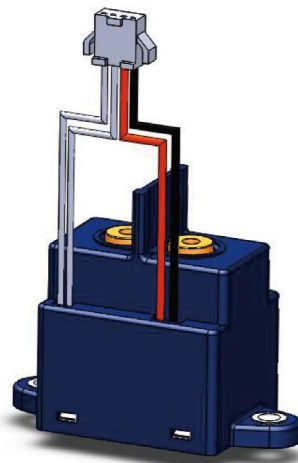


STE200V-1000

陶瓷密封高压接触器 Ceramic Sealed High-voltage Contactor

特点 Features

- 主触点无极性，可双向带载切换The main contact is non-polar and can be switched bidirectional with load
- 采用陶瓷密封结构，无电弧泄露风险 Ceramic sealed structure, no arc leakage risk
- 200A 85°C长时间载流能力 200A Long-term current carrying capacity at 85 °C
- 触点室内充有保护性气体，有效防止触点氧化烧损，触点部分可满足 IP67 防护等级The contact room is filled with protective gas to effectively prevent contact oxidation and burning, and the contact part can meet the IP67 protection grade



典型应用 Typical application

- 电池充电系统Battery charging system;
- 大功率直流设备High power DC equipment;
- 可再生能源存储设备Renewable energy storage devices;
- 燃料电池 & 太阳能系统Fuel Cell & Solar Energy Systems;
- 新能源汽车New energy vehicle ;
- 混合动力汽车Hybrid electric vehicle.

触点参数 Contact Data

触点形式 Contact Arrangement	1A
最大切换电压 Max. Switching Voltage	1000VDC
最大切换电流 Max. Switching Current	1000A, 300VDC, ≥10ps
触点材质 Contact Material	银合金 Ag alloy
接触电阻 Contact Resistance	Max. 3mΩ (@200A)
最小适用负载 Min. Applicable Load	1A 12VDC
动作/释放时间 Operate Time/ Release Time	≤30ms/≤10ms
电耐久性 Electrical Endurance	On:off=0.6s:5.4s 800 ops (1000VDC 200A) 1,000ops (750VDC 200A) 5,000ops (450VDC 200A) 1,500ops (1000VDC 150A) 2,000ops (750VDC 150A) 8,000ops (450VDC 150A)
机械耐久性 Mechanical Endurance	2*10 ⁵ ops.(on:off=0.25s:0.25s)
电流耐受 Current Carrying Capacity	200A: Continued 300A: 5min 400A: 1min 600A: 10s 1000A: 0.6s

线圈规格 Coil Voltage Specifications

额定电压 Nominal Coil	辅助触点 Auxiliary Contact	动作电压 Must Operate	释放电压 Release Coil	最大工作电压 Max. Allowable Voltage	额定功 率Rated Power
VDC	带/不带 Yes/No	VDC	VDC	VDC	W
12	带/Yes	≤9	≥ 1	18	4.5
24	带/Yes	≤18	≥ 2	36	
降压保持 Hold Voltage		100%~120% 额定电压激励时间100ms, 降压至 55% ~ 65% 保持			
		The coil is energized at 100% ~ 120% for 100ms, and the voltage is reduced to 55% ~ 65% for holding.			

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 (at 1000VDC)
介质耐压 Dielectric Strength	断开触点间 Open Load Contacts	4000Vrms 1min
	线圈与触点间 Coil to Load Contacts	4000Vrms 1min
	主触点与辅助触点间 Between Main and Auxiliary Contacts	3000Vrms 1min, 漏电流 Leakage Current 1mA
温度范围 Temperature Range		-40~+85° C
湿度 Ambient Operating Humidity		5% ~ 85%RH
振动 Vibration Resistance		5G 10~500Hz 100m/s ²
冲击 Shock	稳定性 Functional	11ms ½ 正弦波 sine Vehicle: ON: 20G, OFF: 10G Industrial: ON/OFF: 10G
	强度 Destructive	50G
外形尺寸 Outline Dimension		71.8X36X58.7mm
重量 Weight		Approx.185g

辅助触点规格 Auxiliary Contacts Specifications

辅助触点形式 Auxiliary Contacts Arrangement	1路常开 1 Form A
最大负载 Max. Load	6VDC 0.1A
最小负载 Min. Load	6VDC 3mA
接触压降 Contact Voltage Drop	≤100mV @1A

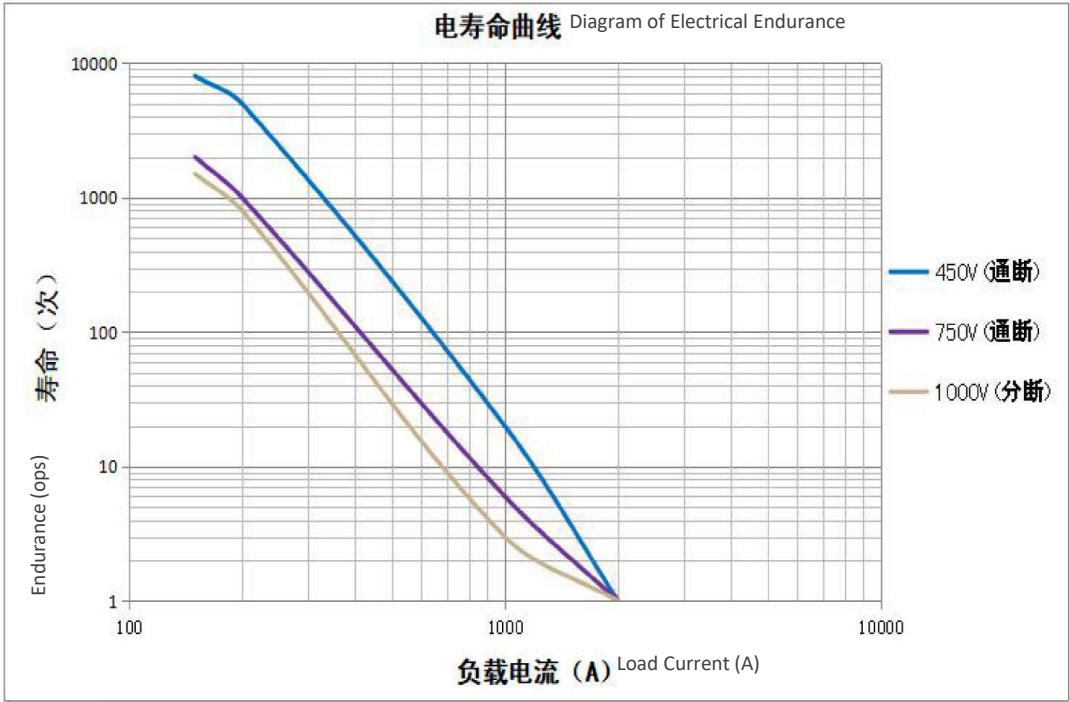
注:

- 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.

型号命名标准 Model Number Legend

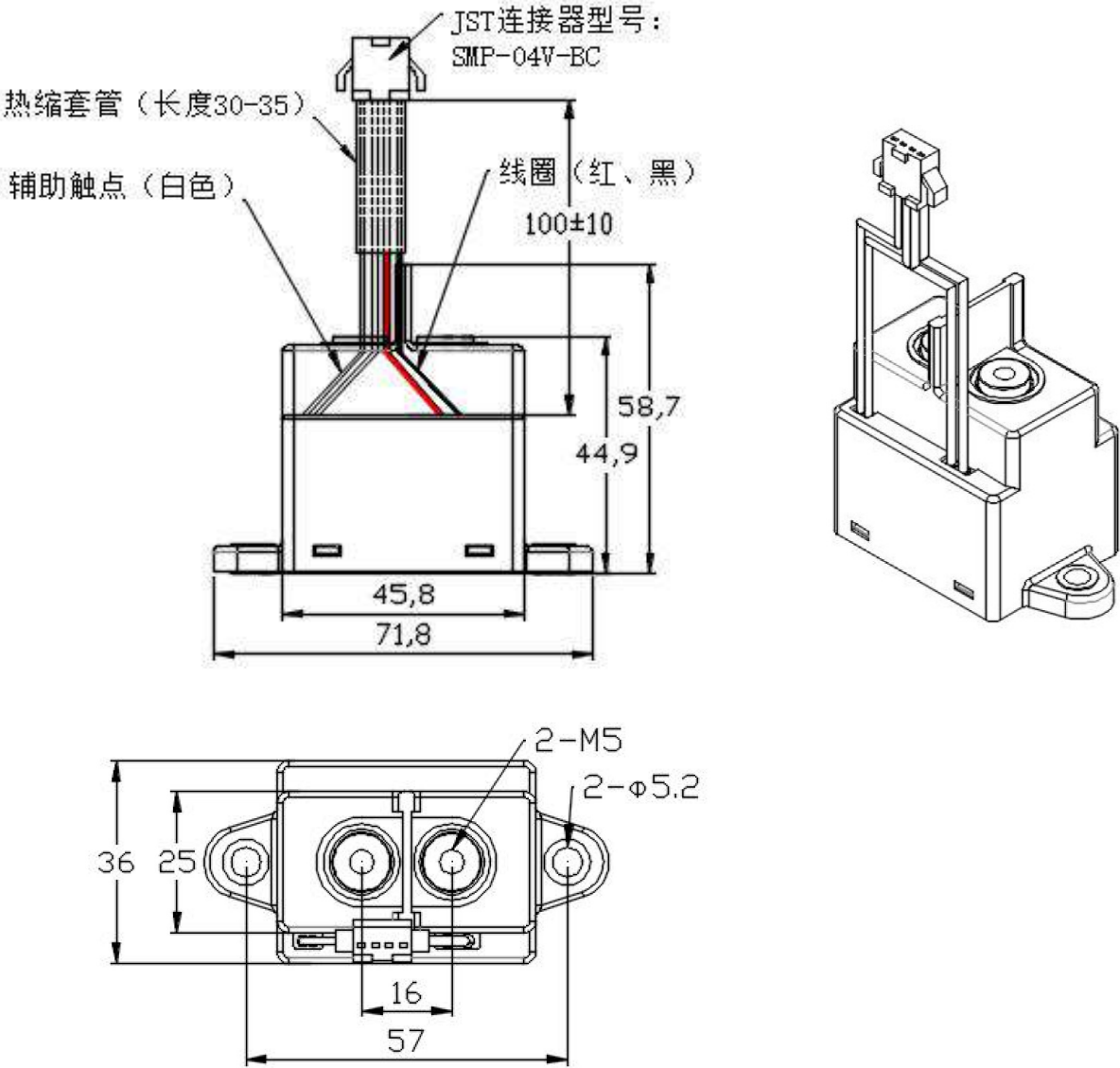
	STE200V	-1A	S	-12	-1000	V	,XXX
基本型号 Basic Type:	STE200V						
触点结构 Contact Arrangement:	A: 1组常开 1 Form A						
辅助触点 Auxiliary Contact:	Blank: 标准型不带辅助触点 Standard without Auxiliary Contact						
	S: 带1组常开辅助触点 with 1A Auxiliary Contact						
线圈电压 Coil Voltage:	12: 12VDC 24: 24VDC						
主触点额定电压 Rated Voltage of Main Contact:	1000: 1000VDC						
应用场合 Application:	Blank:工业 Industrial; V: 汽车 Vehicle						
特殊特性 Special Characteristic:	003: 线圈功耗4.5W、线圈及辅助引线带端子 Coil Rated Power 4.5W, With Coil and Auxiliary Lead Terminal;						
	XXX: 客户特殊特性号 Customer Special Feature Number						

电寿命曲线图 Diagram of Electrical Endurance

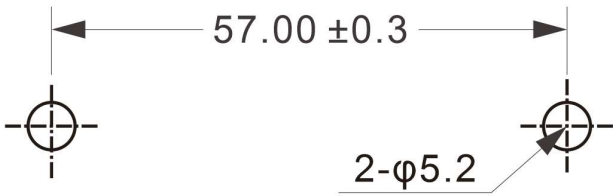


STE200V-1000 陶瓷密封高压接触器电器 Ceramic Sealed High-voltage Contactor

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



安装孔位图 Installation Hole Bitmap



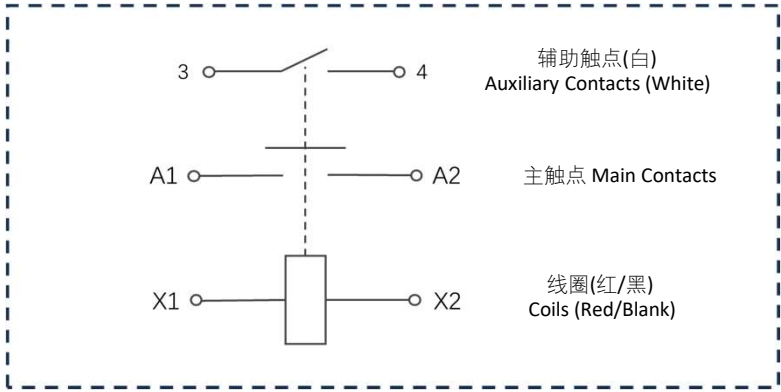
注 Note:

未注尺寸公差 Unspecified tolerance : ≤10mm: +0.3 mm, 10~50 mm: ±0.5mm, ≥50mm: ±0.8mm ;

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

◆ 接线图 Wiring Diagram



说明：
A1、A2 为负载端，X1、X2为线圈端，3、4为辅助触点，负载、线圈和辅助触点均无极性。A1, A2 are load terminals, X1, X2 are coil terminals, 3, 4 are auxiliary contacts. The load, the coil and the auxiliary contacts have no polarity.

使用注意事项 Precautions for Use

- 规格范围：应避免规格以上的操作使用，包括但不限于线圈额定，主触点额定以及电器寿命等的超规格使用。以避免发生异常发热现象以及烟雾，火灾等事故。
Specification range: Operations above the specification should be avoided, including but not limited to coil rating, main contact rating, and electrical life beyond the specification. To avoid abnormal heating phenomenon and smoke, fire and other accidents
- 使用 $L/R>1\text{ms}$ 的感应负载 (L负载)时，推荐并联浪涌器件。如未采取措施，可能会造成电气寿命缩短、切断不良。 Parallel surge devices are recommended when $L/R>1\text{ms}$ inductive load (L load) is used. If no measures are taken, it may cause shortened electrical life and poor cutting
- 在没有加负载的情况下动作时，接触电阻可能会上升，请注意。 Please note that the contact resistance may rise when operating without a load
- 安装与维修：接触器安装应牢固可靠，非正常连接时，容易导致接触器过热与火灾等事故。在安装母线时，请勿向端子施加过度的负载，否则可能会造成通断性能的故障。通电时，安装、维修，故障检修前，应事先切断 接触器与连接器，插座等连接部分的电源。 Installation and maintenance: The contactor installation should be firm and reliable, abnormal connection, easy to lead to overheating and fire accidents. When installing the bus bar, do not apply excessive load to the terminal. Otherwise, the on-off performance may be faulty. When powered on, before installation, maintenance, and troubleshooting, the power supply of the contactor and connector, socket and other connecting parts should be cut off in advance
- 对接触器的重复动作，应充分考虑其动作的间隔时间。为避免引起误动作，建议接触器的两次动作之间的 时间间隔应大于 0.1s。 For the repeated action of the contactor, the interval time of its action should be fully considered. To avoid misoperation , it is recommended that the time interval between two actions of the contactor should be greater than 0.1s
- 端子拧紧条件：各个部位的螺钉锁紧扭矩，请控制在下述的规定范围内。在超过范围的情况下，可能会造成破损 M6螺钉： $6\text{N} \cdot \text{m} \sim 8\text{N} \cdot \text{m}$ （外负载安装）。 Terminal tightening conditions: Screw locking torque of each part should be controlled within the following specified range. In the case of exceedance, damage may be caused. M6 screw: $6\text{N} \cdot \text{m} \sim 8\text{N} \cdot \text{m}$ (External load installation)
- 配线、母线等，请参考： 200A：公称截面积 95mm^2 以上。 Distribution, bus, etc., please refer to: 200A: nominal cross-sectional area of 95mm^2 or more
- 严禁将产品长时间放置在超过产品温度使用范围的环境中。产品使用环境：温度 $-40^\circ\text{C} \sim 85^\circ\text{C}$ ，湿度 $5\% \sim 85\%\text{R. H.}$ 。 It is strictly prohibited to place the product in an environment beyond the product temperature range for a long time. Product use environment: temperature $-40^\circ\text{C} \sim 85^\circ\text{C}$, humidity $5\% \sim 85\%\text{R. H.}$
- 触点连接端子的正确安装：需按电路图进行接线。 Correct installation of contact connection terminals: Connect cables according to the circuit diagram
- 在接触器意外坠地后，请不要再使用。 Do not use the contactor after it accidentally falls to the ground