AFE®
Electronic

IATF16949 ISO9001 ISO14001认证企业
IATF16949 ISO9001 ISO14001 certification enterprises

BPM3系列 Seris

小型大功率继电器
Small high power relay

专利证书:ZL 2019207391786

产品特点

●高触点容量20A触点切换能力，产品类型结构为1A/1B/1C
High contac capacity 20A Contact swiching capability,The product type structure is 1A/1B/1C

●线圈与触点间耐压为5KV
The withstand voltage between coil and contact is 5kV

●超小型（29.2×12.8×20.4）标准印刷版引出脚
Subminiature(29.2×12.8×20.4)standad pinting plate lead out pin

●塑封型和防焊剂型可选择
plastis 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 improe the stability of products

●符合REACH ROHS 指令,UL绝缘等级：F级
Comply with reach RoHS Directive.UL insulation coass F

●BPM3系列产品浪涌电压为10000V
The surge voltage of BPM3series products is 10000V

触点负载 Contact Rating

触点形式 contact form	1A 1B 1C
触点材料 contact material	银合金 AgSnO2
最大切换电压 Max. switching Voltage	277VAC/30VDC
额定负载(阻性） Rated load (Resistance)	16A 277VAC/30VDC 20A 125VAC TV-8 125VAC 1HP 240VAC
最大切换电流 Max. switching Current	20A
最大切换功率 Max.switching power	4432VA/480W
电耐久性 Electrical durability	1A:5×10^{4}次 16A 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 E356168	16A 277VAC 20A 125VAC TV-8 125VAC 1HP 240VAX
CQC CQC20002245152	16A 250VAC

性能参数Performance Parameter

绝缘电阻 Insulation resistance		500MΩ(500VDC)
吸合时间（额定电压下） Operate Time		≤15ms
释放时间（额定电压下） Release Time		≤8ms
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	5000VAC 50/60Hz 1分钟
湿度 humidity		5%～85%RH
温度范围Temperature Range		-40℃～105℃（不结冰） (NO freezing)
冲击 Shock	稳定性 Error Operation	98m/s^2 Min
	强度Endurance	980m/s^2 Min
接触电阻 Contact Resistance		≤100mΩ(1A 6VDC)
浪涌电压（线圈与触点间） Surge voltage(BCC)		10KV(1.2/50us)
振动vibration		10Hz～55Hz 1.5mm双振幅
线圈温升Coil temperature rise		35℃ Max
封装方式Type of Sealing		防焊剂型The flux type
重量Weight		约13克 about13g

典型用途 Typical use

●家用电器：空调、洗衣机、微波炉、音响、显示器等。
Household appliances:airconditioner,washing machine,microwave oven,display,etc

●工业控制、仪器仪表等。
Industrial control,instrumentationetc

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线圈参数Coil Specification (at 23 ℃)

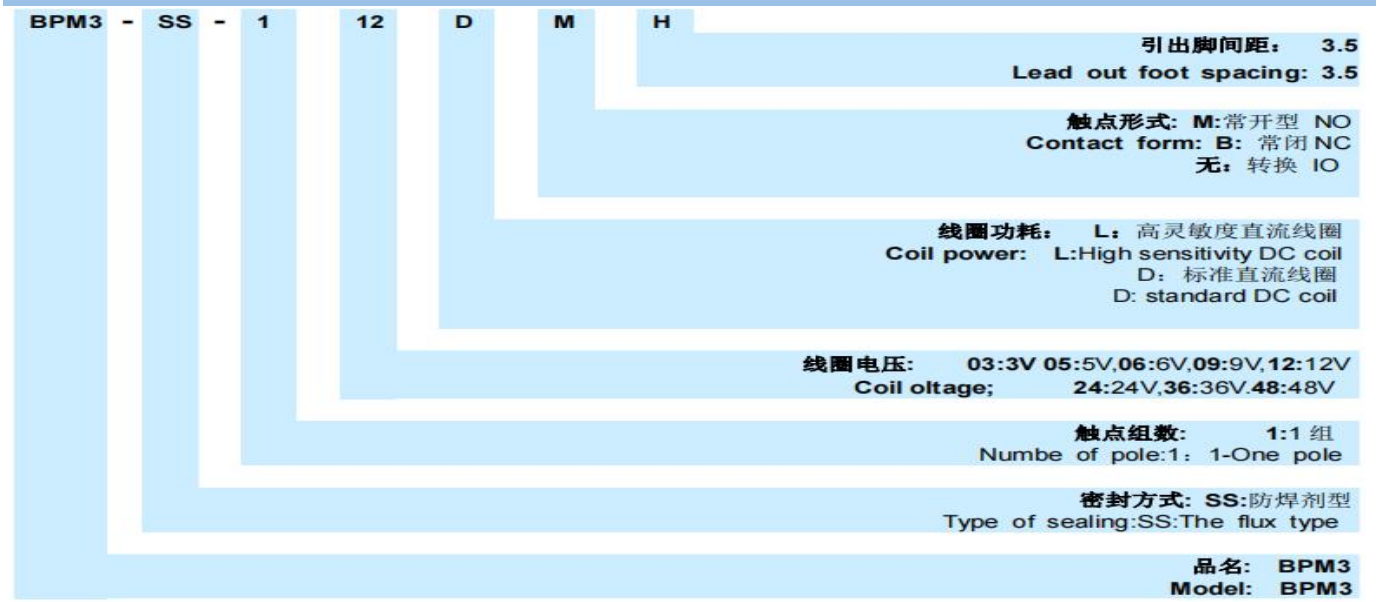
线圈灵敏度 Coil sensitivity	额定电压 Nominal Voltage (VDC)	额定电流 Rated current (mA)	线圈电阻 Coil Resistance (Ω ±10%)	额定功率 Rated power (w)	吸合电压 Pull-In Voltage (Max)	释放电压 Drop-Out Voltage (Min)	最大电压 Maximum Voltage (Max)
BPM3-L BPM3-LM BPM3-LH BPM-LMH	3	180	17	约0.54W about	额定电压的 Rated voltage 75%	额定电压的 Rated voltage 10%	额定电压的 Rated voltage 130%
	5	108	46				
	6	90	67				
	9	60	150				
	12	45	267				
	24	22.5	1067				
	48	11.2	4267				

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 lnformation



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

3.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。

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.

类型

型号	BPM3			
线圈灵敏度 Coil sensitivity	标准直流线圈 Standare DC coil			
	1C		1A	
防焊剂型 The flux type	BPM3-SS-1□□L	BPM3-SS-1□□LH	BPM3-SS-1□□LM	BPM3-SS-1□□LMH

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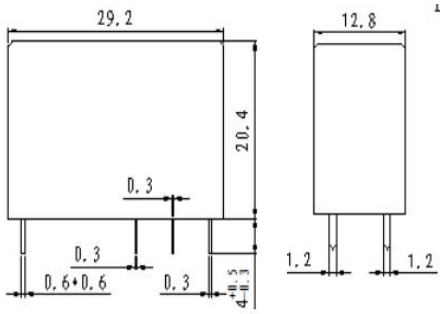
外形尺寸、接线、安装孔位图
Overall dimension,wiring and installation hole bitmap

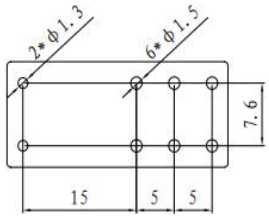
外形尺寸
Outline Dimensions

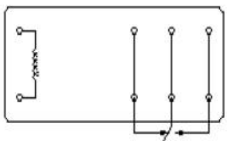
安装孔位图(底视图）
PCB Layout (Bottom view)

接线图(底视图）
Wiring Diagram
(Bottom view)

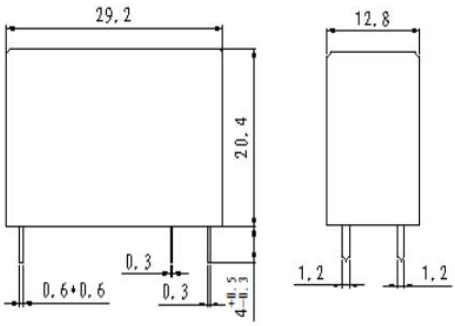
BPM3-SS-L

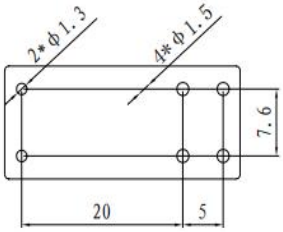


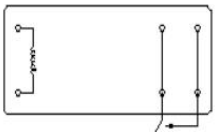




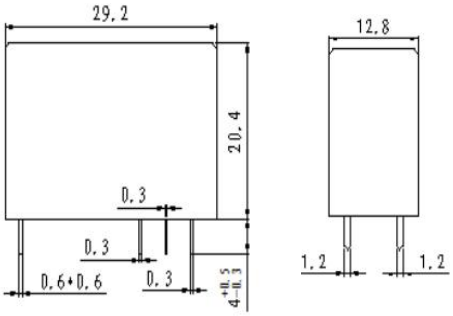
BPM3-SS-LM

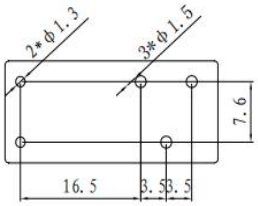


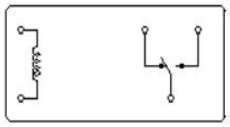




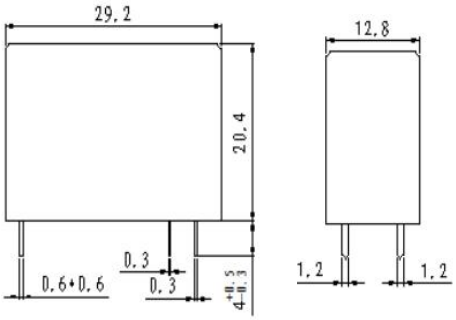
BPM3-SS-LH

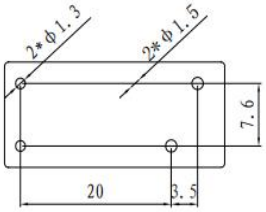


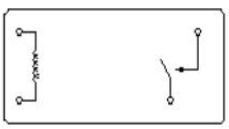




BPM3-SS-LMH







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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

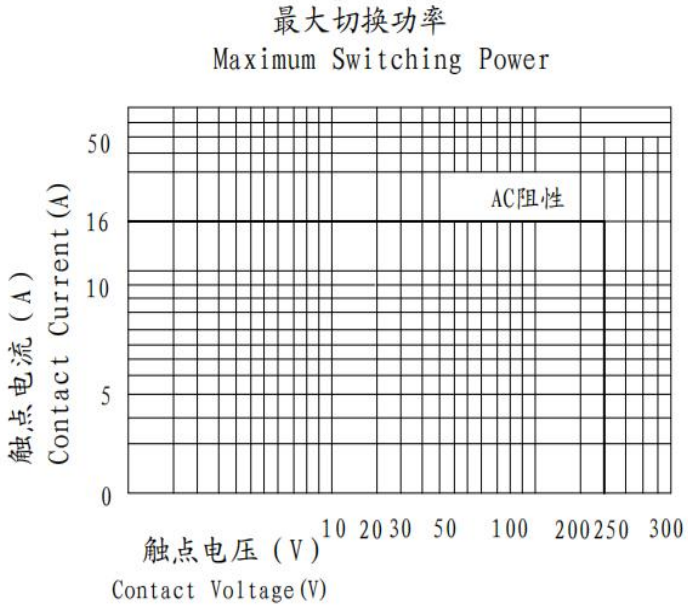
DISCLAIMER:

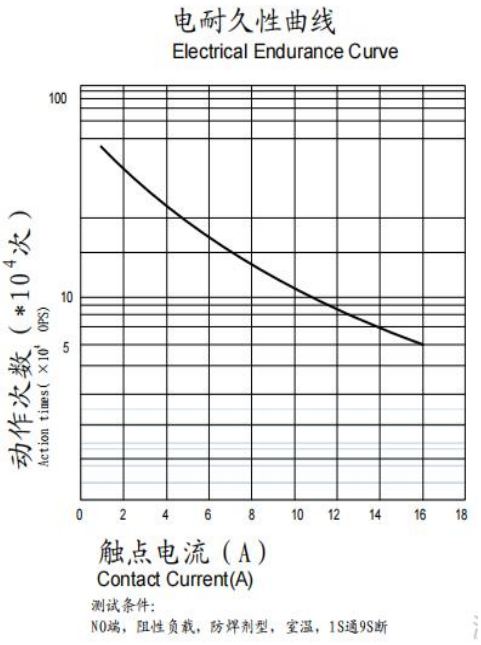
1.The pin dimension in the outline drawing or the product is the dimension before dipping tin(lt gets bigger when stained with tin)The size of mountin hole is the recommended design size of PCB hole The specific PCB hole design size can be mapped and adjusted according to the actual product

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

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,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.