

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

Amphenol
ANYTEK
AL2CXXSCM4LXXXX
COIL: ○
XXX XXX

UL US

Diagram illustrating the internal wiring and components of the 212B module. The module features a top terminal block with 8 pins. The wiring connections are as follows:

- Pin 1 is connected to Pin 3.
- Pin 2 is connected to Pin 4.
- Pin 5 is connected to Pin 7.
- Pin 6 is connected to Pin 8.

The internal components, enclosed in a dashed circle, include:

- 20A, 28VDC (RES.)
- 20A, 120VAC (RES.)
- 20A, 277VAC (RES.)
- 1/2HP, 120VAC 50/60Hz / 1HP, 277VAC 50/60Hz

The module is labeled 212B. A dimension of 10.0 is indicated at the bottom.

7.3 36MAX

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

The top view drawing shows the overall dimensions and component placement. The total width is 21.5MAX and the total height is 28MAX. A central circular feature contains a cross symbol and the text "CHINA". Eight rectangular components are arranged around it, numbered 1 through 8. Dimensions include 14.2 for the width of the central area, 7.5 for the distance from the center to the right edge, 5.9 for the distance between the two rows of four components, 4.4 for the distance from the bottom row of components to the bottom edge, and 4.0 for the thickness of the board.

触点视窗/
Contact window

$$\frac{4.75}{8X}$$

Amphenol **ANYTEK**

CUSTOMER COPY

ALL RIGHTS RESERVED. REPRODUCTION OR ISSUE TO THIRD PARTIES IN ANY FORM WHATEVER IS NOT PERMITTED WITHOUT WRITTEN AUTHORITY FROM THE PROPRIETOR. PROPERTY OF ANYTEK TECHNOLOGY CO., LTD

TITLE	AL-DPDT/ROTARY BUTTON/LED/INDICATOR FLAG INDUSTRIAL RELAY
-------	---

PART NO.	AL2CXXSCM4LXXXX00G
----------	--------------------

M4LXXXX00G	DWG NO.	8AL2C-0003
------------	---------	------------

APPROVED

CHECKED

DESIGNED

DRAWN

CUST NO.		Tolerance
----------	--	-----------

PansLee
2024-11-18PansLee
2024-11-18

	UNIT: mm	0~1	±0.2
	SCALE: NONE	>1~5	±0.3

SHEET: 01/02	REV.: B
--------------	---------

SCALE: NONE		
REV.: B	>5	± 0.4

RoHS Compliant

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 S 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:	S: 0.5x4.8 插入型plug-in terminal
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

Amphenol
ANYTEK

CUSTOMER COPY

ALL RIGHTS RESERVED. REPRODUCTION OR ISSUE TO THIRD PARTIES IN ANY FORM WHATEVER IS NOT PERMITTED WITHOUT WRITTEN AUTHORITY FROM THE PROPRIETOR. PROPERTY OF ANYTEK TECHNOLOGY CO., LTD

TITLE		AL-DPDT/ROTARY BUTTON/LED/INDICATOR FLAG INDUSTRIAL RELAY					
PART NO.	AL2CXXSCM4LXXXX00G			DWG NO.	8AL2C-0003		
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			