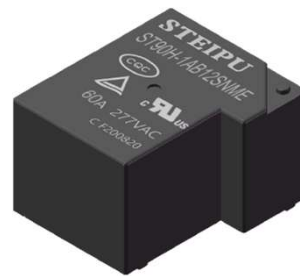


特性 Features

- 外形尺寸 Outline dimensions : (32.2x27.5x20.4)mm
- 触点形式 Contact arrangement : 1A 1AB
- 线圈功率 Coil power : 0.9W 1.5W 2.25W
- 1.2mm, 2.35mm, 3.0mm触点间隙可选 1.2mm, 2.35mm, 3.0mm contact gap optional (compliant to IEC 62109-2-2011)
- 负载条件 Load conditions : 50A/60A 277VAC/400VAC
- 满足 IEC 62955:2018 9.11.2 条款 Compliant to IEC 62955:2018 Clause 9.11.2
- 重量 Unit weight : $\approx$ 28g



典型应用 Application

充电桩 Charging Station

功率电源 Power Supply

触点参数 Contact Data	
触点形式 Contact Arrangement	1A, 1AB, 1C
额定电压 Rating Voltage	277VAC/400VAC
最大切换电压 Max. Switching Voltage	400VAC
最大切换电流 Max. Switching Current	50/60A
最大切换功耗 Max. Switching Power	13850VA/240000VA
触点材质 Contact Material	Silver Alloy
接触电阻 Contact Resistance	100m Ω (1A 6VDC)
动作/释放时间 Operate Time/ Release Time	15ms max /10ms max
电耐久性 Electrical Endurance	(Rating load, Resistance, on:off=1s:9s @85°C) NO: 60A 277VAC 6x10 ³ OPS NO: 60A 400VAC 1x10 ³ OPS NO: Making 32A Carrying 60A Breaking 32A 400VAC 5x10 ⁴ OPS NC: 1A 6x10 ³ OPS(For 1AB Type) NC: 20A 277VAC 6x10 ³ OPS(For 1C Type)
机械耐久性 Mechanical Endurance	1x10 ⁶ OPS (on:off=1s:1s)

线圈参数 Coil Data	
线圈电压范围 Coil Voltage Range	5~48 VDC
容许最大电压 Max. Continuous	额定电压的110% 110% of Rated Voltage*
线圈绝缘等级 Coil Insulation System	F Class
额定线圈功率 Coil Rating Power	0.9W/1.5W/2.25W

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.

* : 具体参考线圈规格一栏 Specific reference to the Coil Voltage Specifications sheet .

性能参数 Characteristics		
绝缘电阻 Insulation Resistance		100M Ω 500VDC
介质耐压 Dielectric Strength	断开触点间 Open Load Contacts	1500VAC 1min 2000VAC 1min(Type K) 2500VAC 1min(Type M) 3000VAC 1min(Type G)
	线圈与触点间 Coil to Load Contacts	4000VAC 1min
温度范围 Temperature Range		-40°C to +85°C
湿度 Ambient Operating Humidity		5 ~ +95%RH
振动 Vibration Resistance		5HZ to 55HZ 1.5mm 双振幅 Double Amplitude
冲击 Shock	稳定性 Functional	10G
	强度 Destructive	30G
重量 Weight		$\approx$ 28g
耐热焊接 Soldering (Max.)		10s, 265°C

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	最大过载电压 Max. Voltage (VDC)			线圈电阻 Coil Resistance $\Omega(\pm 10\%)$		
			0.9W	1.5W	2.25W	0.9W	1.5W	2.25W
VDC	VDC	VDC	0.9W	1.5W	2.25W	0.9W	1.5W	2.25W
5	≤ 3.75	≥ 0.5	6.5	6.5	5.5	27.7	16.6	11.1
6	≤ 4.5	≥ 0.6	7.8	7.8	6.6	40	24	16
9	≤ 6.75	≥ 0.9	11.7	11.7	9.9	90	54	36
12	≤ 9.0	≥ 1.2	15.6	15.6	13.2	160	96	64
18	≤ 13.5	≥ 1.8	23.4	23.4	19.8	360	216	144
24	≤ 18.0	≥ 2.4	31.2	31.2	26.4	640	384	256
48	≤ 36.0	≥ 4.8	62.4	62.4	52.8	2560	1536	1024

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.

ST90H 小型大功率继电器 Miniature High Power Relay

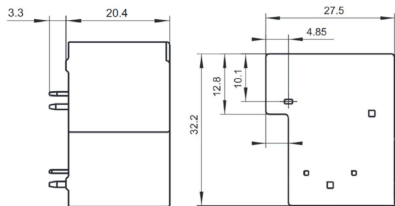
型号命名标准 Model Number Legend

基本型号 Basic Type:	ST90H	-1AB	12	S	N	XXX
触点结构 Contact Arrangement:						
1A: 1组常开 1 Form A;						
1AB: 1组常开带辅助触点1 Form B With Auxiliary Contact						
线圈电压 Coil Voltage:						
5, 6, 9, 12, 24, 48VDC						
防护构造 Protective Construction:						
Blank: 耐助焊剂型 Flux Tight; S: 塑料密封型 Sealed						
线圈功率 Coil Power:						
Blank: 0.9W; N: 1.5W; L: 2.25W						
特殊特性 Special Characteristic:						
K: 触点间隙 Contact Gap 1.2mm(only 50A Type); M: 触点间隙 Contact Gap 2.35mm(only 1A); G: 触点间隙 Contact Gap 3.0mm(only 1A)						
W: 宽脚 WideTerminal						
D: 输出脚位间距 Output Terminal Spacing 18.75mm						
C: 1组转换型触点结构 1 Form C Contact Arrangement						
XXX: 客户特殊特性号 Customer Special Feature Number						

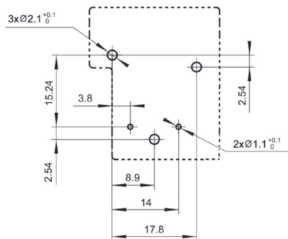
外形尺寸、PCB 布局、接线图 Outline Dimensions, PCB Layout, Wiring Diagram (mm)

1) ST90H-1A (一组常开 1 Form A)

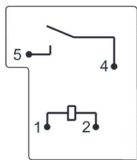
外形尺寸 Outline dimensions



底部视图 Bottom View

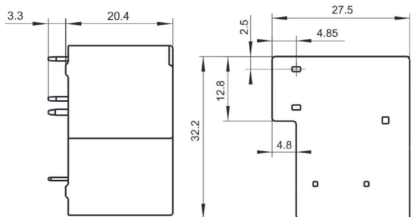


接线图 Wiring Diagram

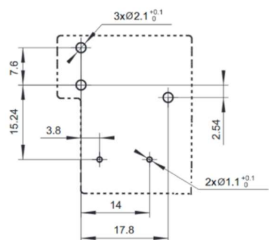


2) ST90H-1AB/1C (1组常开带辅助触点/1组转换触点 1 Form A With Auxiliary Contact/ 1 Form C)

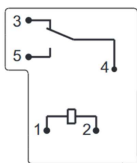
外形尺寸 Outline dimensions



底部视图 Bottom View

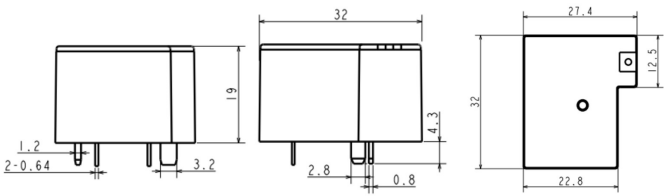


接线图 Wiring Diagram

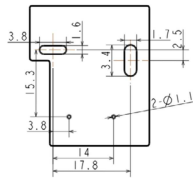


3) ST90H-1A-W (宽脚 WideTerminal)

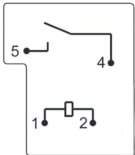
外形尺寸 Outline dimensions



底部视图 Bottom View

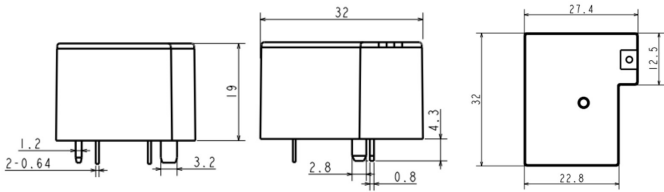


接线图 Wiring Diagram

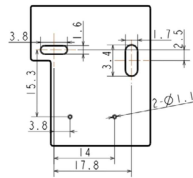


4) ST9H-1AB-W (宽脚 WideTerminal, 1组常开带辅助触点1 Form A With Auxiliary Contact)

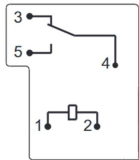
外形尺寸 Outline dimensions



底部视图 Bottom View

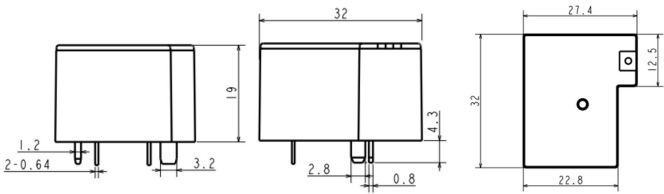


接线图 Wiring Diagram

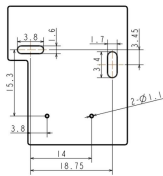


5) ST90H-1A-D (输出脚位间距 Output Terminal Spacing 18.75mm)

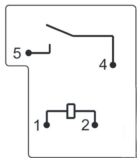
外形尺寸 Outline dimensions



底部视图 Bottom View

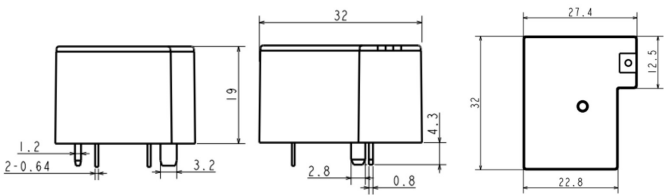


接线图 Wiring Diagram

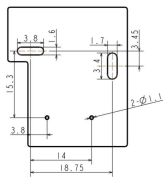


6) ST90H-1AB-D (一组常开 1 Form A)

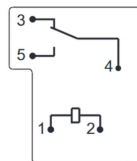
外形尺寸 Outline dimensions



底部视图 Bottom View



接线图 Wiring Diagram



注 Note:
未注尺寸公差 Unspecified tolerance : <1mm: +0.2 mm, 1~5 mm: ±0.3mm, >5mm: ±0.4mm ;
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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