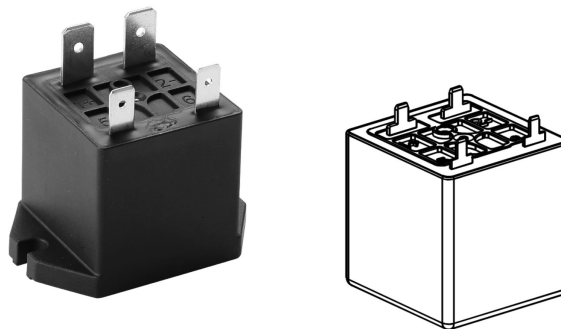


特性 Features

- 20A负载开闭能力 20A switching capability
- 满足450VDC带载切换 Complied 450VDC switching capacity
- 用电安全符合IEC60664-1要求 Electricity safety in accordance with IEC60664-1 requirements
- 多种安装方式可供选择 A variety of installation options are available
- 外形尺寸 Outline Dimensions : (30.1×30.0×29.2)mm



典型应用 Application

汽车充电电源 On Board Charging (OBC)

预充回路控制 By-pass circuit

触点参数 Contact Data

触点形式 Contact Arrangement	1A
额定电压 Rating Voltage	450VDC
最大切换电压 Max. Switching Voltage	750VDC
最大切换电流 Max. Switching Current	30A(@450V 5ops Min.)
触点材质 Contact Material	银氧化锡 AgSnO ₂
接触电阻 Contact Resistance	5mΩ(1A 6VDC)
动作/释放时间 Operate Time/ Release Time	≤30ms/≤10ms
电耐久性 Electrical Endurance	Rating load, Resistance, on:off=0.6s:5.4s @23°C Breaking: 20A 450VDC: 3x10 ³ ops Breaking: 10A 450VDC: 1x10 ⁴ ops Making: 20A 450VDC: 7.5x10 ⁴ ops Making: 6A 750VDC: 7.5x10 ⁴ ops
电流耐受 Current Carrying Capacity	20A: continuous
	30A: 1h
	40A: 20min
	80A: 30s
	120A: 10s
机械耐久性 Mechanical Endurance	200A: 0.6s
	on:off=1s:1s 2x10 ⁵ ops
最大切换功耗 Max. Switching Power	13500W

线圈参数 Coil Data

线圈电压范围 Coil Voltage Range	12~48 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	F Class
额定线圈功率 Coil Rating Power	3W

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		100MΩ 500VDC
介质耐压 Dielectric Strength	断开触点间 Open Load Contacts	2500VAC 1min
	线圈与触点间 Coil to Load Contacts	3000VAC 1min
温度范围 Temperature Range		-40°C to +85°C
湿度 Ambient Operating Humidity		5 ~ +85%RH
振动 Vibration Resistance		10Hz to 500Hz 5G
冲击 Shock	稳定性 Functional	20G
	强度 Destructive	50G
重量 Weight		≈ 50g

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	Ω(±10%)
12	≤ 9.0	≥ 1.0	48
24	≤ 18.0	≥ 2.0	192
48	≤ 36.0	≥ 4.0	768

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.

STK20 高压直流继电器 High-voltage DC Relay

型号命名标准 Model Number Legend

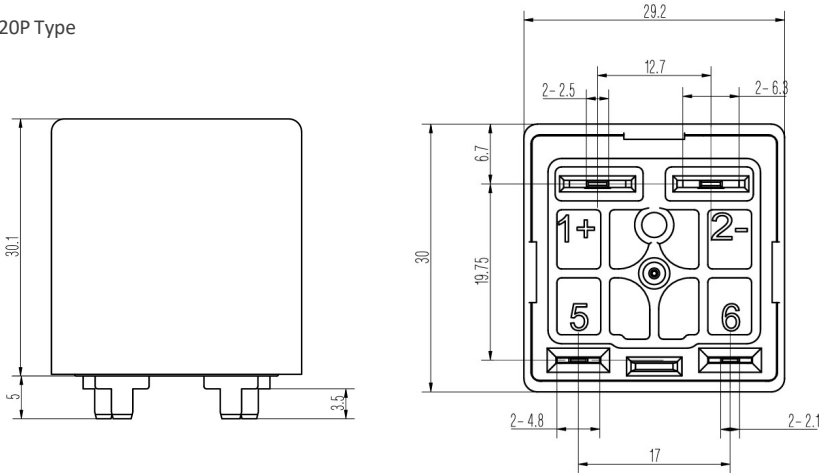
	STK20	P	-1A	-12	1	,XXX
基本型号 Basic Type:	STK20					
引出端子形式 External Terminal Type:	P: PCB 安装 PCB Mounting; Q: 快插端子 Q&C Terminal					
触点结构 Contact Arrangement:	1A: 1组常开 1 Form A					
线圈电压 Coil Voltage:	12, 24, 48VDC					
外壳结构 Cover Structure (仅针对快插端子类型 Only For Q&C Terminal Type):	Blank: 标准凸台 Standard Mounting Boss; 1: 无安装凸台 No Mounting Boss*; 2: 2型安装凸台 Type 2 Mounting Boss; 3: 3型安装凸台 Type 3 Mounting Boss					
特殊特性 Special Characteristic:	Blank:标准型Standard; XXX: 客户特殊特性号 Customer Special Feature Number					

*PCB安装类型默认为无安装凸台外壳。PCB mounting type is no mounting boss by default.

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

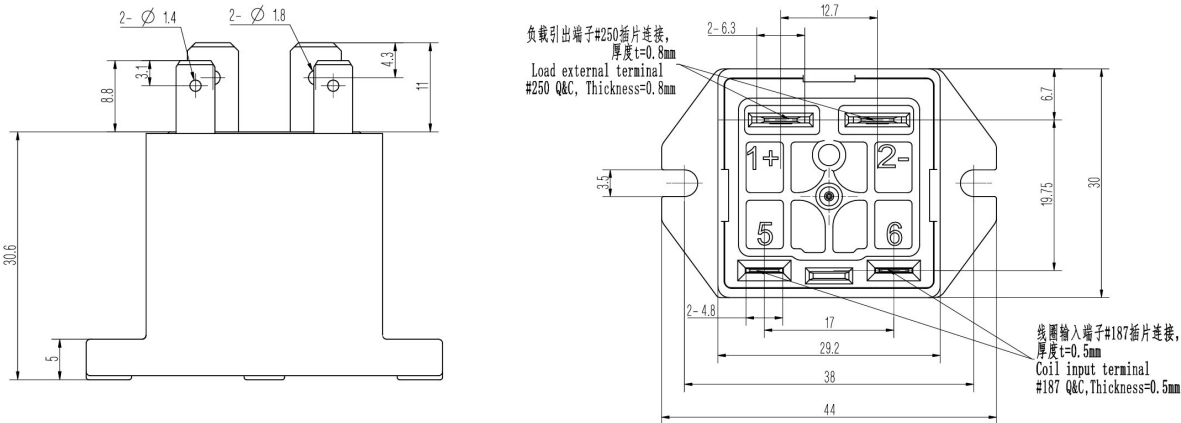
外形尺寸 Outline dimensions

STK20P产品 STK20P Type



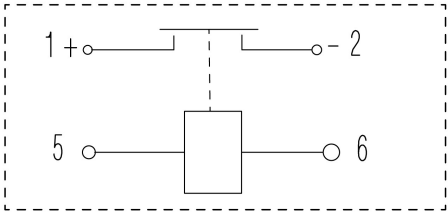
STK20Q产品 STK20Q Type

标准凸台 Standard Mounting Boss



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

◆ 接线图 Wiring Diagram Bottom View



注 Note:
未注尺寸公差 Unspecified tolerance : <1mm: ± 0.2 mm, 1~5 mm: ± 0.3 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.

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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。
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