

Small high power relay (AL_2C & 4C)
小型大功率继电器(AL_2C & 4C)



Features 产品特点

- 20A Switching large capacity
20A 切换大容量
- >Various contact forms: 2C) 2 groups of conversion, (4C) 4 groups of conversion
多种接点形式：(2C)2组转换·(4C)4组转换
- >Built-in mechanism to display relay action status
内置机模指示显示继电器动作状态
- >LED Indicator: Displays coil "on" or "off" status
LED指示灯：显示线圈“接通”或都“断开”状态
- >Rotary button: When the coil is not energized, it is allowed to manually operate the rotary button, which is suitable for debugging personnel to manually test the circuit
旋转按钮：线圈不通电情况下·允许手动操作旋转按钮·适用于调试人员手动测试电路



AL-2C



AL-4C

Model code description 型号編碼说明

	AL	2C	10	S	C	M4L	A240
Series 系列: AL							
Contact form 触点形式 2C:DPDT ; 4C:4PDT							
Contact load 触点负载 10 : 10A 12 : 12A 20 : 20A							
Terminal Type 引出端形式 S : Standard Socket Plug-in 標準型插座插入式 P : Mounted on PCB 印制板式							
Case Type 外殼樣式 C : Standard shell 標準型普通外殼							
Optional Accessory 选配 M: Manual Test Button 手動測試按鈕 (unselected: means no manual test button) (未选 : 表示无手动测试按钮) 4: Rotary Button With Self-locking Function 有自鎖功能的旋轉按鈕 (unselected: means the rotary button without self-locking function) (未选 : 表示无自锁功能的旋转按钮) L: LED Indicator LED指示燈 (Not selected: means no LED indicator) (未选 : 表示无LED指示灯) Note : AC indicator is red ; DC indicator is green 注 : AC指示灯为红色 DC指示灯为绿色 (更直观区分AC和DC)							
Coil voltage 线圈电压 A : AC 交流 (6-240VAC) ; DC : DC直流 (6-110VDC)							

Product performance 产品性能

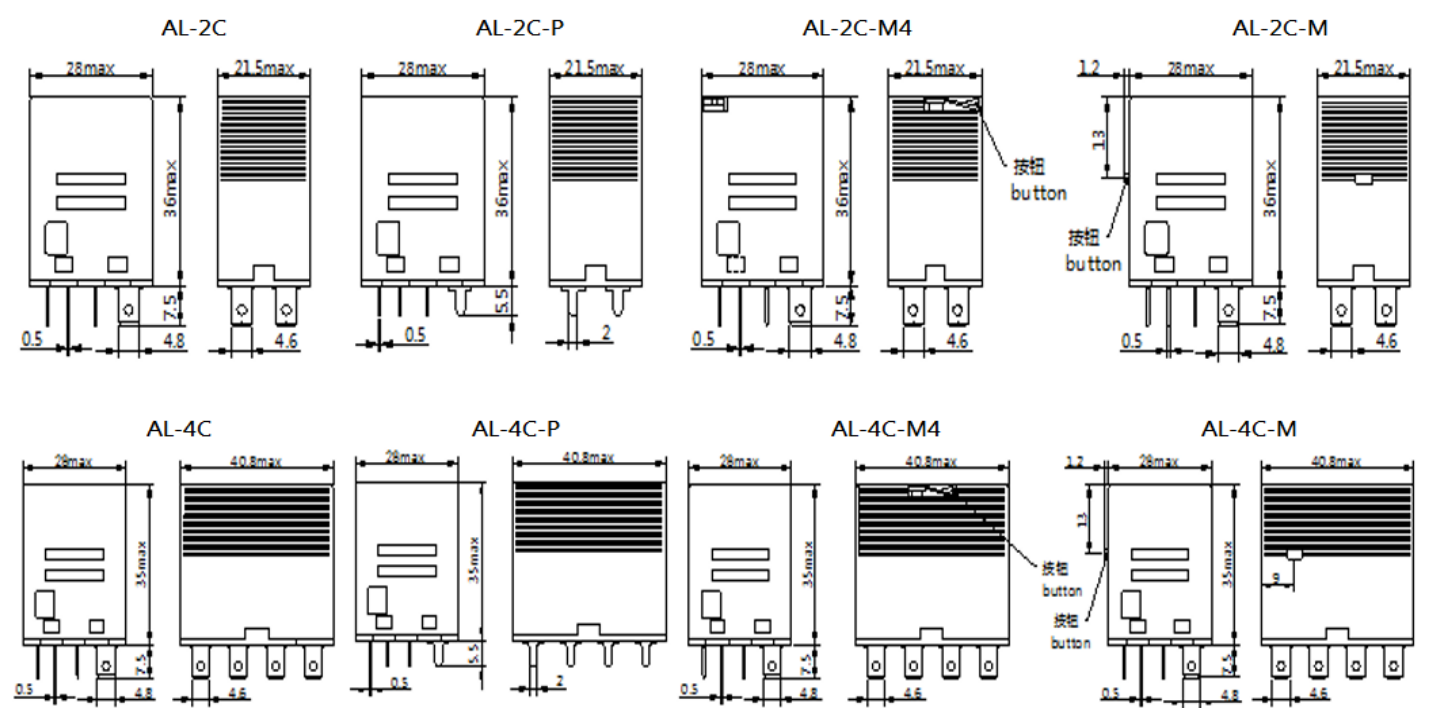
		Model 型式	2C	4C
Contact form 触点	Load 负载	Resistive 阻性	10A@28VDC/240VAC 20A@28VDC/120VAC/277VAC	10A@28VDC/240VA 12A@28VDC/277VAC 15A@120VAC
		motor 马达	1/3Hp,120VAC/ 1/2Hp,240VAC	1/2Hp,240VAC 3/4Hp,240VAC
	Switching power 切换功率		560W, 5540VA	336W/3324VA
	Contact resistance (initial) 接触电阻 (初始)		≤50mΩ	
	Contact material 接点材料		10A : AgNi 银镍 12A/15A/20A : AgSnO2 银锡	
	Electrical life 电气寿命		10,000 ops	

	Mechanical life 机械寿命	1000,0000 ops		
Closilng voltage 吸合电压 (23℃)		DC:≤75% (rated voltage 额定电压) · AC : ≤80% 50/60HZ (rated voltage 额定电压)		
Release voltage 释放电压 (23℃)		DC:≥10% (rated voltage 额定电压) · AC : ≥30% 50/60HZ (rated voltage 额定电压)		
Maximum voltage 最大电压 (23℃)		110% (rated voltage 额定电压)		
绝缘电阻 Insulation resistance		500MΩ @500VDC		
Coil power 线圈功率	DC(W)	0.89-1.1W		
Coil power 线圈功率	AC(VA)	1.2VA		
Closilng response time (rated voltage) 吸合时间(额定电压)		≤20ms		
Release time (rated voltage) 释放时间(额定电压)		≤15ms		
Initial withstand voltage 初始耐压	Between contacts of the same pole 同极触点之间	1000VAC,1Min (Leakage current 漏电流1mA)		
	Between contacts of different poles 异极触点之间	1500VAC,1Min (Leakage current 漏电流1mA)		
	Between coil and contact 线圈与触点间	1500VAC,1Min (Leakage current 漏电流1mA)		
Environment temperature 环境温度		-25℃ ~ +55℃ (AC/DC) (No icing, no condensation 无结冰、无结露)		
Environment humidity 环境湿度		5%RH ~ 85%RH		
Atmospheric pressure 大气压力		86-106KPa		
Shock stability 冲击稳定性		98m/s2		
Impact strength 耐冲击强度		980m/s2		
Vibration resistant 耐振动		10Hz ~ 55Hz, Double amplitude 1.0mm		
Mount method 安装方式		Socket Plug-in 插座插入式 or PCB type 印制板式		
Volume 体积		28×14×36 mm	28×21.5×36mm	28×30.8×36mm
Weight 重量		约24g	约37g	约58g
				约78g

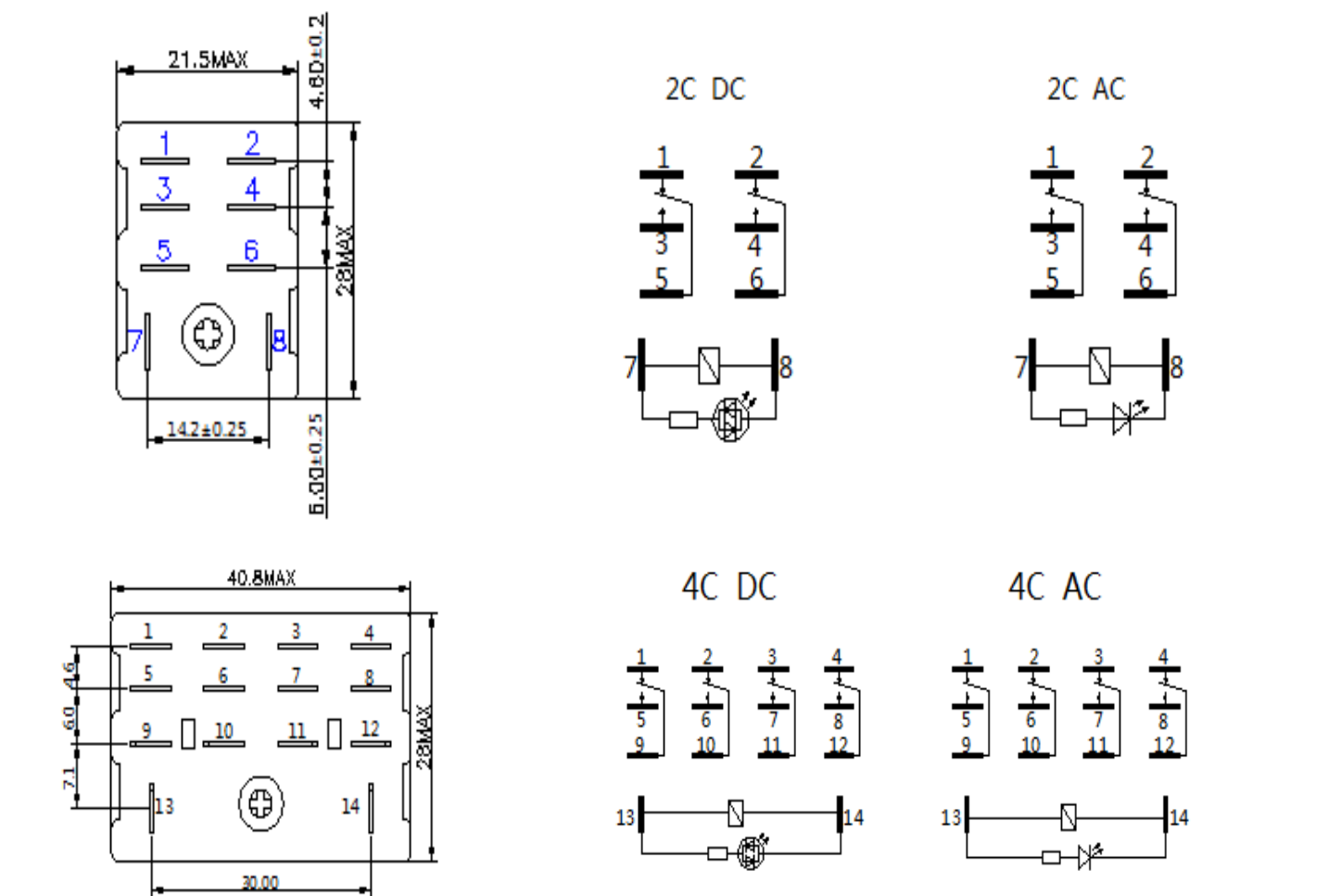
Coil specification table 线圈规格表 （Environment temperature 环境温度+ 23℃）						
Rated voltage 额定电压（V）		Operating Voltage 工作电压（V）	Release voltage 释放电压（V）	maximum voltage 最大电压(V)	Coil resistance 线圈电阻(Ω)±10%	
					2C	4C
DC	6VDC	≤75%	≥10%	110%	40	24
	12VDC				160	96
	24VDC				650	388
	48VDC				2600	1550
	110VDC				11000	7340
AC	6VAC	≤80%	≥30%		9.5	5.4
	12VAC				46	21.2
	24VAC				180	84.5
	48VAC				770	340
	110VAC				3830	1800
	120VAC				4430	2220
	220VAC/230VAC				15000	8520
	240VAC				157000	9120

备注：最大电压是指继电器在短时间内能够承受的最大电压值。
Note: The maximum voltage is the maximum that the relay can withstand in a short period of time.

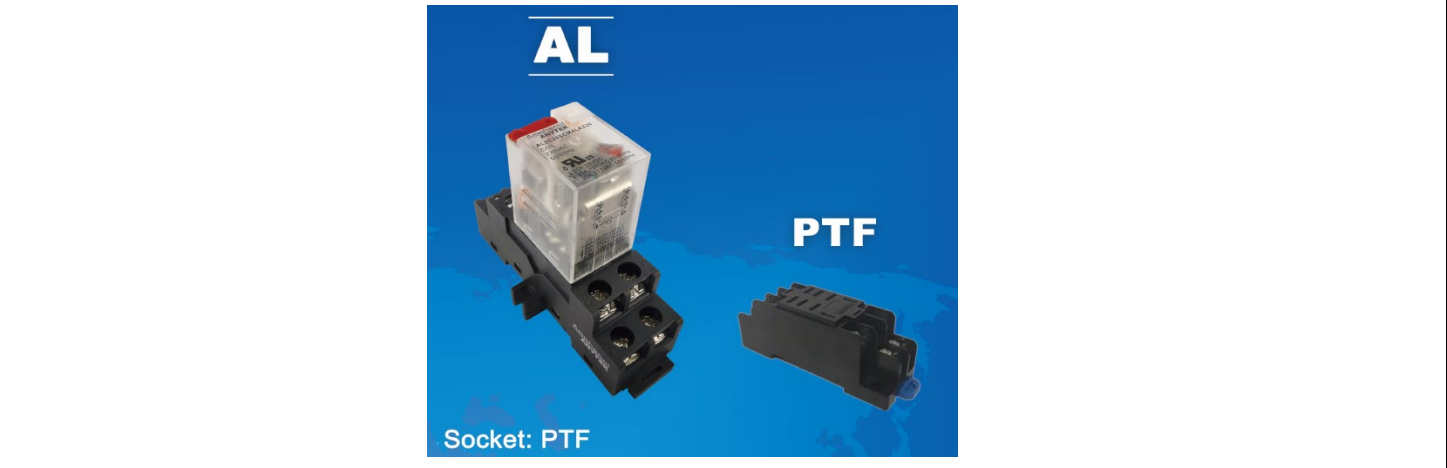
Outline drawing size (mm) 外形图尺寸



circuit diagram (mm) 线路图



Other optional sockets (see PTF socket description for relevant parameters)
其它可选插座 (相关参数见PTF插座说明)



PTF-08A

PTF-14A