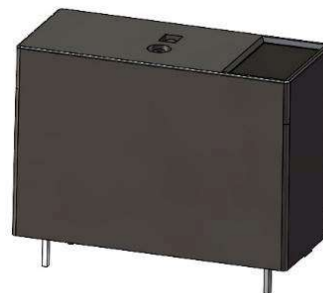


ST115D

PCB通用直流功率继电器 PCB General DC Power Relay

特性 Features

- 10A 300VDC负载开闭能力 10A 300VDC switching capability
- 常闭侧4A 300VDC负载开闭能力 NC 4A 300VDC switching capability
- 5kV介电强度(线圈与触点之间) 5kV dielectric strength (between coil and contacts)
- 满足加强绝缘要求 Reinforce insulation available
- UL绝缘系统:F级可选 UL insulation system: Class F available
- 环保产品(符合RoHS标准) Environmental friendly product (RoHS compliant)
- 尺寸: 29.0 x 12.7 x 20 mm Dimensions: 29.0 x 12.7 x 20 mm



典型应用 Application

- 光伏发电系统/太阳能逆变器/电力系统等。 Photovoltaic Power Generation System/Solar Photovoltaic Inverter/Power System, etc.

触点参数 Contact Data

触点形式 Contact Arrangement	1A	1B
触点负载 Contact Rating	10A 300VDC	4A 300VDC
最大切换电压 Max. Switching Voltage	500VDC	300VDC
最大切换电流 Max. Switching Current	16A	4A
触点材质 Contact Material	银合金 Ag alloy	
接触电阻 Contact Resistance	Max.100mΩ (1A 6VDC)	
动作/释放时间 Operate Time/ Release Time	≤10ms/≤5ms	
电耐久性 Electrical Endurance	ON:OFF=1s:9s, R-Load, @85°C	
	1*10 ⁴ ops 10A 300VDC	1*10 ⁵ ops 4A 300VDC
	1*10 ⁵ ops 10A 220VDC	
机械耐久性 Mechanical Endurance	2*10 ⁶ ops.	
最大切换功率 Max. Switching Power	3000W	1200W

线圈参数 Coil Data

线圈电压范围 Coil Voltage Range	5~25 VDC
容许最大电压 Max. Continuous	额定电压的120% 120% of Rated Voltage
线圈绝缘等级 Coil Insulation System	Class F
额定线圈功率 Coil Rating Power	NO: 约Approx. 0.4W NC: 约Approx. 0.6W

注:

- a) 所有数值均为在环境温度+23°C下未预通电的线圈 All the performance data are for coils that are not pre energized at 23°C ambient temperature.

性能参数 Characteristics

绝缘电阻 Insulation Resistance		1000MΩ Min (at 500VDC)
介质耐压 Dielectric Strength	断开触点间 Between Open Contacts	1500Vrms 1min
	触点组之间 Between Contact Sets	/
	线圈与触点间 Between Coil and Contact	5000Vrms 1min
浪涌电压 Surge Voltage	线圈与触点间 Between Coil and Contact	10kV (1.2 / 50μs)
温度范围 Temperature Range		-40~+85°C
湿度 Ambient Operating Humidity		5% ~ 85%RH
振动 Vibration Resistance		10~150Hz 100/50 m/s ²
冲击 Shock	稳定性 Functional	10G
	强度 Destructive	100G
重量 Weight		Approx.15g

线圈规格 Coil Voltage Specifications

额定电压 Nominal Coil	动作电压 Must Operate	释放电压 Release Coil	线圈电阻 Coil Resistance Ω(±10%)	
			1A(NO)	1B(NC)
VDC	VDC	VDC		
5	3.75	0.5	62	41
6	4.50	0.6	90	60
9	6.75	0.9	202	135
12	9.00	1.2	360	240
18	13.5	1.8	810	540
24	18.0	2.4	1440	960

注:

- a) 以上值为初始值 All the performance data are initial values.
- b) 线圈电阻是在线圈温度23°C, 公差为±10% Coil resistance is tested at 23°C ambient temperature, ±10% tolerance.

ST115D PCB通用直流功率继电器 PCB General DC Power Relay

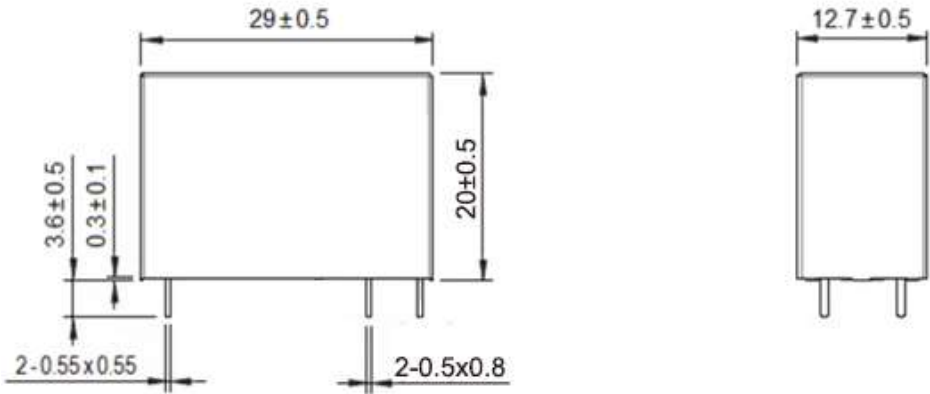
型号命名标准 Model Number Legend

	ST115D	-1A	-12	S	,XXX
基本型号 Basic Type:	ST115D				
触点结构 Contact Arrangement:	1A: 1组常开 1 Form A; 1B:1组常闭 1 Form B				
线圈电压 Coil Voltage:	5, 6, 9, 12, 18, 24VDC				
防护构造 Protective Construction:	Blank: 耐助焊剂型 Flux Tight; S: 塑料密封型 Plastic Sealed				
特殊特性 Special Characteristic:	Blank: 标准型 Standard; XXX: 客户特殊特性号 Customer Special Feature Number				

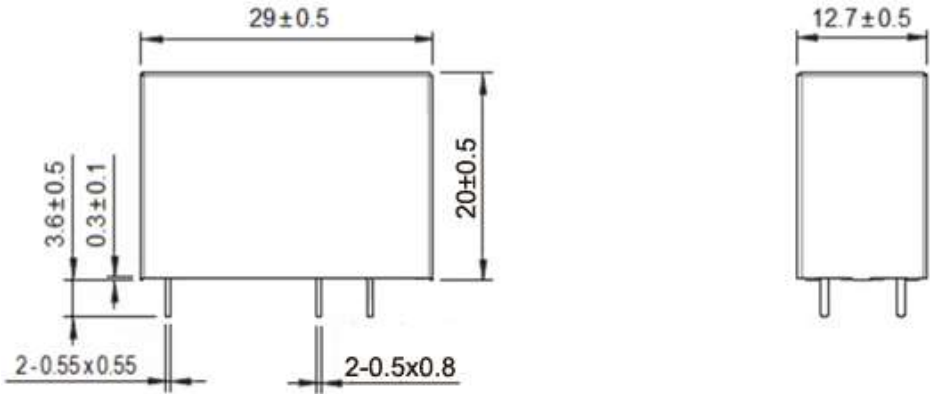
外形尺寸、PCB 布局、接线图 Outline Dimensions, PCB Layout, Wiring Diagram (mm)

外形尺寸 Outline Dimensions

ST115D-1A



ST115D-1B

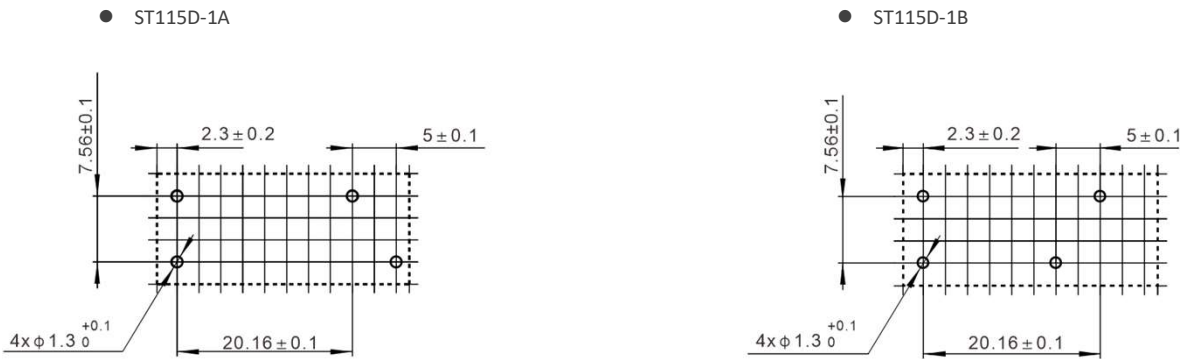


注 Note:
未注尺寸公差 Unspecified tolerance : <1mm: ±0.2 mm, 1~5 mm: ±0.3mm, >5mm: ±0.5 mm ;
安装孔尺寸中未注尺寸公差为± 0.1 mm PC board layout dimensions hadn't specified tolerance is ±0.1mm.

ST115D PCB通用直流功率继电器 PCB General DC Power Relay

外形尺寸、PCB 布局、接线图 Outline Dimensions, PCB Layout, Wiring Diagram (mm)

印刷线路板加工尺寸 PCB Outline Dimension Bottom View



接线图 Wiring Diagram Bottom View



注 Note:
未注尺寸公差 Unspecified tolerance : <1mm: ±0.2 mm, 1~5 mm: ±0.3mm, >5mm: ±0.5mm ;
安装孔尺寸中未注尺寸公差为± 0.1 mm PC board layout dimensions hadn't specified tolerance is ±0.1mm.

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