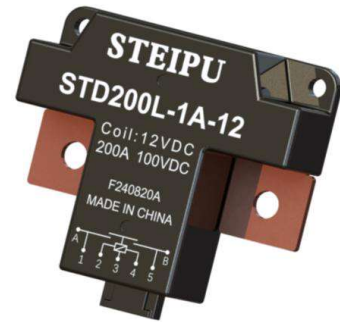


特性 Features

- 磁保持型继电器，仅需脉冲激励 Latching type relay, plus excitation only
- 200A持续过流能力 200A Carrying capability
- 触点间隙大于5mm Contact Gap >5.0mm
- 50G抗冲击能力 Functional shock resistance $\geq 50G$
- 高抗短路承载能力及短路断开能力 High short-circuit resistance and short-circuit breaking capacity
- 尺寸 Dimensions: 60.5×71.0×21.0mm



典型应用 Application

- 车载充电器/充电桩/BMS（适用于BMS短路切断要求）等。OBC/ Charging Station/ BMS(Applicable to short-circuit cut-off required BMS) etc.

触点参数 Contact Data

型号 Type	标准 Standard	-H 高电压 High Voltage
触点形式 Contact Arrangement	1A/1B	
触点负载 Contact Rating	200A 100VDC/200A 150VDC(resistive)	200A 350VDC
最大切换电压 Max. Switching Voltage	150VDC	350VDC
最大切换电流 Max. Switching Current	250A	
触点材质 Contact Material	银合金 Ag alloy	
接触电阻 Contact Resistance	Max.1m Ω (20A 6VDC)	
动作/释放时间 Operate Time/Release Time	$\leq 15\text{ms}/\leq 15\text{ms}$	
电耐久性 Electrical Endurance	85°C, ON:OFF=1s;9s; $\cos\phi=1$	
	6*10 ³ ops 200A 100VDC 200 ops 200A 150VDC	5*10 ³ ops 200A 350VDC
机械耐久性 Mechanical Endurance	5*10 ⁵ ops.	
最大切换功率 Max. Switching Power	30000W	70000W

线圈参数 Coil Data

线圈电压范围 Coil Voltage Range	12~24 VDC
容许最大电压 Max. Continuous	额定电压的200% 200% of Rated Voltage
线圈绝缘等级 Coil Insulation System	Class F
额定线圈功率 Coil Rating Power	双线圈 2Coils: 约Approx. 36W
最小线圈脉冲宽度 Min. Coil Voltage Plus Width	100~300ms

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	1000M Ω Min (at 500VDC)	
介质耐压 Dielectric Strength	断开触点间 Between Open Contacts	3500Vrms 1min
	触点组之间 Between Contact Sets	/
	线圈与触点间 Between Coil and Contact	3500Vrms 1min
塑料件的阻燃性 Fire resistance of plastic parts	UL94 V-0	
温度范围 Temperature Range	-40~+85°C	
湿度 Ambient Operating Humidity	5% ~ 85%RH	
振动 Vibration Resistance	10~55Hz 1.5mm双振幅 double amplitude	
冲击 Shock	稳定性 Functional	50G
	强度 Destructive	100G
重量 Weight	Approx. 120g	

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
VDC	VDC	VDC	双线圈 2Coils $\Omega(\pm 10\%)$
12	8.4	8.4	4/4
24	16.8	16.8	16/16

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 $\pm 10\%$ Coil resistance is tested at 23°C ambient temperature, $\pm 10\%$ tolerance.

STD200L 磁保持大功率直流继电器 High Power Latching DC Relay

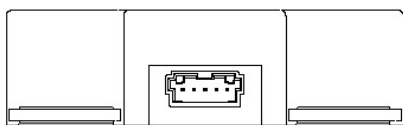
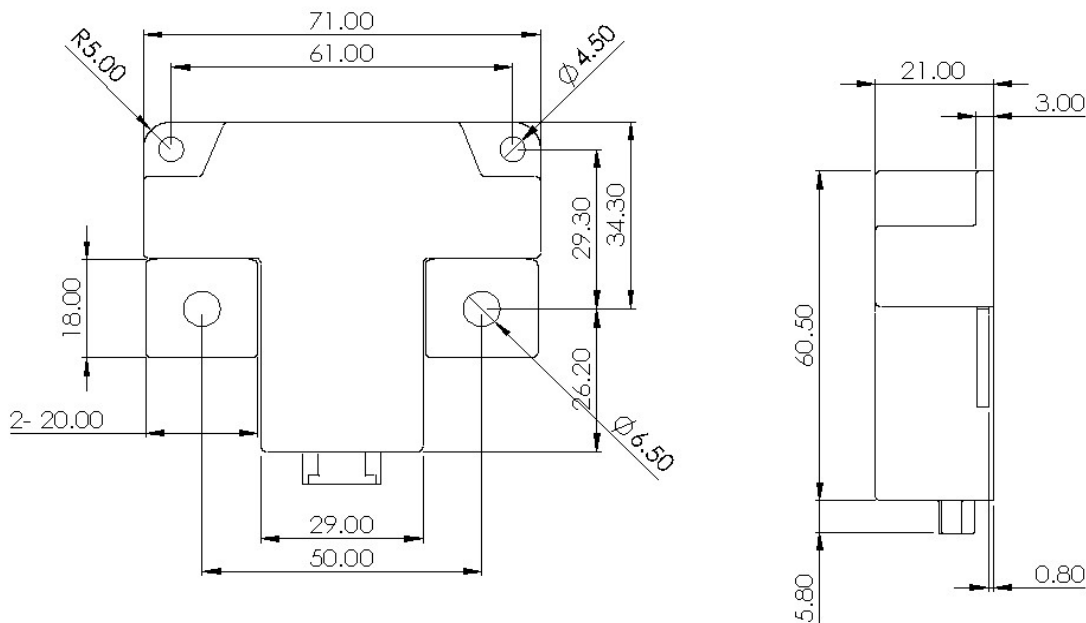
型号命名标准 Model Number Legend

	STD200L	-1A	-12	2	R	F	XXX
基本型号 Basic Type:	STD200L						
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:	12, 24VDC						
线圈排序 Coil Sort:	2: 双线圈磁保持 2 Coils Latching						
线圈极性 Coil Polarity:	Blank: 标准极性 Standard Polarity; R: 反极性 Reverse Polarity						
绝缘等级 insulation Class:	F: F级 Class F						
特殊特性 Special Characteristic:	H: 350VDC版本 350VDC Type*; Blank: 标准型 Standard; XXX: 客户特殊特性号 Customer Special Feature Number						

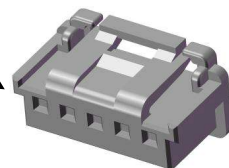
*针对350VDC及强短路电流断开产品，详情请咨询斯泰普。 For 350VDC and high short-current breaking capacity type, please contact STEIPU.

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

外形尺寸 Outline Dimensions



连接器型号: Molex 502351-0501



注 Note:

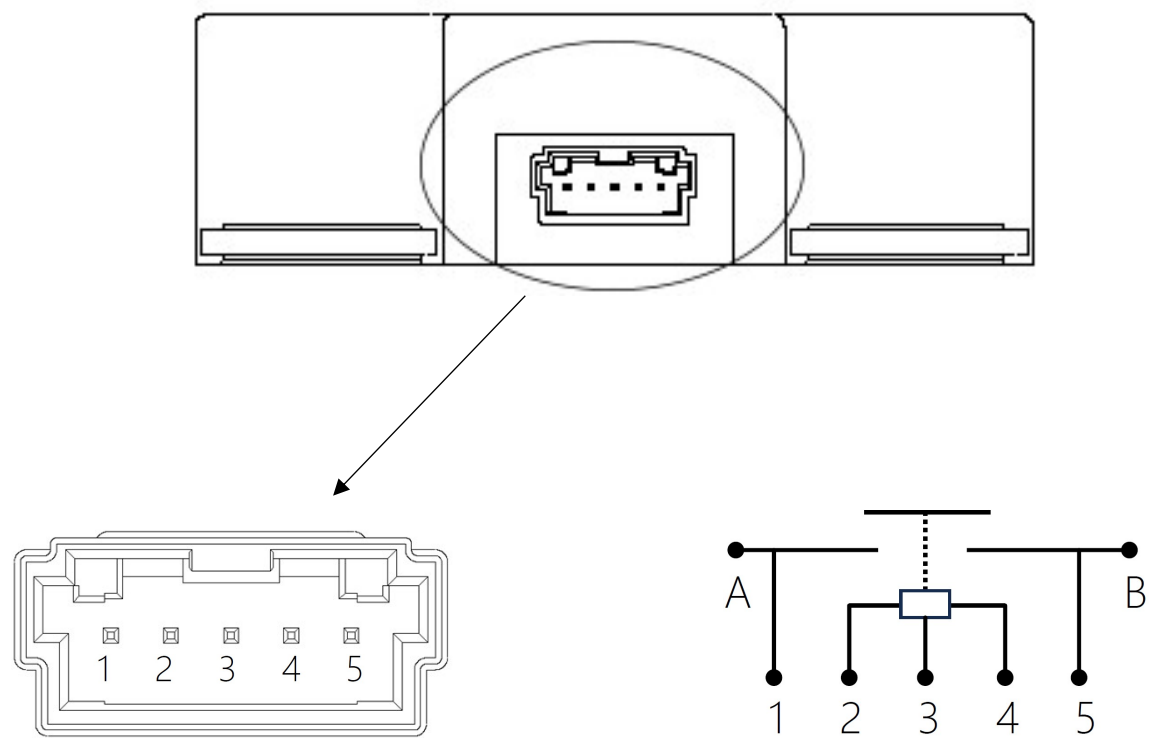
未注尺寸公差 Unspecified tolerance : <1mm: ± 0.2 mm, 1~5 mm: ± 0.3 mm, >5mm: ± 0.5 mm ;

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 ± 0.1 mm.

STD200L 磁保持大功率直流继电器 High Power Latching DC Relay

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

低压接口定义 Definition of Low Voltage Interface



标准极性 Standard Coil Polarity

引脚定义 Pin Definition	功能 Function
1	空置 No Connection
2	释放线圈 (-) Release Coil (-)
3	公共端 (+) Common Pin (+)
4	吸合线圈 (-) Set Coil (-)
5	空置 No Connection

-R 反极性 -R Reverse Polarity

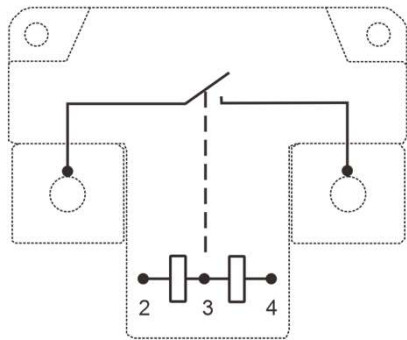
引脚定义 Pin Definition	功能 Function
1	空置 No Connection
2	吸合线圈 (+) Set Coil (+)
3	公共端 (-) Common Pin (-)
4	释放线圈 (+) Release Coil (+)
5	空置 No Connection

STD200L 磁保持大功率直流继电器 High Power Latching DC Relay

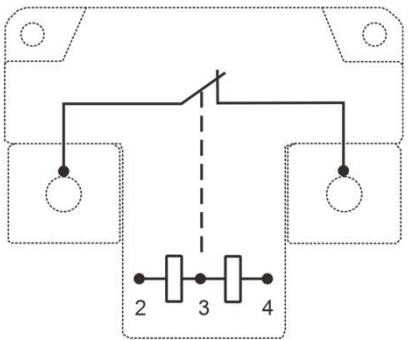
■ 外形尺寸、PCB 布局、接线图 Outline Dimensions, PCB Layout, Wiring Diagram (mm)

◆ 接线图 Wiring Diagram Bottom View

● 1A: 1组常开 1 Form A



● 1B: 1组常闭 1 Form B



请注意:

1. 上面显示的数据是初始值。
2. 继电器在出库时处于“吸合”或“释放”状态，考虑中转冲击上升和继电器安装时，继电器将变为“吸合”或“释放”状态，因此，在应用（连接电源）时，请根据要求将继电器复位到“吸合”或“释放”状态。
3. 在运输、储存和操作产品过程中。请将产品置于远离磁场的地方避免操作电压和释放电压的变化。
4. 不要同时给“吸合”线圈和“释放”线圈通电。同时长时间通电（1分钟以上）应该避免。
5. 用于计量测量应用的继电器通常采用防尘结构，但大多数继电器可以根据客户的具体要求特制。这类继电器建议存放时间不超过6个月，并且请注意存放环境。如果客户无特殊要求，为确保接触可靠性，在交货时我们将保持继电器触点闭合状态。

Notice:

1. The data shown above are initial values.
2. Relay is on the “reset” or “set” status when being released from stock, with the consideration of shock risen from transit and relay mounting, relay would be changed to “set” or “reset” status, therefore, when application (connecting the power supply), please reset the relay to “set” or “reset” status on request.
3. During transportation, storage and operation the product. Please keep the product away from magnetic fields to avoid changes of operate and release voltage.
4. Do not energize voltage to “set” coil and “reset” coil simultaneously. And also long energized time (more than 1 min) should be avoided.
5. Relays used for metering measuring applications are usually made with dust proof structure, while most relays could be made specially per customer’s specific requirements. No longer than 6 months’ storage time is recommended for this kind of relay, and please pay attention to the storage environment. To ensure contact reliability, we will keep contact status be closed when delivery if no special required by customer.

免责声明:

本说明书仅供参考。

有关更多信息，请参阅“术语和指南”。规格如有更改，恕不另行通知。我们无法评估每个可能应用的所有性能和所有参数。因此，用户应该在一个正确的位置选择适合自己的产品。如有任何疑问或者需要技术服务，请联系STEIPU。

Disclaimer:

This manual is for reference only . For more information, see Terms and Guidelines. Specifications are subject to change without notice. We cannot evaluate all performance and all parameters for every possible application. Therefore, users should choose the right product for them in the right place. If you have any questions or need technical services, please contact STEIPU.