



特 性 FEATURES

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| ● 外形尺寸 L65×W45.9×H56mm | Dimensions L65×W45.9× H56mm |
| ● 可实现 320A 1000VAC 的高容量控制 | High capacity control of 320A 1000VAC |
| ● 触点间隙≥ 4.1mm(符合欧洲的太阳能发电标准"IEC 60947") | Contact clearance ≥4.1mm(Complies with the european solar power standard "IEC 60947") |
| ● 适用于光伏逆变器领域 | Suitable for photovoltaic inverter field |
| ● 可提供带辅助触点规格产品 | Provide products with auxiliary contact specifications |

触点参数 CONTACT PARAMETERS

触点形式 Contact Arrangement		1A、1A1b
触点材料 Contact Material		银合金 Silver Alloy
接触电阻 Contact Resistance(初始 Initial)		主触点 Main contact: $\leq 0.5m\Omega$ (@20A 6VDC 压降法测试) $\leq 0.3m\Omega$ (@320A 6VDC 压降法测试)
		辅助触点 Auxiliary contact: $\leq 100m\Omega$ (@1A 6VDC)
最大切换电流 Max. Switching Current	—	-H
	主 触 点 Main Contact	320A
	辅助触点 Auxiliary Contact	1B
最大切换电压 Max. Switching Voltage	主 触 点 Main Contact	1000VAC
	辅助触点 Auxiliary Contact	277VAC/30VDC
最大切换功率 Max. Switching Power	主 触 点 Main Contact	320000VA
	辅助触点 Auxiliary Contact	277VA/30W
电气寿命 ¹⁾ Electrical Life	主触点 Main Contact	AgSnO ₂ $\geq 1 \times 10^4$ 次 Ops (接通 Making 55A, 载流 loading 320A, 断开 breaking 55A, 1000VAC, 阻性 Res. Load, 85℃, 1s 通 On: 9s 断 Off)
	辅 助 触 点 Auxiliary Contact	$\geq 1 \times 10^5$ 次 Ops (1A 277VAC/30VDC, 阻性 Res. Load, 85℃, 1s 通 On: 9s 断 Off)
机械寿命 Mechanical Life		$\geq 3 \times 10^5$ 次 Ops

性能参数 CHARACTERISTICS

绝缘电阻 Insulation Resistance	1000MΩ (500VDC)
介质耐压 Dielectric Strength	线圈与主触点间 Between coil & main contacts: 5000Vrms 1min
	断开主触点间 Between open main contacts: 2500Vrms 1min
	主触点与辅助触点间 Between main contacts & auxiliary contacts: 5000Vrms 1min
	线圈与辅助触点间 Between coil & auxiliary contacts: 1000Vrms 1min
	断开辅助触点间 Between open auxiliary contacts: 1000Vrms 1min
浪涌电压 Surge Voltage	10kV (1.2/50us)
动作时间 Operate Time	$\leq 25ms$ (@23℃)
	$\leq 30ms$ (@85℃)
释放时间 Release Time	$\leq 5ms$
环境温度 Ambient Temperature	-40℃~+85℃
振 动 Vibration Resistance	10Hz~55Hz 1.0mm 双振幅(DA)
冲 击 Shock Resistance	稳定性 Functional: 98m/s ² (10G)
	强 度 Destructive: 980m/s ² (100G)
引出端方式 Terminal Form	印制板式 PCB
封装形式 Construction	防焊剂型 Flux Proofed, 塑封型 Sealed
重 量 Unit Weight	不带散热器 Without heat sink: 约 Approx. 230g
	带散热器 With heat sink: 约 Approx. 235g

线圈规格表 COIL DATA (@23℃)

额定电压 Rated Voltage VDC	动作电压 Operate Voltage VDC	释放电压 Release Voltage VDC	最大允许电压 Max. Voltage VDC	线圈电阻 Coil Resistance $\Omega \pm 10\%$	线圈功耗 Coil Power W
6	≤ 4.5	≥ 0.3	7.2	7.2	约 Approx. 5.0
9	≤ 6.75	≥ 0.45	10.8	16.2	
12	≤ 9.0	≥ 0.6	14.4	28.8	
24	≤ 18	≥ 1.2	28.8	115.2	

线圈保持电压 COIL HOLDING VOLTAGE

线圈功耗 Coil Power	5.0W
保持电压 Holding Voltage	50% to 60% U_N (at 23℃/85℃)

备注 Notes:

1) 为保证继电器可靠动作, 激励时先给线圈施加 100%~120%额定电压, 持续时间 200ms, 然后必须降至保持电压进行保持 To energize relay properly apply 100%~120% rated voltage for 200ms, and then it must reduced to holding voltage.

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。The relay coil is not allowed to exceed the upper limit of the holding voltage for a long time, preventing the relay from overheating and burning.

安全认证 APPROVALS

安全认证 Approvals	UL	VDE	CQC
证书编号 Certificate No.	认证中	认证中	认证中
认证负载 Certification Load	1×10 ⁴ 次 Ops, 阻性 Resistive. 接通 Making 55A, 载流 Loading 320A, 断开 Breaking 55A, 1000VAC, 85℃	1×10 ⁴ 次 Ops, 阻性 Resistive. 接通 Making 55A, 载流 Loading 320A, 断开 Breaking 55A, 1000VAC, 85℃	1×10 ⁴ 次 Ops, 阻性 Resistive. 接通 Making 55A, 载流 Loading 320A, 断开 Breaking 55A, 1000VAC, 85℃

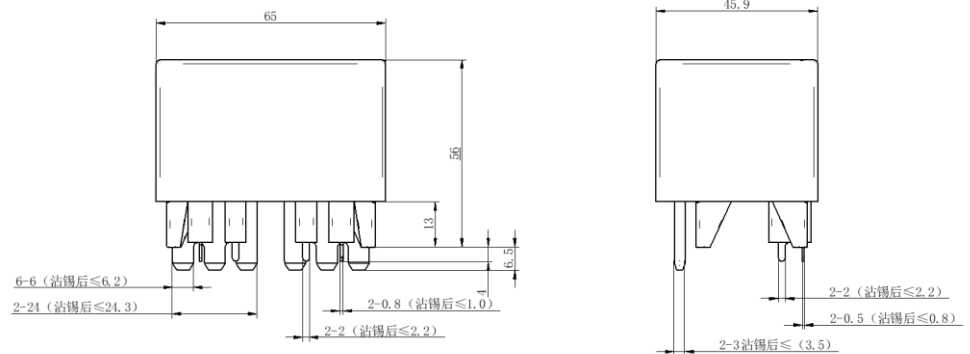
订货标记示例 ORDERING INFORMATION

	ME125	-S	-1A	1b	-J	1	F	L	5W	12VDC
产品型号 Model	ME125									
产品结构 Structure	S: 塑封型 Sealed 无 Ni: 防尘罩型 Dust protected									
主触点 Main Contact	1A: 1组常开 1 NO									
辅助触点 Auxiliary Contact	无 nil: 不带辅助触点 Without Auxiliary Contact b: 带 1 组常闭辅助触点 With One Group of Auxiliary Contact									
额定负载 Rated Load	无 nil: 270A; L: 200A; J: 300A; H: 320A									
触点材质 Contact Material	1: AgSnO ₂ /Cu; 2: AgNi/Cu									
绝缘等级 Insulation Class	F: F 级 Class									
特殊代号 Special Code	无 nil: 不带散热器 Without Heat Sink; L: 带散热器 With Heat Sink									
线圈功率 Coil Power	3W: 3W; 5W: 5W									
线圈电压	6VDC; 9VDC; 12VDC; 24VDC									

外形尺寸、接线图、安装尺寸 OUTLINE DIMENSIONS, WIRING DIAGRAM AND PCB LAYOUT (单位 Unit: mm)

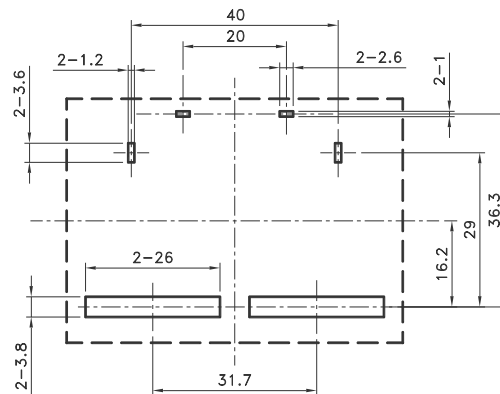
外形尺寸 Outline Dimensions

● ME125-S-1A1b-H□F□:

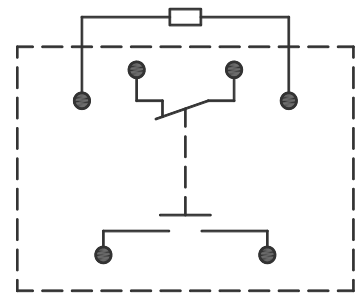


安装孔尺寸 PCB Layout
(底视 Bottom View)

● ME125-S-1A1b-H□F□:



接线图 Wiring Diagram
(底视 Bottom View)



备注 Notes:

1) 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 1~5mm 之间时, 公差为±0.3mm; 当外形尺寸>5mm 时, 公差为±0.4mm。

In case of no tolerance shown in outline dimension: outline dimension ≤1mm, tolerance should be ±0.2mm; outline dimension >1mm and ≤5mm, tolerance should be ±0.3mm; outline dimension >5mm, tolerance should be ±0.4mm;

2) 线安装孔尺寸中未注尺寸公差的均为±0.1mm。

The tolerance without indicating for PCB layout is always ±0.1mm.

声明 STATEMENT

1. 本产品规格书仅供客户使用时参考, 若有更改, 恕不另行通知。

This product specification for client's reference, if any change without notice.

2. 对美硕而言, 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, 请与美硕联系获取更多的技术支持。但产品选型责任仅由客户负责。

For MEISHUO, cannot require evaluation of relays in each specific application of all the performance parameters, so customers should be selected according to the matching conditions for the use of specific products, if you have any questions, please contact us and get more technical support. However, product selection responsibility only by the customer.