

BJ-10A系列 Series

小型大功率继电器
Small high power relay



专利证书: ZL 2017 20598987.0
ZL 201820795065.3
ZL 2020212920636

产品特点

- 10A触点切换能力, 产品类型结构为1A
10A Contact switching capability, The product type structure is 1A
- 超小型 (18.3×10.2×15.2) 标准印刷版引出脚
Subminiature (18.3×10.2×15.2) standard printing plate lead out pin
- 可提供满足IEC60079系列产品. 满足TUV EN61810加强绝缘
It can provide products meeting IEC 60079 series. Meet TUV EN61810 reinforced insulation
- 塑封型和防焊剂型可选择
plastic sealing type and anti flux type are optional
- 选择耐高温环保材料, 更好的提高产品稳定性
Select high temperature resistant and environment-friendly materials to better improve the stability of products
- 符合REACH ROHS 指令, UL绝缘等级: F级
Comply with reach RoHS Directive, UL insulation class F
- BJ系列产品浪涌电压为1000V

触点负载 Contact Rating

触点形式 contact form	1A
触点材料 contact material	银合金 AgSnO2
额定负载(阻性) Rated load (Resistance)	10A/250VA/30VDC 400W 125VAC (LED)
最大切换电压 Max. switching Voltage	250VAC
最大切换电流 Max. switching Current	10A
最大切换功率 Max. switching power	1250VA
电耐久性 Electrical durability	5×10 ⁴ 次 (10A/250VAC 阻性, 室温1S ON/9S OFF)
机械耐久性Mechanical	1×10 ⁷ 次 每小时10800次

备注: 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
1. remarks: The above values are initial values
2. When experimenting with plastic encapsulated products, the vent holes on the housing should be opened

安规认证 Safety certification

UL/CUL E333244	DMF/LMF	10A 250VAC 400W 125VAC TV-5 125VAC
TUV R50183595 AK50493052	DMF/LMF	10A 250VAC/30VDC 8A 250VAC/30VDC
CQC CQC100002054547 CQC21001299286	DMF/LMF	10A 250VAC/30VDC

性能参数 Performance Parameter

绝缘电阻 Insulation resistance	1000MΩ (500VDC)
吸合时间 (额定电压下) Operate Time	≤10ms
释放时间 (额定电压下) Release Time	≤5ms
介质耐压 Dielectric Strength	断开的触点间BOC 1000VAC 50/60Hz 1分钟
	触点与线圈间BCC 4000VAC 50/60Hz 1分钟
浪涌电压 (线圈与触点间) Surge voltage (BCC)	10KV (1.2/50us)
湿度 humidity	5%~85%RH
温度范围 Temperature Range	-40℃~85℃ (不结冰) (NO freezing)
冲击 Shock	稳定性 Error Operation 98m/s ²
	强度 Endurance 980m/s ²
振动 vibration	10Hz~55Hz 1.5mm双振幅
接触电阻 Contact Resistance	≤100mΩ (1A 6VDC)
线圈温升 Coil temperature rise	35℃ Max
重量 Weight	约7克 about 7g
封装方式 Type of Sealing	防焊剂型 The flux type

典型用途 Typical use

- 自动控制 ● 调至调节器
- Auto-Control ● Adjust to regulator
- 通讯设备 ● 电脑周边设备
- Communication equipment ● Computer peripherals

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线圈参数Coil Specification (at 23 °C)

线圈灵敏度 Coil sensitivity	额定电压 Nominal Voltage (VDC)	额定电流 Rated current (mA)	线圈电阻 Coil Resistance (Ω ±10%)	额定功率 Rated power (w)	吸合电压 Pull-In Voltage (Max)	释放电压 Drop-Out Voltage (Min)	最大电压 Maximum Voltage (Max)
BJ-DMF	3	150	20	约0.45W about	额定电压的 Rated voltage 75%	额定电压的 Rated voltage 10%	额定电压的 Rated voltage 130%
	5	90	55.5				
	6	75	80				
	9	50	180				
	12	37.5	320				
	24	18.7	1280				
BJ-LMF	3	66.6	45	约0.2W about			
	5	40	125				
	6	33.3	180				
	9	22.2	405				
	12	16.6	720				
	24	8.3	2800				

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 Information

BJ	-	SS	-	1	12	D	M	F	负载等级: F:F 级 10A Load class: F:Class F 10A
									触点形式: M:常开型 NO Contact form: B:常闭型 NC 无: 转换型 CO
									线圈功耗: L: 高灵敏度直流线圈 Coil power: L:High sensitivity DC coil D: 标准直流线圈 D: standard DC coil
									线圈电压: 03:3V05:5V,06:6V,09:9V Coil oltage; 12:12V,24:24V.
									触点组数: 1:1 组 Numbe of pole:1: 1-One pole
									密封方式: SS:防焊剂型 Type of sealing:SS:The flux type
									品名: BJ Model: BJ

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
在污染焊剂（含一定量的H₂S、SO₂、NO₂粉尘等污染物）下使用时建议选用塑封产品，并请在实际使用中进行确
2. 当继电器装入PCB版焊接后，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、合格的产品规格。
3. 对于需要符合“IEC60079系列”防爆要求的产品，下单时请在型号规格后备注[EX]，我会在产品外壳加印“EX”标识加以区分。
因不是所有规格产品都具有防爆认证，有需要时请与我司联系，以便确定合适的产品

remarks:

1. When using in clean enbironment (without H₂S SO₂ NO₂ dust and other pollutants), it is recommended to Use flux resistant products. 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.
2. 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.
3. For products that need to meet the explosino-proof requirements of the IEC60079 series,please indicate[EX]after the modelspecifications when placing anorder.Our company will mark the product shell with the"EX"mark to distinguish it. Since not all specifications of products have explosion-proof certification,please contact our company if necessary to determine suitable products;

BJ-10A系列 Seris

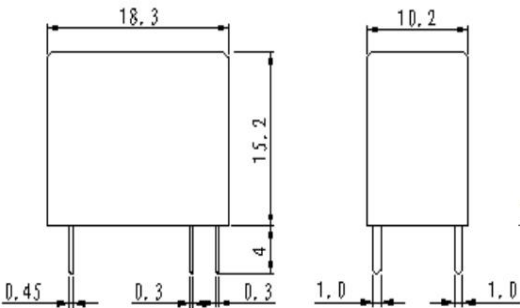
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类别category

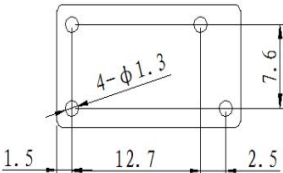
型号 model	BJ	
线圈灵敏度 Coil sensitivity	标准直流线圈 Standard DC coil	高灵敏度直流线圈 High sensitivity DC coil
防焊剂型 The flux type	BJ-SS-1□□DMF	BJ-SS-1□□LMF

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

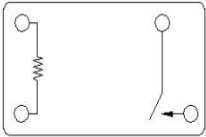
外形尺寸
Outline Dimensions



安装孔位图(底视图)
PCB Layout (Bottom view)



接线图(底视图)
Wiring Diagram (Bottom view)



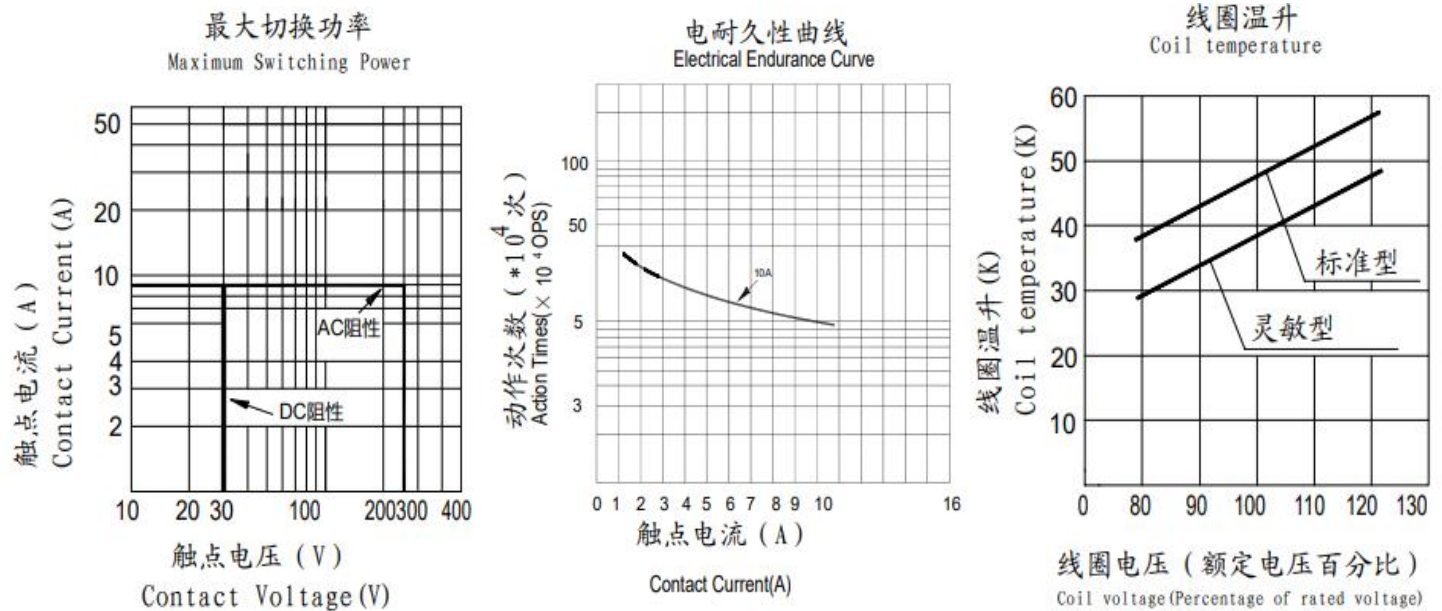
备注:

- 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。
- 产品部分外形尺寸未注尺寸公差，当外形尺寸 $\leq 1\text{mm}$ ，公差为 $\pm 0.2\text{mm}$ ；当外形尺寸在 $(1\sim 5)\text{mm}$ 之间时，公差为 $\pm 0.3\text{mm}$ ；当外形尺寸 $> 5\text{mm}$ ，公差为 $\pm 0.4\text{mm}$
- 安装孔尺寸中未注尺寸公差为 $\pm 0.1\text{mm}$

DISCLAIMER:

- The pin dimension in the outline drawing or the product is the dimension before dipping tin(it 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
- The overall dimension of the product il not marked with dimensional tolerance,when teh overall dimension $\leq 1\text{mm}$ Tolerance is $\pm 0.2\text{mm}$ When the overall dimension is $(1\sim 5)\text{mm}$ Between Tolerance is $\pm 0.3\text{mm}$ When the overall dimension $> 5\text{mm}$,Tolerance is $\pm 0.4\text{mm}$
- The dimension tolerance of mounting hole without dimension injection is $\pm 0.1\text{ mm}$

性能曲线图 Performance Curve



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, and product performance shall be subject to our company's acceptance letter. This product 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.