AFE®
Electronic

IATF16949 ISO9001 ISO14001认证企业
IATF16949 ISO9001 ISO14001 certification enterprises

CX161FW

太阳能继电器
Solar relay

产品特点
- 适用于太阳能光伏发电用逆变器
Suitabil for solar photovoltaic power generation invertre
- 适用于UPS Suitable for UPS
- 触点间隙：可选常规间隙，1.5mm间隙
Contact clearance:Regular and1.5mm
- 触点与线圈间电气距离大于6.4mm,爬电距离大于8mm
The electrical distance between the contact and the coil is greatre than or equal to6.4mm,and the creepage distance is greater than or equal to 8mm
- 整机施加线圈保持电压，节省电力损耗
Apply coil holding volage to the entire machine to save power consumption
- UL绝缘等级：F级 ULinsulation class:Class F

触点负载 Contact Rating

触点形式contact form	1H
触点材料 contact material	银合金
额定负载（阻性） Rated load （Resistance)	26A 277VAC 33A 250VAC（COSΦ=0.8) 0.1s：10s
最大切换电流 Max. switching Current	33A
最大切换电压 Max. switching Voltage	277VAC
最大切换功率 Max.switching power	8250VAC
电耐久性 Electrical durability	3×10^4（26A 250VAC阻性负载 室温 1S通9S断）
机械耐久性Mechanical	1×10^6次 每小时10800次

备注：1.上述值为初始值
2.对于塑封型产品试验时，应打开外壳上的透气孔
remarks:The above values are initial values
When experimenting with plastic encapsulated products,the vent holes on the housing should be opened

额定线圈功率 Rated coil power	约：1.4W
保持电压 Hold voltage	35% to 120%Un(环境温度23℃） 45% to 80%Un(环境温度23℃）

备注：1.线圈保持电压为线圈施加额定电压100ms以上的线圈电压。
2.继电器线圈不允许长时间施加超过保持电压的上限值防止继电器过热烧毁

1.The coil holding voltage is the coil voltage applied to the coil at a rated voltage of more than 100ms
2.The relay coil is not allowed to exceed the upper lime to prevent the relay from overheating and burning out

性能参数Performance Parameter

接触电阻 Contact Resistance		≤100mΩ(6VDC/1A)
吸合时间（额定电压下） Operate Time		≤20ms
释放时间（额定电压下） Release Time		≤10ms
介质耐压 Dielectric Strength	触点与触点间BOC	2500VAC 50/60Hz 1分钟
	触点与线圈间BCC	4500VAC 50/60Hz 1分钟
浪涌电压（线圈与触点间） Surge voltage(BCC)		10KV(1.2/50us)
绝缘电阻 Insulation resistance		1000MΩ(500VDC)
工作环境温度Temperature Range		-40℃～85℃(不结冰）
湿度范围humidity		5～85%RH
线圈温升 Coil temperature rise		≤70K(触点负载31A,80%额定电压激励，环境温度85℃ ≤95K(触点负载31A,额定电压激励，环境温度60℃
抗振动vibration		10HZ～55HZ双振幅1.5mm
抗冲击 Shock	耐久 Endurance	980m/s² Min
	误动作 Error Operation	196 m/s² Min
重量Weight		约23克about23g
封装方式Type of Sealing		塑封型、防焊剂型 The flux type

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线圈参数Coil Specification (at 23℃)

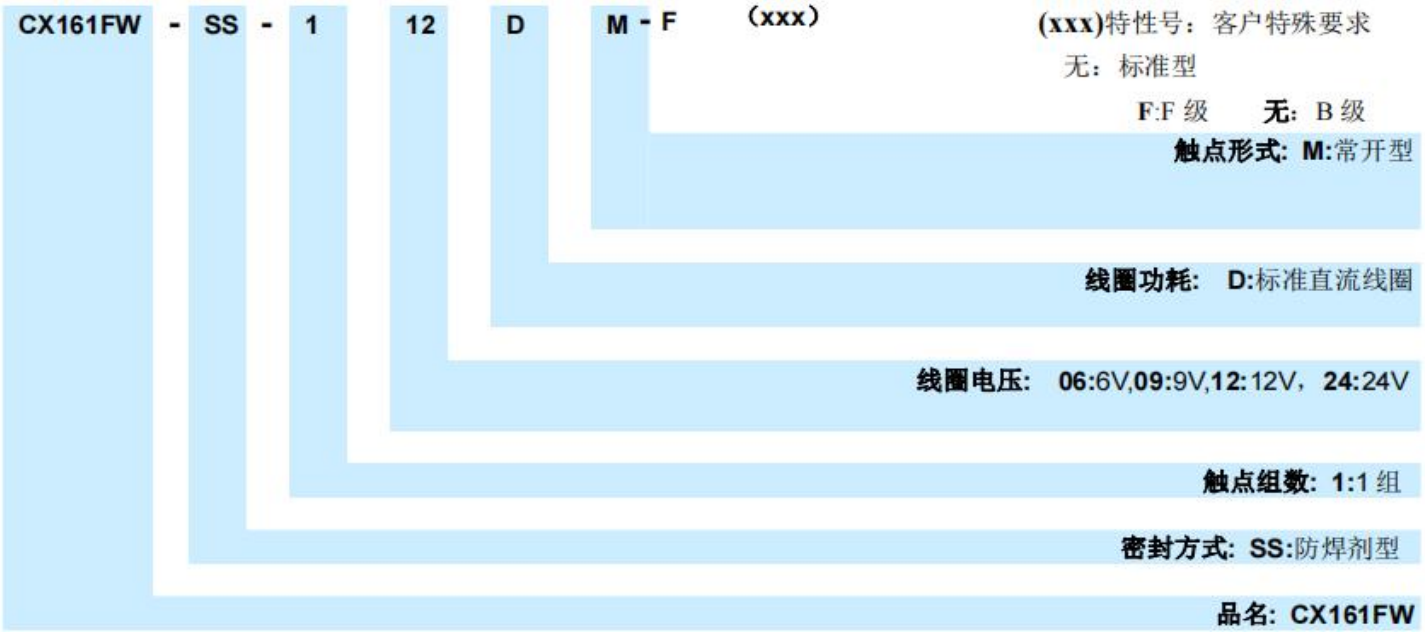
线圈灵敏度 sensitivity	额定电压 Nominal Voltage (VDC)	动作电压 Operate voltage (VDC)	释放电压 Release Voltage (VDC)	最大电压 Maximum Voltage (VDC)	线圈电阻 Coil Resistance (Ω ±10%)
CX161FW	9	≤6.75	≥0.9	10.8	58×(1±10%)
	12	≤9	≥1.2	14.4	103×(1±10%)
	18	≤13.5	≥1.8	21.6	230×(1±10%)
	24	≤18	≥2.4	28.8	410×(1±10%)

备注：1.上述值为初始值
remarks:The above values are initial values

2.最大电压是指继电器线圈在短时间内能够承受的最大值。

The maximum voltage refers to the maximum value that the relay coil can withstand in a short time

订货标记Ordering lnforma



备注 ：

1. 在洁净环境（不含H2S、SO2、NO2、粉尘等污染物）下使用时，推荐使用防焊剂型产品
2. 在污染环境（含一定量 的H2S、SO2、NO2 粉尘等污染物）下使用时建议选用塑封型产品，并请在实际使用中进行确认。
3. 当继电器装入PCB板焊接后，如需进行整体清洗或表面处理，请与我司联系，以便商定合适的焊接条件、合适的产品规格。

remarks：

(1)When using in clean enbironment （without H2S SO2 NO2 dust and other pollutants),it is recommended to Use flux resistant products

(2). When using in polluted environ ment(with a certain amount of H2S SO2 NO2dust and other pollutants), it is recom mended to use plastic encapsulated products.please confirm in actual use.

(3)After the relay is installed into the PCB board for welding, if it needs overall cleaning or surface treatment, please Contact me to negotiate the appropriate welding conditions and product specifications.

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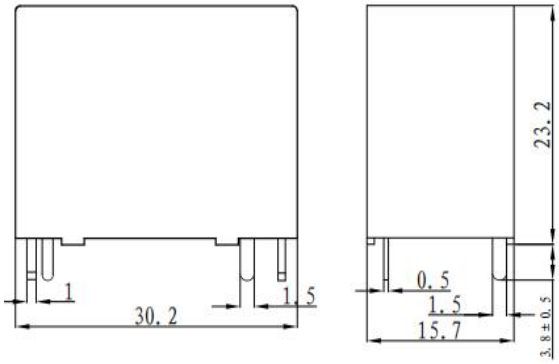
类型 category

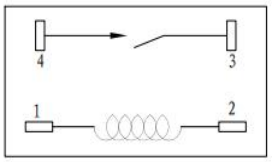
线圈灵敏度 Coil sensitivity	标准直流线圈 Standard DC coil
	1A
防焊剂型 The flux type	CX161FW-SS-1□□DMF

外形尺寸、接线、安装孔位图 Overall dimension,wiring and installation hole bitmap

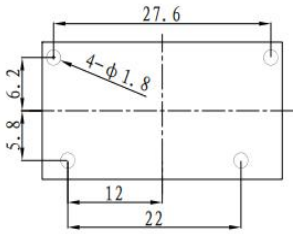
外形尺寸
Outline Dimensions



接线图(底视图）
Wiring Diagram
(Bottom view)



安装孔位图(底视图）
PCB Layout (Bottom view)



备注：

1.产品外形图的引脚标注尺寸为沾锡前尺寸（沾锡后会变大），安装孔尺寸为推荐的PCB板孔的设计尺寸，具体PCB板孔设计尺寸可根据产品实物进行测绘、调整.

2.产品部分外形尺寸未注尺寸公差，当外形尺寸≤1mm,公差为±0.2mm;当外形尺寸在（1～5）mm之间时，公差为±0.3mm；当外形尺寸＞5mm，公差为±0.4mm

3.安装孔尺寸中未注尺寸公差为±0.1mm

DISCLAIMER:

1.The pin dimension in the outline drawing or the product is the dimension before dipping tin(lt gets bigger when stained with tin)The size of mountin hole is the recommended design size of PCB hole The specific PCB hole design size can be mapped and adjusted according to the actual product

2.The overall dimension of the product il not marked with dimensional tolerance,when teh overall dimension≤1mmTolerance is±0.2mm When the overall dimension is(1～5)mm Between Tolerance is±0.3mm When the overall dimension＞5mm,Tolerance is±0.4mm

3.The dimension tolerance of mounting hole without dimension injection is ± 0.1 mm

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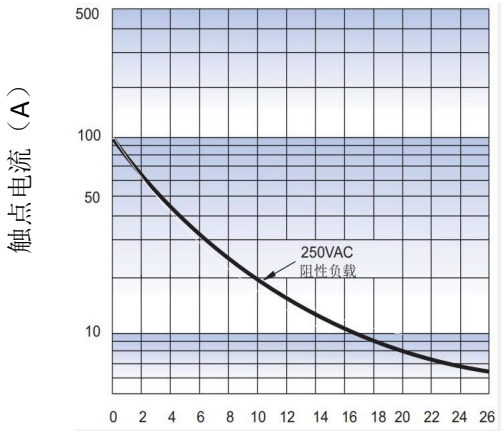
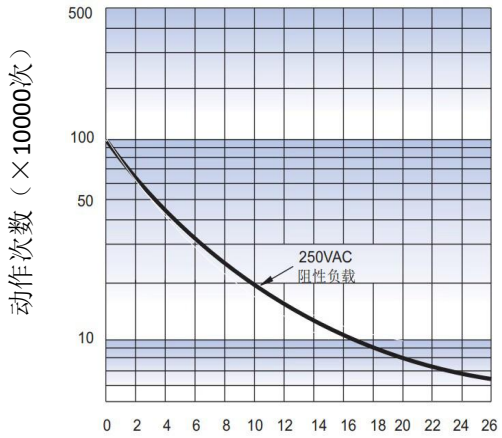
性能曲线图 Performance Curve

最大切换功率



触点电压（A）

电耐久性曲线



触点电流（A）

测试条件：75℃，1.5S通1.5S断

备注：

具体参数型号和产品性能以我司承认书为准，本产品规格书仅作参考，若有更改，恕不另行通知。

对科信而言，不可能评定继电器在每个具体应用领域的所有性能参数要求，因而客户应该根据具体的使用条件选择与之相匹配的产品。 若有疑问，请与科信联系 以便获取更多的技术支持，但产品选型责任仅由客户负责。

DISCLAIMER:

The specific parameters,models,andproduct performance shall be subject toour companys acceptance letter.Thisproduct specification sheet is for reference only and is subject to change without prior notice

For AFE, it is not possible to assess all performance requirements for relays in each specific application area and therefore the customer should select a suitable product for each specific application, please contact AFE for additional technical support. But the responsibility of product selection is only the responsibility of the customer.