Motor terminal	The series number can be allowed the broken code, just ensure its u
7.7		The series number can be allowed the broken code, just ensure its u niqueness. 马达端子建议在 380℃以下的烙铁温度下焊接,并要求在 3S 内操作完成。马
7.7		The series number can be allowed the broken code, just ensure its u niqueness. 马达端子建议在 380℃以下的烙铁温度下焊接,并要求在 3S 内操作完成。马达脚作记号侧(如红点)接直流正极,正负极不可反接。 Motor terminal for soldering process,the heat temp. is suggested be
7.7		The series number can be allowed the broken code, just ensure its u niqueness. 马达端子建议在 380℃以下的烙铁温度下焊接,并要求在 3S 内操作完成。马达脚作记号侧(如红点)接直流正极,正负极不可反接。

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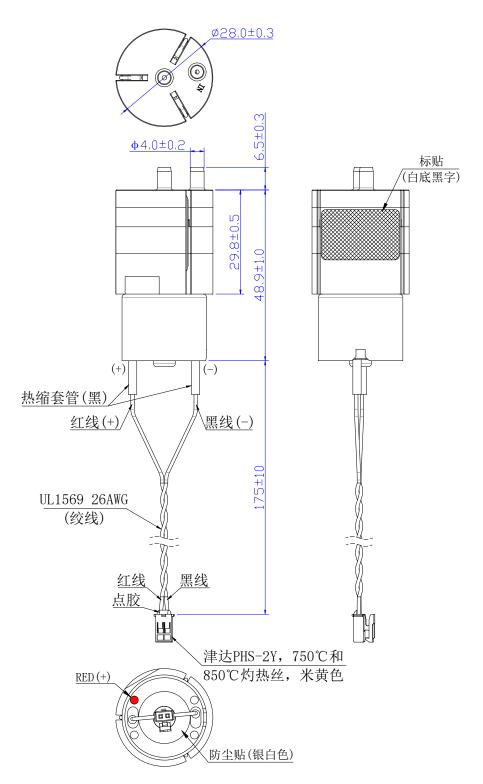
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8. 成品图:

Drawing of Finished Product



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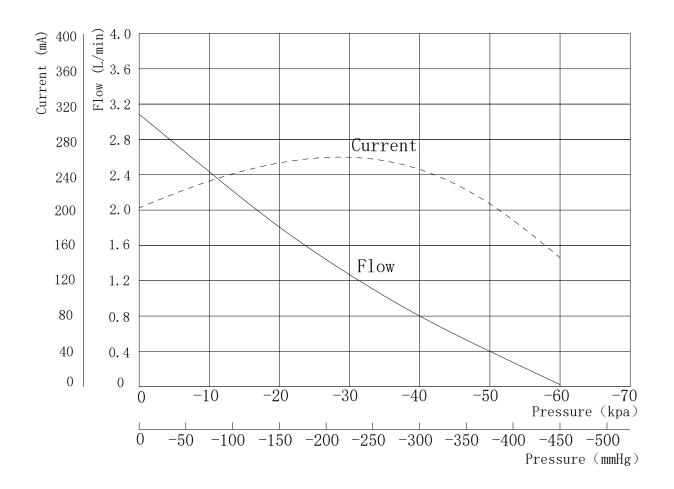
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9.产品特性图:

Product Feature Figure:



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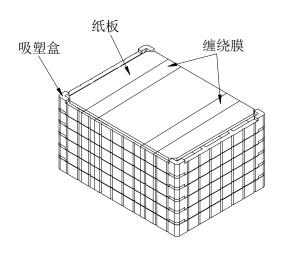
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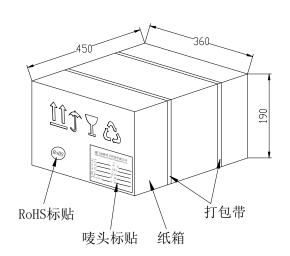
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10. 包装图:

Packaging Illustration:





包装数量:

32pcs * 6层 = 192pcs/箱

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11. 当产品生命周期终止或报废时,按当地环保法律法规执行。

When the product life cycle is terminated or scrapped, it is implemented in accordance with local environmental laws and regulations.

12. 说明:

Instruction

如对于此份规格书有任何需修改,增加,或删除的意见,须经客户及我公司双方协商。

In case, any modifications, additions, or eliminations on these specifications are necessary, decisions shall be made through the negotiations between our customers and us.

13. 使用注意事项(由以下禁止使用方法所造成泵产品功能性失效的,敝司不承担责任。)

Notes about using (Conjoin is not responsible for any pump failure caused by below prohibited improper using):

13.1 进出气嘴等泵体外表面不可接触乙醇、天那水、墨水稀释液等腐蚀性化学液体。

Contact of pump body surface (for example outlet port) with corrosive chemical liquid such as ethanol, thinner, ink thinner etc. is prohibited.

13.2 进出气嘴不可长期与 PVC 材料及其它具有腐蚀性的套管接触;建议测试及装配时使用硅胶、EPDM 等材质的 橡胶套管。

Outlet port cannot be connected to tubing of corrosive material such as PVC. For tubing used in testing and assembling, silicone rubber or EPDM material is recommended.

13.3 进气口(见成品图)必须保持进气通畅,严禁异物堵塞等造成泵产品的损害。

Good ventilation of inlet port (see drawing of finished product) should be ensured and blocking of inlet by foreign material is prohibited.

13.4 严禁带有腐蚀性的气体进入泵体以免造成泵体损害。

Corrosive gas is prohibited from entering pump body to avoid damage to pump.

13.5 使用过程中,严禁任何液体与马达底部端盖(含电刷脚、电路板)相接触以免造成泵产品损害。

During usage ,it is strictly forbided for any liquid to touch the bottom of motor(including terminal and PCB), so as not to damage the pump.

14. 马达使用环境气氛:

Surrounding Atmosphere:

14.1 正确使用和储存马达十分必要。使用和储存环境禁止存在腐蚀性气体(H₂S,PH₃, SO₂, NO₂, CL₂)或其他挥发性 的腐蚀性气体。此外,储存环境或其他配套部品不能挥发或存在有机硅 SiO2, SiC,氰物质,福尔马林,磷化物, 苯酚等系列物质,否则会导致马达不工作。

For proper operation, storage and operating environment should not contain corrosive gases e.g. H2S,PH3,SO2,NO2,CL2, and etc. In addition,storage environment should not have material that emit corrosive gases especially from silicic, cyanic, Formalin, phosphide and phenol group. In a mechanisim or a set, existence of corrosive gases may cause no rotation in motor.

14.2 如果含有低分子硅化合物和磷化合物材料附着在马达的换向器、电刷或其他部件上,在换向电弧高温作用下, 硅化合物和磷化合物材料可能会分解成 SiO2, SiC, P4O6, P4O10 或其他成分的氧化物,这些物质使换向器和 电刷之间的接触电阻迅速增加,当硅/磷化合物材料用在整机上时应非常小心。务必仔细检查所用粘合剂或密 封材料不会产生上述挥发物质,不管是用在马达安装上或客户整机产品上;特别是使用含有氰化物和硫化物气 体的粘合剂或密封材料时。

If material contain low molecular silicon and phosphide compounds, adhere to the motor's commutator, brush or other parts, then due to electric are reaction of the commutator and brush the

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materials breaks up into SiO2/SiC/P4O6/P4O10 or other constituents which produce a rapid increase In the contact resistance between the commutator and brush. Therefore grease should be taken when silicon material is used in unit and check well at the same time that such binding agents or sealing material are not generating gases of detrimental nature, whether used for motor mounting or applied during your product assembles. Care are must be taken for an optimum selection, especially when using those of cyanic adhesive and sulfur gas.

- **14.3** 熏剂(消毒剂)和它的气体将导致马达不转。因此,马达不可暴露在熏剂(消毒剂)和它的气氛中。如果包装材料和运输中使用熏剂,就必须采取特别的防护措施防止熏剂(消毒剂)和它的气体进入到马达内部。
 - Fumigant and its gas may cause no rotation in motor. Therefore motors should not be exposed to fumigant and its gas. Protection countermeasures must be taken, especially when using fumigant in packing material and transportation.
- **14.4** 要预防极端温度下的冷凝结露。马达结构结露会引起短路或漏电,设计时,要考虑到冷凝结露现象。必要时设置冷凝结露传感器来作切断主电源的保护对策。

A motor should be protected from temperature extremes which could cause condensation. This might lead to short circuit or current leakage. Condensation should be considered in set design. A safety device, such as condensation sensor, is recommended to add on set to cut off power supply.