

RoHS Compliant

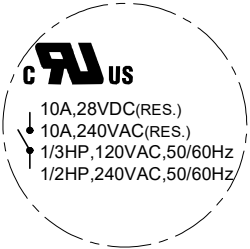
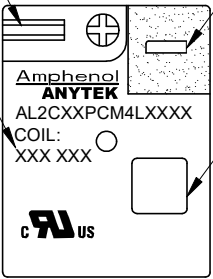
Rev.	SIGN	DATE	DESCRIPTION	APPROVER
B	—	11/12'24	The first release	PansLee
THIS IS CAD DRAWING, DO NOT REVISE MANUALLY!!!				

AC需增加电源频率,
DC无电源频率/
Shows frequency for AC,
No power frequency for DC

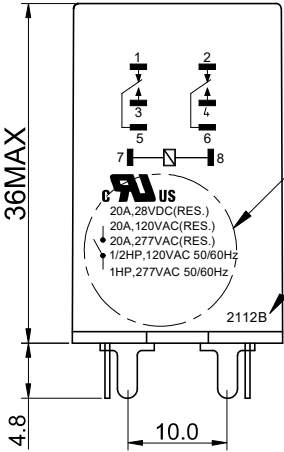
旋转按钮/
Rotary button

机械指示旗视窗 /
Mechanical indication flag
window

LED视窗 /
LED window



当负载为10A 印字图/
Print content of 10A load

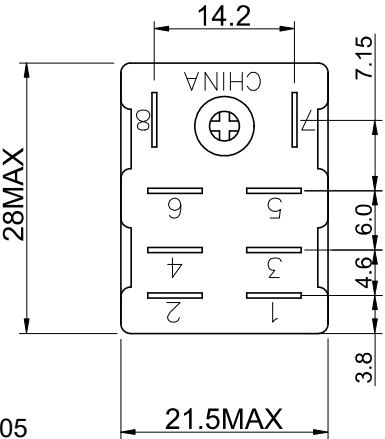
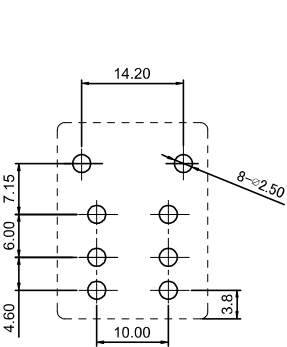
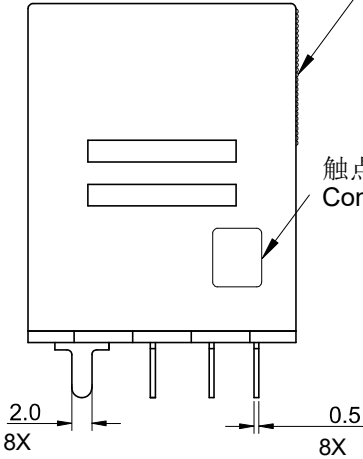


当负载为20A 印字图/
Print content of 20A load

批号 (年+周)
Lot number

防滑刻痕 /Non-slip
scoring

触点视窗/
Contact window



RECOMMENDED PCB LAYOUT
PCB mounting hole size tolerance ±0.05

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TITLE		AL-DPDT/ROTARY BUTTON/LED/INDICATOR FLAG INDUSTRIAL RELAY					
PART NO.		AL2CXXPCM4LXXX00G		DWG NO.		8AL2C-0004	
APPROVED		CHECKED	DESIGNED	DRAWN	CUST NO.		Tolerance
			PansLee 2024.11.12	PansLee 2024.11.12			0~1 ±0.2
							>1~5 ±0.3
					SHEET: 01/02		REV.: B

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触点参数/Contact parameters

- 触点形式/Contact Arrangement: DPDT
- 接触电阻/Contact Resistance: 100mΩ Max. At 6VDC,1A
- 触点材质/Contact Material: AgSnO₂/AgNi
- 阻性负载/Resistive load : AL2C10:10A@28VDC,240VAC 50~60Hz
AL2C20:20A@28VDC,120VAC/277VAC 50~60Hz
- 马达负载/Motor load: AL2C10:1/3HP@120VAC 50~60Hz ; 1/2HP@240VAC 50~60Hz
AL2C20:1/2HP@120VAC 50~60Hz ; 1HP@277VAC 50~60Hz
- 电气寿命:10A:10万次,20A:5万次 /Electrical Life:100,000 operations under 10A load
50,000 operations under 20A load
- 机械寿命:1000万操作次数, 在无负载情况下/Mechanical Life: 10,000,000 operations at No Load condition.

综合性能参数/Comprehensive performance parameter

- 绝缘电阻/Insulation resistance:500MΩ Min. at 500VDC
- 介电耐压(初始) /Dielectric strength (initial) : 同极触点间1000VAC,1Min/Between contacts of the same polarity 1000VAC,1Min
异极触点间1500VAC,1Min/Between contacts of different polarity 1500VAC,1Min
线圈触点间1500VAC,1Min / Between coil and contacts 1500VAC,1Min
漏电流: 最大3mA / Leakage current: 3 mA Max .
- 动作时间/Operate time: 20ms Max.
- 释放时间/Release time: 20ms Max.

使用环境/Service environment

- 使用环境温度/Ambient temperature: -25~+50℃
- 湿度/Ambient humidity: 5%-85%
- 抗冲击/Shock resistance :冲击强度/Destructive: 1,000 m/s²
稳定性 /Functional: 200 m/s²
- 耐振动/Vibration resistance:10Hz to 55Hz 1mm DA

其它/Other

- 基座材质:UL94V-0, 酚醛塑料,模塑成型, 耐温155度
/The base material:UL94V-0, Phenolic molding compound, temperature resistance155℃
- 防尘外壳: 透明PC/Dust-proof cover: Transparent PC
- 重量/Weight: About 37g
- 安规认证/Safety Approval: cULus UL证书号码 /UL File Number: E521873

线圈参数,在23℃环境下/Coil parameters (At 23℃)

线圈绝缘系统:UL认证, B级, 130度/Coil insulation system: UL Approval, Group B,130℃

线圈规格代码 Coil voltage code	线圈额定电压 Rated coil voltage	线圈电阻 Coil resistance (Ω) ±10%	线圈功率 Power Consumption	动作电压 Operate voltage	释放电压 Release voltage	线圈最大电压 Max. allowable voltage
D006	6 VDC	40	0.89~1.1 W	75% Maximum	10% Minimum	110% Maximum
D012	12 VDC	160				
D024	24 VDC	650				
D048	48 VDC	2600				
D110	110 VDC	11000				
A006	6 VAC	9.5	1.2 VA	80% Maximum	30% Minimum	110% Maximum
A012	12 VAC	46				
A024	24 VAC	180				
A048	48 VAC	770				
A110	110 VAC	3830				
A120	120 VAC	4430				
A220/230	220/230 VAC	15000				
A240	240 VAC	15700				

注: 交流线圈电源频率50~60Hz/Attention:The frequency of AC Coil is 50~60Hz.

继电器规格号示例Part Number Description:

AL 2C XX P C M 4 L XXXX 00G

线圈规格代码Coil Voltage:	D024:DC24V A220:AC220V
LED:	L: 带LED指示灯With LED indicator
按钮类型Button type:	4: 旋转按钮Rotary button, 自锁self-lock
测试按钮Test Button:	M: 手动测试按钮With Manual test button
外壳形式Cover type:	C: 一般外壳plain cover
引出端形式Terminal Type:	P:PCB焊接式端子
触点额定负载Cotact rating:	20: 20A 10:10A
触点形式Contact Arrangement:	2C: DPDT, 两组转换Two groups of conversion
产品型别Series Designation:	AL Series

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PART NO.	AL2CXXPCM4LXXXX00G			DWG NO.	8AL2C-0004		
APPROVED	CHECKED	DESIGNED	DRAWN	CUST NO.			Tolerance
		PansLee 2024.11.12	PansLee 2024.11.12		UNIT: mm		0~1 ±0.2
					SCALE: NONE		>1~5 ±0.3
					SHEET: 02/02		>5 ±0.4
				REV.: B			