



- 采用模块层叠结构设计，定位型最多可叠加至8节；
- 全系列产品防护等级可达IP65；
- 外形小巧、精致，安装方便，采用国际通用内置接线方式，接线安全可靠；
- 品种规格齐全，有定位型、复位型、手柄带钥匙型、面板带钥匙型等多种规格；
- 定位角度齐全，有30°、45°、60°、90°

- It adopts a modular stacked structure design. The positioning type can be stacked up to 8 sections at most.
- The protection level of the entire series of products can reach IP65.
- It is compact and exquisite in shape, easy to install, and adopts the internationally common built-in wiring method, ensuring safe and reliable wiring.
- The varieties and specifications are complete, including positioning type, reset type, handle with key type, panel with key type and many other specifications.
- The positioning angles are complete, including 30°, 45°, 60° and 90°

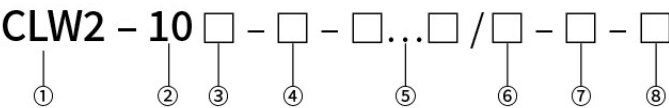


适用范围 Scope of application

CLW2-10系列万能转换开关其约定发热电流为10A，适用于交流50/60Hz，额定绝缘电压690V以下，额定工作电压AC380V、DC220V及以下的电路中作电气线路的接通、分断和转换；对单台电动机的起动、控制和停止（反接制动）之用。亦可在控制电路中作为电气控制转换和配电设备的远距离控制之用。

The CLW2-10 series cam switch has an agreed heating current of 10A. It is suitable for use in circuits with an AC frequency of 50/60Hz, a rated insulation voltage of 690V or less, and a rated working voltage of AC380V, DC220V or less for the connection, disconnection and conversion of electrical circuits. It is used for starting, controlling and stopping (reverse braking) of a single motor. It can also be used in control circuits for electrical control conversion and remote control of power distribution equipment.

选型说明 Model Designation



序号 No	项目 Item	代号 Code	说明 Description
①	产品设计代号 Product design code	CLW2	
②	约定发热电流值 Ith Specify the heating current value	10	Ith:10A
③	功能代码 Function code	C	单孔安装型 Single-hole installation type
		Y1	手柄带钥匙型 Handle with key type
		U	单孔安装无面板型 Single-hole installation without panel type
		UY1	单孔安装无面板手柄带钥匙型 Single-hole installation panelless handle with key type

④	定位特征代码 Location feature code	6KC	6KC 表示操作档位角度为 -60°、0°、60° 定位特征代码的确定, 请参阅“定位圈图”以及“自复式代码表” 6KC indicates that the operating gear Angle is -60°, 0°, 60° For the determination of the positioning feature code, please refer to the "Positioning Circle Chart" and "self-multiple code Table".
⑤	接点代码 Contact code	202	接点代码的确定, 请参阅“常用转换开关型号”和“接点代码表” 或者填写空白接点表, 由我们协助确定 Contact code determination, please refer to the "common switch model" and "Contact code table" Or fill in the blank contact list and let us help determine
⑥	开关节数 Number of open joints	3	开关节数 (1 ~ 12 节) 建议不超过 8 节 It is recommended that the number of open joints (1-12 sections) not exceed 8 sections
⑦	手柄样式 Handle style	AX	见手柄样式代码表 See Handle style code table
⑧	面板样式 Panel style	B14	见面板印字代码 Meet the board print code

定位圈图及使用说明 Positioning circle diagram and instructions for use

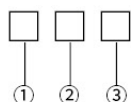
定位特征代码表示转换开关的档位特征, 分为定位式和自复式两类。

The positioning feature code represents the gear characteristics of the cam switch, which is divided into positioning type and self-duplex.

- 定位式不含有自复位操作功能。CLW2-10 系列转换开关可以提供 30°、45°、60°、90° 等多种定位角度。
- 请注意各种定位角度的适用型号, 并请按照定位圈图、代码示例来填写所订购转换开关的定位特征代码。
- 受产品结构限制, 节点逻辑和触点块层数不同, 会影响操作角度的大小。
- Positioning type does not contain self-reset operation function. CLW2-10 series cam switch can provide 30°, 45°, 60°, 90° and other positioning angles.
- Please note the applicable model of each positioning Angle, and fill in the positioning feature code of the ordered cam switch according to the positioning circle diagram and code example.
- Limited by the product structure, the node logic and the number of contact blocks are different, which will affect the size of the operation Angle.

定位角度 Positioning Angle	适用型号 Applicable model	定位圈图 Positioning circle diagram	代码示例 Code example
30°	CLW2-10		“3KC” 表示 30° 定位 K 位置开始, 顺时针到 C 位置结束, 共有 K、O、A、B、C 5 个位置 3KC indicates that the 30° positioning starts at position K and ends clockwise at position C. There are five positions: K, O, A, B, and C
45°	CLW2-10		“4OB” 表示 45° 定位, O 位置开始, 顺时针到 B 位置结束, 共有 O、A、B 3 个位置 4OB indicates 45° positioning, starting from position O and ending clockwise to position B. There are three positions: O, A, and B
60°	CLW2-10		“6KE” 表示 60° 定位, K 位置开始, 顺时针到 E 位置结束, 共有 K、A、C、E 4 个位置 “6KE” indicates 60° positioning, starting from position K and ending clockwise to position E. There are four positions: K, A, C, and E
90°	CLW2-10		“9GC” 表示 90° 定位, G 位置开始, 顺时针到 C 位置结束, 共有 G、A、C 3 个位置 “9GC” indicates 90° positioning, starting from position G and ending clockwise to position C. There are three positions: G, A, and C

代码说明 Code Designation



序号 No	项目 Item	说明 Description			
①	定位角度	“3”表示 30° 3 indicates 30°	“4”表示 45° 4 indicates 45	“6”表示 60° 6 indicates 60°	“9”表示 90° 9 indicates 90°
②	开始档位				
③	结束档位				

注：如果是 360°操作，不限位，则结束档位与开始档位字母相同，例如“3JJ”，表示 30°定位，-90°开始，12 档，不限位。

Note: If it is 360° operation, no limit, then the end gear and the start gear letter is the same, such as "3JJ", indicating 30° positioning, -90° start, 12 gear, no limit.

自复式代码表 Self-compound code table

自复式的一个或几个档位具有自复位功能。CLW2-10 系列转换开关为用户提供数十种自复位方式选择，并可满足用户的特殊需求。

下表列出了常用的自复位功能及其定位特征代码，请注意它们所适用的型号。

One or more gears of the self-duplex have a self-reset function. CLW2-10 series transfer switch provides users with dozens of self-reset mode choices, and can meet the special needs of users.

The following table lists the common self-reset functions and their positioning feature codes, please note the models for which they apply.

注意事项：“Y” 该代码可生产 “Y*” 该代码可生产，最多不超过三节空白不可生产

如有进一步需求，请咨询技术支持部门。

Y = available; Y* = available with a maximum of 3 sections; blank = unavailable.

自复位代码 Self-resetting code	自复位角度 Self-resetting Angle	CLW2-10	自复位代码 Self-resetting code	自复位角度 Self-resetting Angle	CLW2-10
A1	0° ← 30°	Y*	Z1	-135° → -90° 0° ← 45°	Y
A2	0° ← 45°	Y	Z2	-45° → 0° 90° ← 135°	Y
A3	-45° ← 45°	Y	ZA	-90° → -45° 0° 45° ← 90°	Y
A4	-45° ← 0°	Y	ZB	-90° → -45° 0° 45°	Y
A5	0° ← 90°	Y	ZC	-45° 0° 45° ← 90°	Y
B1	-30° → 0° ← 30°	Y*	ZD	-90° 0° ← 45°	Y
B2	-45° → 0° ← 45°	Y	ZE	0° 45° ← 90°	Y
B3	-60° → -30° → 0° ← 30° ← 60°	Y*	ZF	-45° 0° ← 45°	Y
B4	-90° -45° 0° 45° ← 90°	Y	ZG	-45° → 0° 45°	Y
B5	-90° -45° 0° ← 45°	Y	ZK	-45° → 0° 45° 90°	Y
B6	-90° → -60° → -30° → 0° ← 30° ← 60° ← 90°	Y*	ZK1	-45° → 0° 45° 90° 135°	Y
B7	-90° → -45° 0° 45° 90° 135°	Y	W	-120° → -90° 0° ← 30°	Y*
B8	-90° → -45° 0° 45° 90°	Y	WA	-90° 0° ← 30°	Y*
B9	-45° → 0° 45° 90° 135°	Y	WB	-30° → 0° 90°	Y*
B10	-45° → 0° 45° 90° 135° 180°	Y	WC	0° 90° ← 120°	Y*
B11	-45° → 0° ← 45° ← 90°	Y	WR	-120° → -90° 0° 90° ← 120°	Y*
BA	-90° → -45° → 0° ← 45° ← 90°	Y	WS	-90° 0° 90° ← 120°	Y*
BA1	-45° → 0° → 45° ← 90° ← 135°	Y	WT	-120° → -90° 0° 90°	Y*
BC	-45° → 0° 0° ← 45°	Y	WU	-90° -30° → 0° ← 30°	Y*
D4	0° ← 45° ← 90°	Y	WV	-90° 0° ← 30° 90°	Y*

接点代码编写规则 Contact code writing rules

型号一栏中的接点代码可有以下二种方法编写:

- 1、在本公司《接点代码表》中查写;
- 2、由我们替您编写,但是需要您提供接点表,接线图,或者填写空白接点表;

举例:

要求:3档,第1档有4对触点接通,第2档有2对触点接通,第3档有4对触点接通,由《接点代码表》中查得接点代码为:424/3

The contact code in the model column can be written in the following two ways:

- 1. Check and write in the company's "Contact code Table";
- 2, written by us for you, but you need to provide contact table, wiring diagram, or fill in the blank contact table;

Example:

Requirements :3 gear, the first gear has 4 pairs of contacts connected, the second gear has 2 pairs of contacts connected, the third gear has 4 pairs of contacts connected, the contact code found in the contact code table is :424/3

接点代码 Contact code	424/3		
操作档位 Operating gear	1	2	3
1-2	×		×
3-4	×		×
5-6	×		×
7-8	×		×
9-10		×	
11-12		×	

如《接点代码表》查不到相对应的接点表,客户需提供接点图(可参考空白接点表填写),并在接点代码后加“×”。

接点代码: 424×

If the contact Code Table cannot find the corresponding contact table, the customer needs to provide the contact diagram (refer to the blank contact table to fill in), and add "×" after the contact code.

Contact code: 424×

接点代码 Contact code	424×/3		
操作档位 Operating gear	1	2	3
1-2	×		×
3-4	×		
5-6		×	×
7-8	×		×
9-10			×
11-12	×	×	

注: 接点表中 × 表示触点接通状态。
Note: × in the contact table indicates the contact connected status.

手柄样式 Handle style



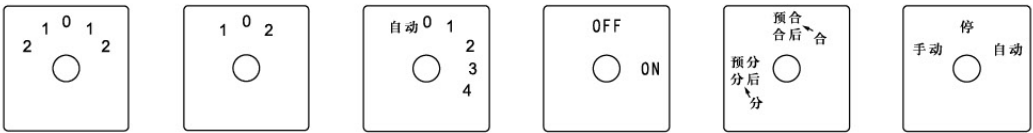
AX

注: 颜色可选, K- 黑色, C- 蓝色, R- 红色 。
Note: The colors are optional. K- black, C- Blue, R- red.

面板印字代码 Panel print code

面板印字代码表示转换开关面板印字的具体要求。用户可以默认印字内容见接点表，面板示例见下图。
如果订货型号中没有面板印字代码，工厂将按照默认印字规则提供面板。

The panel print code indicates the specific requirements of the switch panel print. Users can default printing content in the contact table, the panel example is shown in the following figure.
If there is no panel print code in the order model, the factory will supply the panel according to the default printing rules.



- 3、特殊印字，用“P”表示。
- 3.Special printing, represented by "P".

电气参数 Electrical parameter

测试类型 Test type	测试项目 Test item	指标要求（常规型） Index requirements (conventional type)
技术参数 Technical parameter	符合标准 Meet the standard	GB/T 14048.5
	约定发热电流 Ith Specified heating current Ith	10A
	额定绝缘电压 Ui Rated insulation voltage Ui	AC 690V
	额定冲击耐受电压 Uimp Rated impulse withstand voltage Uimp	4kV
	频率 Frequency	50Hz
	机械寿命 Mechanical life	50 万次 500,000 times
	抗冲击 Impact resistance	11 ms, 50g, 半波正弦 11 ms, 50g, half wave sine
	抗振动 Vibration resistance	10 ... 500 Hz:5g
	操作频次（次数 / 小时） Operation frequency (number/hour)	300
	电气寿命 Electrical life	交流 30 万次，直流 20 万次 AC 300,000 times, DC 200,000 times
使用条件 Conditions of use	使用环境温度 Operating ambient temperature	-25°C ~+55°C
	环境湿度 Ambient humidity	≤ 90%
	污染等级 Pollution level	3
	安装类别 Installation category	III
	存储、运输温度 Storage and transportation temperature	-40°C ~+80°C
	防护等级 Class of protection	IP65(工作面 Working face)

额定工作电压 / 额定工作电流 Rated working voltage/rated working current

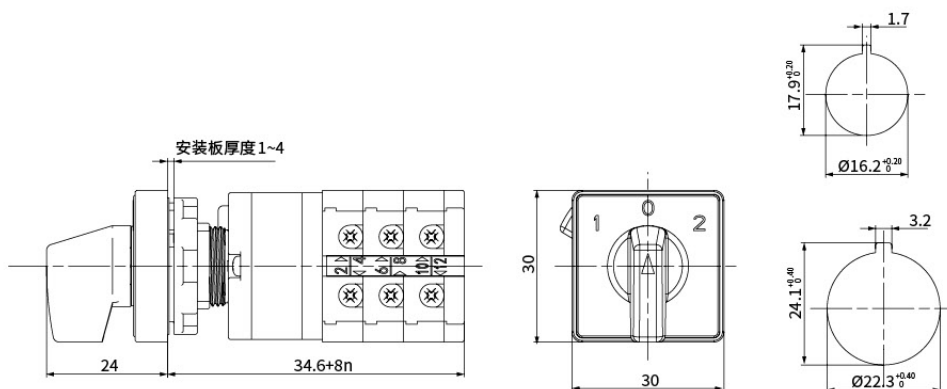
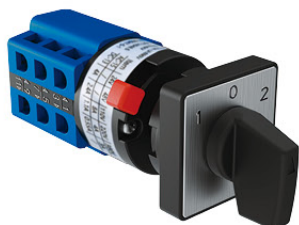
使用类别 Category of use	24V	48V	110V	220V	380V
AC-15	/	/	/	/	1.2A
DC-13	/	/	/	0.12A	/

外观和尺寸 Appearance and Dimension

CLW2-10C

单孔安装型
Single-hole
installation type

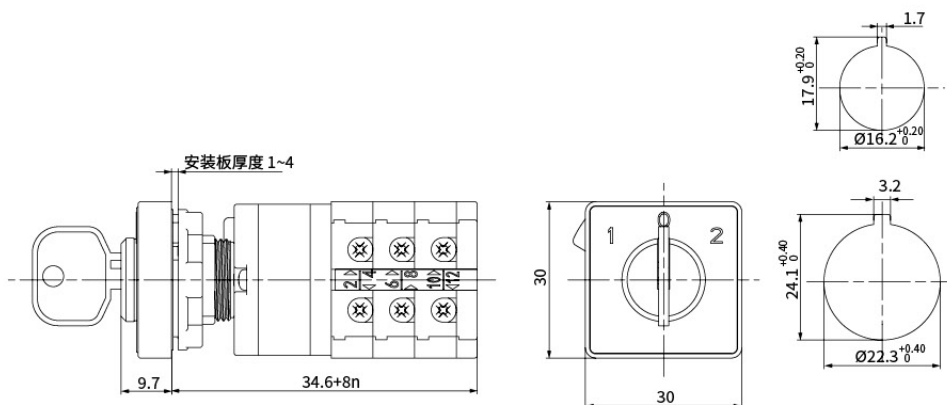
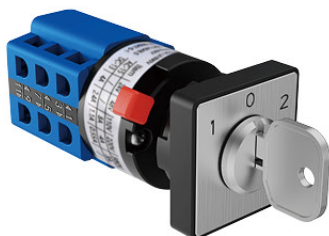
定位角度: 30° 45° 60° 90°, 最大 8 节, 推荐 6 节以内, 适用 AX 型手柄
Positioning Angle: 30°, 45°, 60°, 90°. Maximum 8 sections. It is recommended to have 6 sections or less.
Suitable for AX type handles



CLW2-10Y1

手柄带钥匙型
Handle with key type

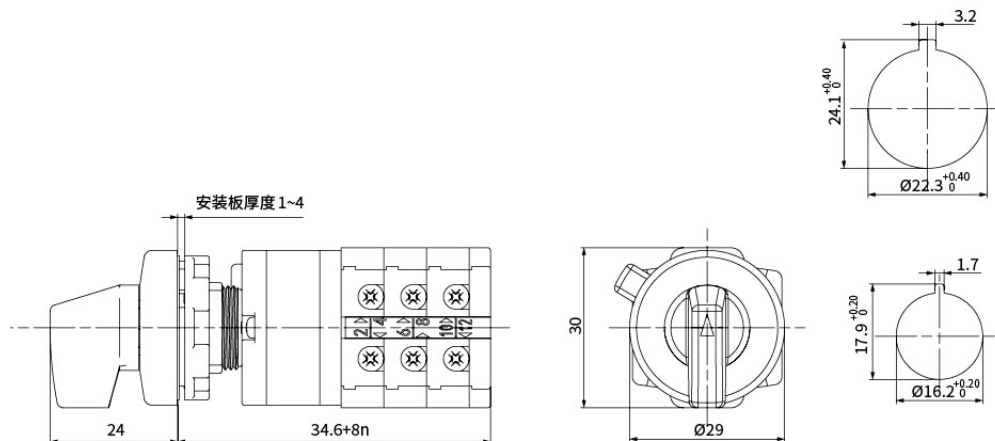
定位角度: 30° 45° 60° 90°, 最大 8 节, 推荐 6 节以内
Positioning Angle: 30°, 45°, 60°, 90°, maximum 8 sections, recommended 6 sections



CLW2-10U

单孔安装无面板型
Single-hole installation
without panel type

定位角度: 30° 45° 60° 90°, 最大 8 节, 推荐 6 节以内, 适用 AX 型手柄
Positioning Angle: 30°, 45°, 60°, 90°. Maximum 8 sections. It is recommended to have 6 sections or less. Suitable for AX type handles

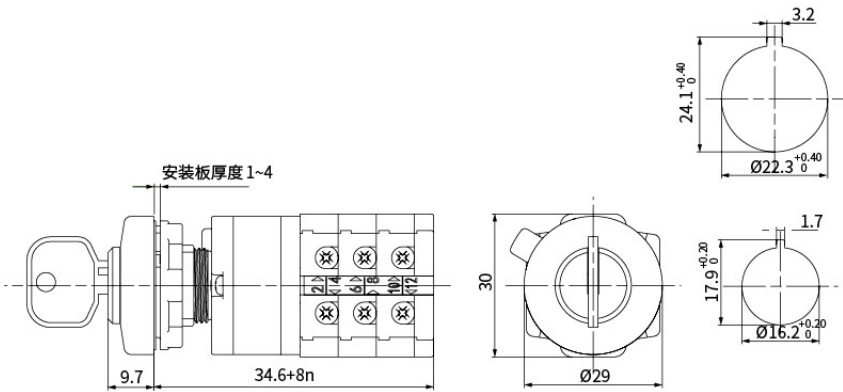


外观和尺寸 Appearance and Dimension

CLW2-10UY1

单孔安装无面板手柄
带钥匙型
Single-hole installation
panelless handle with
key type

定位角度：30° 45° 60° 90°，最大 8 节，推荐 6 节以内
Positioning angles: 30°, 45°, 60°, 90°. Maximum 8 sections. It is recommended to have 6 sections or less



常用转换开关型号 Electrical parameter

一般通断开关
General on-off switch

节数 Pitch number	印字 Lettering	0	1	型号
1 节	1-2		×	CLW2-□□-□-02/1
	3-4		×	
2 节	5-6		×	CLW2-□□-□-04/2
	7-8		×	
3 节	9-10		×	CLW2-□□-□-06/3
	11-12		×	
4 节	13-14		×	CLW2-□□-□-08/4
	15-16		×	
5 节	17-18		×	CLW2-□□-□-0A/5
	19-20		×	
6 节	21-22		×	CLW2-□□-□-0C/6
	23-24		×	
7 节	25-26		×	CLW2-□□-□-0E/7
	27-28		×	
8 节	29-30		×	CLW2-□□-□-0G/8
	31-32		×	

示例：CLW2-10-4AB-06/3，表示 CLW2-10 型 3 节通断开关，定位角度 0°、45°，面板印字 0、1
Example: CLW2-10-4AB-06/3 indicates the CLW2-10 3-section on-off switch, positioning Angle 0°, 45°, panel printing 0, 1

双掷开关无“0”位，触头独立
The double-throw switch has no "0" bit and independent contacts

节数 Pitch number	印字 Lettering	1	2	型号
1 节	1-2	×		CLW2-□□-□-11/1
	3-4		×	
2 节	5-6	×		CLW2-□□-□-22/2
	7-8		×	
3 节	9-10	×		CLW2-□□-□-33/3
	11-12		×	
4 节	13-14	×		CLW2-□□-□-44/4
	15-16		×	
5 节	17-18	×		CLW2-□□-□-55/5
	19-20		×	
6 节	21-22	×		CLW2-□□-□-66/6
	23-24		×	
7 节	25-26	×		CLW2-□□-□-77/7
	27-28		×	
8 节	29-30	×		CLW2-□□-□-88/8
	31-32		×	

示例：CLW2-10-9OB-33/3，表示 CLW2-10 型 3 节双掷开关，定位角度 -45°、45°，面板印字 1、2
Example: CLW2-10-9OB-33/3, indicates CLW2-10 type 3-section double-throw switch, positioning Angle -45°, 45°, panel printing 1, 2

双掷开关 无“0”位，双号装连接片
The double-throw switch has no "0" bit and is equipped with a double-numbered connector

节数 Pitch number	印字 Lettering	1	2	型号
1 节	1-2	×		CLW2-□□-□-11J/1
	3-4		×	
2 节	5-6	×		CLW2-□□-□-22J/2
	7-8		×	
3 节	9-10	×		CLW2-□□-□-33J/3
	11-12		×	
4 节	13-14	×		CLW2-□□-□-44J/4
	15-16		×	
5 节	17-18	×		CLW2-□□-□-55J/5
	19-20		×	
6 节	21-22	×		CLW2-□□-□-66J/6
	23-24		×	
7 节	25-26	×		CLW2-□□-□-77J/7
	27-28		×	
8 节	29-30	×		CLW2-□□-□-88J/8
	31-32		×	

示例：CLW2-10-60B-33J/3，表示 CLW2-10 型 3 节双掷开关，带连接片，定位角度 -30°、30°，面板印字 1、2
Example: CLW2-10-60B-33J/3, indicating CLW2-10 type 3-section double-throw switch, with connection piece, positioning Angle -30° , 30° , panel printing 1, 2

双掷开关 有“0”位，触头独立
The double-throw switch has a "0" bit and independent contacts

节数 Pitch number	印字 Lettering	1	0 0°	2	型号
1 节	1-2	×			CLW2-...-101/1
	3-4			×	
2 节	5-6	×			CLW2-...-202/2
	7-8			×	
3 节	9-10	×			CLW2-...-303/3
	11-12			×	
4 节	13-14	×			CLW2-...-404/4
	15-16			×	
5 节	17-18	×			CLW2-...-505/5
	19-20			×	
6 节	21-22	×			CLW2-...-606/6
	23-24			×	
7 节	25-26	×			CLW2-...-707/7
	27-28			×	
8 节	29-30	×			CLW2-...-808/8
	31-32			×	

Example: CLW2-10-40B-303/3; three-section independent center-off.
Positions: -45deg, 0deg, 45deg; panel marks: 1, 0, 2.

双掷开关 有“0”位，双号装连接片
The double-throw switch has a "0" bit and is equipped with a double-numbered connector

节数 Pitch number	印字 Lettering	1	0 0°	2	型号
1 节	1-2	×			CLW2-...-101J/1
	3-4			×	
2 节	5-6	×			CLW2-...-202J/2
	7-8			×	
3 节	9-10	×			CLW2-...-303J/3
	11-12			×	
4 节	13-14	×			CLW2-...-404J/4
	15-16			×	
5 节	17-18	×			CLW2-...-505J/5
	19-20			×	
6 节	21-22	×			CLW2-...-606J/6
	23-24			×	
7 节	25-26	×			CLW2-...-707J/7
	27-28			×	
8 节	29-30	×			CLW2-...-808J/8
	31-32			×	

Example: CLW2-10-40B-404J/4
Four-section bridged center-off; positions -45deg, 0deg, 45deg.
Panel marks: 1, 0, 2.

多档开关，3 档开关
Multi-speed switch, 3-speed switch

节数 Pitch number	印字 Lettering	1	2	3	型号
1 节	1-2	×			CLW2-□□-□-111J/1
	3-4		×		
2 节	5-6			×	CLW2-□□-□-212J/2
	7-8	×			
3 节	9-10		×		CLW2-□□-□-313J/3
	11-12			×	
4 节	13-14	×			CLW2-□□-□-414J/4
	15-16		×		
5 节	17-18			×	CLW2-□□-□-515J/5
	19-20	×			
6 节	21-22		×		CLW2-□□-□-616J/6
	23-24			×	
7 节	25-26	×			CLW2-□□-□-717J/7
	27-28		×		
8 节	29-30			×	CLW2-□□-□-818J/8
	31-32	×			

多档开关, 4 档开关
Multi-speed switch, 4-speed switch

节数 Pitch number	印字 Lettering	1	2	3	4	型号
1 节	1-2	×				CLW2-□□-□-1111J/2
	3-4		×			
2 节	5-6			×		CLW2-□□-□-2222J/4
	7-8				×	
3 节	9-10	×				CLW2-□□-□-3333J/6
	11-12		×			
4 节	13-14			×		CLW2-□□-□-4444J/8
	15-16				×	
5 节	17-18	×				CLW2-□□-□-5555J/10
	19-20		×			
6 节	21-22			×		CLW2-□□-□-6666J/12
	23-24				×	
7 节	25-26	×				CLW2-□□-□-7777J/14
	27-28		×			
8 节	29-30			×		CLW2-□□-□-8888J/16
	31-32				×	

Five-position reference switch

节数 Pitch number	印字 Lettering	1	2	3	4	5	型号
1 节	1-2	×					CLW2-□□-□-1x5J/3
	3-4					×	
2 节	5-6		×				CLW2-□□-□-2x5J/5
	7-8			×			
3 节	9-10				×		CLW2-□□-□-3x5J/7
	11-12			×			
4 节	13-14			×			CLW2-□□-□-4x5J/9
	15-16				×		
5 节	17-18	×					CLW2-□□-□-5x5J/11
	19-20					×	
6 节	21-22	×					CLW2-□□-□-6x5J/13
	23-24					×	
7 节	25-26		×				CLW2-□□-□-7x5J/15
	27-28			×			
8 节	29-30			×			CLW2-□□-□-8x5J/17
	31-32				×		

电压测量转换开关 Voltage measurement switch

有“0”位、有 N 线, 转换测量三相相电压

There is a "0" bit, there is an N line, convert to measure the three-phase phase voltage

CLW2-10-YH1/3					
		0	A	B	C
		0°	90°	180°	270°
A	1-2		×		
C	3-4				×
B	5-6			×	
N	9-10		×	×	×

有“0”位、转换测量三相相电压

Off position; selection of three line-to-line voltages.

CLW2-10-YH2/3					
		0	AB	BC	CA
		0°	90°	180°	270°
B	1-2		×	×	
A	5-6				×
	7-8		×		
C	11-12			×	×

有“0”位、无 N 线, 转换测量三相相电压

Off position; no neutral; selection of three line-to-line voltages.

CLW2-10-YH3/3					
		0	AB	BC	CA
		0°	90°	180°	270°
A	1-2		×		
	3-4				×
B	5-6			×	
	7-8		×		
C	9-10				×
	11-12			×	

无“0”位, 转换测量三相相电压

No off position; selection of three line-to-line voltages.

CLW2-10-YH4/2				
		A	B	C
		-90°	0°	90°
B	1-2	×	×	
C	3-4		×	×
A	5-6			×
	7-8	×		

有“0”位、无N线，转换测量三相相电压
Off position; no neutral; selection of three line-to-line voltages.

CLW2-10-YH12/2				
	0	AB	BC	CA
	0°	90°	180°	270°
A 1-2				×
3-4		×		
B 5-6		×	×	
C 7-8			×	×

无“0”位、有N线，转换测量三相相电压
No "0" bit, N line, converted to measure three-phase voltage

CLW2-10-YH13/2				
A72 B100	A	B	C	
	90°	180°	270°	
A 1-2	×			
B 3-4		×		
C 5-6			×	
N 7-8	×	×	×	

有“0”位、无N线，转换测量三相相电压
Off position; no neutral; selection of three line-to-line voltages.

CLW2-10-YH22/3				
A75 B103	0	AB	BC	CA
	0°	90°	180°	270°
A 1-2		×		
3-4				×
B 5-6			×	
7-8		×		
C 9-10				×
11-12			×	

有“0”位、有N线，转换测量三相相电压和三相线电压
There is a "0" bit and an N line, and the three-phase phase voltage and three-phase line voltage are converted and measured

CLW2-10-YH5/4							
	CA	BC	AB	0	AN	BN	CN
	-135°	-90°	-45°	0°	45°	90°	135°
C 1-2		×					×
B 3-4			×			×	
5-6	×						
A 7-8				×			
9-10					×		×
11-12	×		×				
N 13-14						×	
15-16		×					

有“0”位、转换测量2个电源各自的三相线电压
There is a "0" bit, the conversion measures the three-phase line voltage of the two power supplies

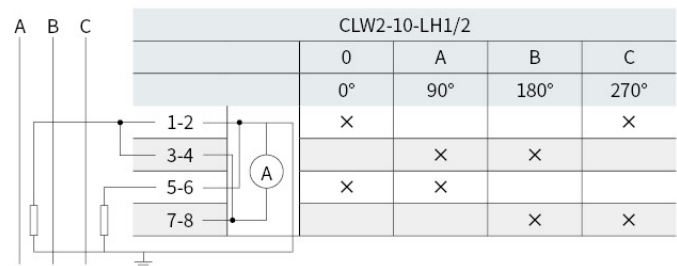
CLW2-10-YH6/4							
	1CA	1BC	1AB	0	2AB	2BC	2CA
	-135°	-90°	-45°	0°	45°	90°	135°
2A 1-2					×		×
1A 3-4	×		×				
2B 5-6						×	
1C 7-8		×					
9-10					×		
11-12	×						
2C 13-14						×	×
1B 15-16		×	×				

有“0”位、有N线，转换测量一相相电压和三相线电压
There is a "0" bit, there is an N line, convert to measure a phase voltage and a three-phase line voltage

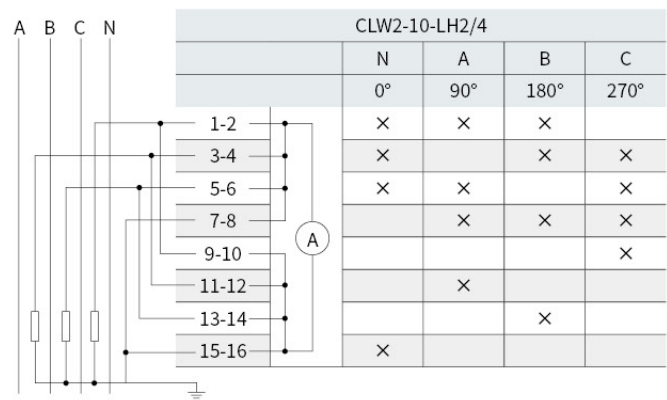
CLW2-10-YH8/4				
	CA	BC	AB	0
	-135°	-90°	-45°	0°
C 1-2		×		
B 3-4			×	
5-6	×			
A 7-8				×
9-10				×
11-12	×		×	
N 13-14				
15-16		×		

电流测量转换开关 Current measurement switch

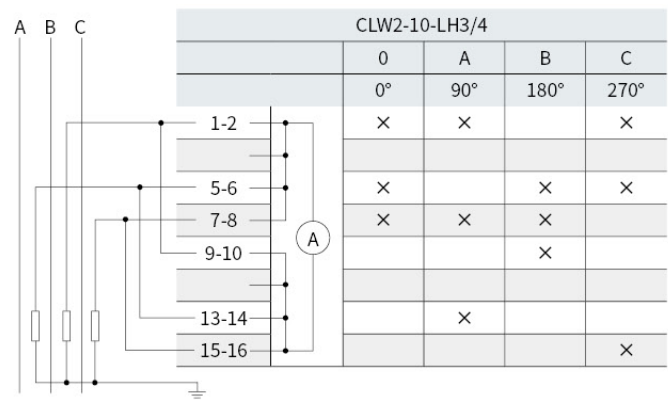
两个互感器、有“0”线、无 N 线、转换测量三相电流
Two transformers, with "0" line, no N line, convert to measure three-phase current



三个互感器、有 N 线、转换测量 A、B、C、N 三相四线电流
Three transformers, N line, conversion measurement A, B, C, N three-phase four-wire current



Three current transformers; off position; A/B/C current selection.
The illustrated selector circuit has no neutral connection.



输配电分合闸控制开关 Power transmission and distribution switching control switch

CLW2-10 型开关 CLW2-10 type switch

开关型号 Switch type		CLW2-10-ZJ/1a.4.6a.40.20/7					
面板标志 Panel marker		分后 After trip	预合 Pre-close	合 Close	合后 After close	预分 Pre-trip	分 Trip
手柄方向 Handle direction		←	↑	↗	↑	←	↙
手柄角度 Handle angle		-90°	0°	45°→	0°	-90°	-135°→
1a	1-3		×		×		
	2-4	×				×	
4	5-8			×			
	6-7						×
6a	9-10		×		×		
	10						
	9-12			×			
	11-10	×				×	×
40	13-14		×			×	
	15-14	×					×
	13-16			×	×		
20	17-19			×	×		
	20-18	×					×
	17-18		×			×	

注：替代 CLW2-10-Z-1a.4.6a.40.20/F8
Note: Substitute CLW2-10-Z-1a.4.6a.40.20/F8

开关型号 Switch type		CLW2-10-Z/49.6781/8					
面板标志 Panel marker		分后 After trip	预合 Pre-close	合 Close	合后 After close	预分 Pre-trip	分 Trip
手柄方向 Handle direction		←	↑	↗	↑	←	↙
手柄角度 Handle angle		-90°	0°	45°→	0°	-90°	-135°→
1-2			×		×		
	3-4	×				×	
5-6				×			
	7-8						×
9-10			×		×		
	11-12						
13-14				×			
	15-16	×				×	×
17-18							×
	19-20						
21-22			×			×	
	23-24	×					×
25-26				×	×		
	27-28			×	×		
29-30			×			×	
	31-32	×					×

注：替代 CLW2-10-Z-1a.4.6a.40.20/F8
Note: Substitute CLW2-10-Z-1a.4.6a.40.20/F8

开关型号 Switch type		CLW2-10-Z/1a.4.20/4					
面板标志 Panel marker		分后 After trip	预合 Pre-close	合 Close	合后 After close	预分 Pre-trip	分 Trip
手柄方向 Handle direction		←	↑	↗	↑	←	↙
位置角度 Position angle		-90°	0°	45°→	0°	-90°	-135°→
1a	1-2		×		×		
	3-4	×				×	
4	5-6			×			
	7-8						×
20	9-10			×	×		
	11-12		×			×	
	13-14	×					×
	15-16						

注：替代 CLW2-10-Z-1a.20/F8
Note: Substitute CLW2-10-Z-1a.20/F8

开关型号 Switch type		CLW2-10-Z/1a.4.6a.40.20/5					
面板标志 Panel marker		分后 After trip	预合 Pre-close	合 Close	合后 After close	预分 Pre-trip	分 Trip
手柄方向 Handle direction		←	↑	↗	↑	←	↙
位置角度 Position angle		-90°	0°	45°→	0°	-90°	-135°→
1a	1-2		×		×		
	3-4	×				×	
4	5-6			×			
	7-8						×
6a	9-10		×	×	×		
	11-12	×				×	×
40	13-14	×	×			×	×
	15-16			×	×		
20	17-18			×	×		
	19-20	×					×

注：替代 CLW2-10-Z-1a.4.6a.40.20/F8
Note: Substitute CLW2-10-Z-1a.4.6a.40.20/F8

开关型号 Switch type		CLW2-10-ZJ/1a.4.6a.20/6					
面板标志 Panel marker		分后 After trip	预合 Pre-close	合 Close	合后 After close	预分 Pre-trip	分 Trip
手柄方向 Handle direction		←	↑	↗	↑	←	↙
位置角度 Position angle		-90°	0°	45°→	0°	-90°	-135°→
1a	1-3		×		×		
	2-4	×				×	
4	5-8			×			
	6-7						×
6a	9-10		×		×		
	10						
	9-12			×			
	11-10	×				×	×
20	13-14		×			×	
	13-15			×	×		
	16-14	×					×

电容器柜调节开关 Capacitor cabinet regulating switch

8 路电容器主柜调节开关 8-way capacitor main cabinet adjustment switch

CLW2-10-3OI-21-9/6										
	自动 Auto	0	1	2	3	4	5	6	7	8
	-30°	0°	30°	60°	90°	120°	150°	180°	210°	240°
1-2			×	×	×	×	×	×	×	×
3-4	×									
5-6	×									
7-8		×	×	×	×	×	×	×	×	×
9-10			×	×	×	×	×	×	×	×
11-12				×	×	×	×	×	×	×
13-14					×	×	×	×	×	×
15-16						×	×	×	×	×
17-18							×	×	×	×
19-20								×	×	×
21-22									×	×
23-24										×

8 路电容器辅柜调节开关 8-way capacitor auxiliary cabinet adjustment switch

CLW2-10-3JF-0-8/4									
	0	1	2	3	4	5	6	7	8
	-90°	-60°	-30°	0°	30°	60°	90°	120°	150°
1-2		×	×	×	×	×	×	×	×
3-4			×	×	×	×	×	×	×
5-6				×	×	×	×	×	×
7-8					×	×	×	×	×
9-10						×	×	×	×
11-12							×	×	×
13-14								×	×
15-16									×

6 路电容器主柜调节开关 6-way capacitor main cabinet adjustment switch

Pair	Auto	0	1	2	3	4	5	6
1-2	-	-	X	X	X	X	X	X
3-4	-	X	-	-	-	-	-	-
5-6	-	X	-	-	-	-	-	-
7-8	-	-	X	X	X	X	X	X
9-10	-	-	-	X	X	X	X	X
11-12	-	-	-	-	X	X	X	X
13-14	-	-	-	-	-	X	X	X
15-16	-	-	-	-	-	-	X	X
17-18	-	-	-	-	-	-	-	X
19-20	-	-	-	-	-	-	-	-

CLW2-10-3OG-21-7/5; Auto -30deg; stages 0-6: 0-180deg / 30deg.

6 路电容器辅柜调节开关 6-way capacitor auxiliary cabinet adjustment switch

CLW2-10-3JD-0-6/3							
	0	1	2	3	4	5	6
	-90°	-60°	-30°	0°	30°	60°	90°
1-2		×	×	×	×	×	×
3-4			×	×	×	×	×
5-6				×	×	×	×
7-8					×	×	×
9-10						×	×
11-12							×

10 路电容器主柜调节开关 10-way capacitor main cabinet adjustment switch

CLW2-10-3OK-21-AC/7												
	自动 Auto	0	1	2	3	4	5	6	7	8	9	10
	-30°	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
1-2			×	×	×	×	×	×	×	×	×	×
3-4		×										
5-6		×										
7-8			×	×	×	×	×	×	×	×	×	×
9-10				×	×	×	×	×	×	×	×	×
11-12					×	×	×	×	×	×	×	×
13-14						×	×	×	×	×	×	×
15-16							×	×	×	×	×	×
17-18								×	×	×	×	×
19-20									×	×	×	×
21-22										×	×	×
23-24											×	×
25-26												×
27-28												×

10 路电容器辅柜调节开关 10-way capacitor auxiliary cabinet adjustment switch

CLW2-10-3JH-0-A/5											
	0	1	2	3	4	5	6	7	8	9	10
	-90°	-60°	30°	0°	30°	60°	90°	120°	150°	180°	210°
1-2		×	×	×	×	×	×	×	×	×	×
3-4			×	×	×	×	×	×	×	×	×
5-6				×	×	×	×	×	×	×	×
7-8					×	×	×	×	×	×	×
9-10						×	×	×	×	×	×
11-12							×	×	×	×	×
13-14								×	×	×	×
15-16									×	×	×
17-18										×	×
19-20											×

操作电动机开关的产品型号 Model of the product that operates the motor switch

CLW2-□□□□ / □ - □
① ② ③

序号 No	说明 Description
①	约定发热电流 Conventional heating current
②	用途特征代号见下表 Use characteristic code is shown in the table below
③	电动机功率 (kW) Motor power (kW)

用途 Use

操作电动机的用途特征代号 Purpose characteristic code for operating motor				
用途 Use	直接启动鼠笼式电动机 Direct start squirrel cage motor	正反向启动鼠笼式电动机 Start the squirrel cage motor in reverse direction	双速电动机直接启动和变速 Two-speed motors direct start and shift	星三角启动鼠笼式电动机 Star triangle start squirrel-cage motor
特征代号 Feature code	Q	N	S	XS

功能 Feature	型号 Model	面板标志 Panel marker	接点表 Contact list																																								
直接起动，运转中断开 Direct start, the operation is interrupted	CLW2-10-Q3/2		<table><tr><th>面板标志 Panel marker</th><th>OFF</th><th>ON</th></tr><tr><th>手柄角度 Handle angle</th><td>0°</td><td>45°</td></tr><tr><td>A 1-2</td><td></td><td>×</td></tr><tr><td>B 3-4</td><td></td><td>×</td></tr><tr><td>C 5-6</td><td></td><td>×</td></tr><tr><td>7-8</td><td></td><td></td></tr></table>	面板标志 Panel marker	OFF	ON	手柄角度 Handle angle	0°	45°	A 1-2		×	B 3-4		×	C 5-6		×	7-8																								
面板标志 Panel marker	OFF	ON																																									
手柄角度 Handle angle	0°	45°																																									
A 1-2		×																																									
B 3-4		×																																									
C 5-6		×																																									
7-8																																											
起动、反接制动 反转、密接通断 Start and reverse braking Reverse, close on or off	CLW2-10-N1.2/3		<table><tr><th>面板标志 Panel marker</th><th>1</th><th>0</th><th>2</th></tr><tr><th>手柄角度 Handle angle</th><td>-45°</td><td>0°</td><td>45°</td></tr><tr><td>A 1-2</td><td></td><td></td><td>×</td></tr><tr><td>B 3-4</td><td>×</td><td></td><td></td></tr><tr><td>5-6</td><td>×</td><td></td><td></td></tr><tr><td>7-8</td><td></td><td></td><td>×</td></tr><tr><td>C 9-10</td><td>×</td><td></td><td>×</td></tr><tr><td>11-12</td><td>×</td><td></td><td>×</td></tr></table>	面板标志 Panel marker	1	0	2	手柄角度 Handle angle	-45°	0°	45°	A 1-2			×	B 3-4	×			5-6	×			7-8			×	C 9-10	×		×	11-12	×		×								
面板标志 Panel marker	1	0	2																																								
手柄角度 Handle angle	-45°	0°	45°																																								
A 1-2			×																																								
B 3-4	×																																										
5-6	×																																										
7-8			×																																								
C 9-10	×		×																																								
11-12	×		×																																								
双速电动机 起动与变速 Two-speed motor Starting and shifting	CLW2-10-S3/4		<table><tr><th>面板标志 Panel marker</th><th>1</th><th>0</th><th>2</th></tr><tr><th>手柄角度 Handle angle</th><td>-45°</td><td>0°</td><td>45°</td></tr><tr><td>A 1-2</td><td>×</td><td></td><td>×</td></tr><tr><td>3-4</td><td></td><td></td><td>×</td></tr><tr><td>B 5-6</td><td>×</td><td></td><td>×</td></tr><tr><td>7-8</td><td>×</td><td></td><td></td></tr><tr><td>9-10</td><td></td><td></td><td>×</td></tr><tr><td>11-12</td><td>×</td><td></td><td></td></tr><tr><td>13-14</td><td>×</td><td></td><td>×</td></tr><tr><td>C 15-16</td><td></td><td></td><td>×</td></tr></table>	面板标志 Panel marker	1	0	2	手柄角度 Handle angle	-45°	0°	45°	A 1-2	×		×	3-4			×	B 5-6	×		×	7-8	×			9-10			×	11-12	×			13-14	×		×	C 15-16			×
面板标志 Panel marker	1	0	2																																								
手柄角度 Handle angle	-45°	0°	45°																																								
A 1-2	×		×																																								
3-4			×																																								
B 5-6	×		×																																								
7-8	×																																										
9-10			×																																								
11-12	×																																										
13-14	×		×																																								
C 15-16			×																																								

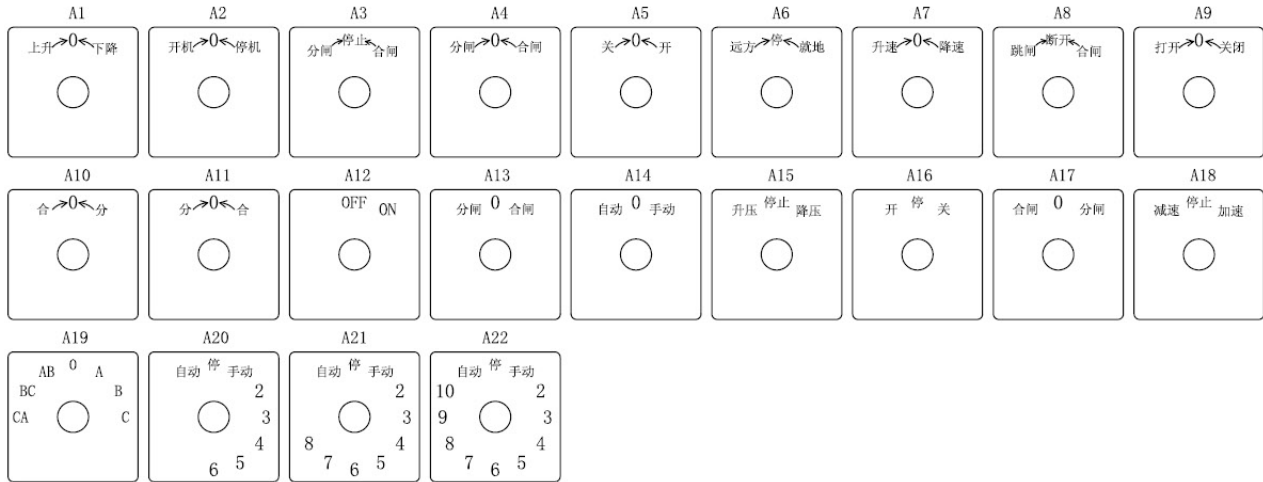
空白接点表 Blank contact list

客户名称：					联系人：							
联系方式：（电话）					传真：							
转换开关基本参数描述：												
约定发热电流：					A							
功能型号选择：					手柄选择：（填写代码）							
面板标志												
手柄方向												
触头编号及 分合状态	1 ○—○—○—○ 2											
	3 ○—○—○—○ 4											
	5 ○—○—○—○ 6											
	7 ○—○—○—○ 8											
	9 ○—○—○—○ 10											
	11 ○—○—○—○ 12											
	13 ○—○—○—○ 14											
	15 ○—○—○—○ 16											
	17 ○—○—○—○ 18											
	19 ○—○—○—○ 20											
	21 ○—○—○—○ 22											
	23 ○—○—○—○ 24											
	25 ○—○—○—○ 26											
	27 ○—○—○—○ 28											
	29 ○—○—○—○ 30											
	31 ○—○—○—○ 32											
	33 ○—○—○—○ 34											
	35 ○—○—○—○ 36											
	37 ○—○—○—○ 38											
	39 ○—○—○—○ 40											
41 ○—○—○—○ 42												
43 ○—○—○—○ 44												
45 ○—○—○—○ 46												
47 ○—○—○—○ 48												
转换开关型号（厂方填写）：												

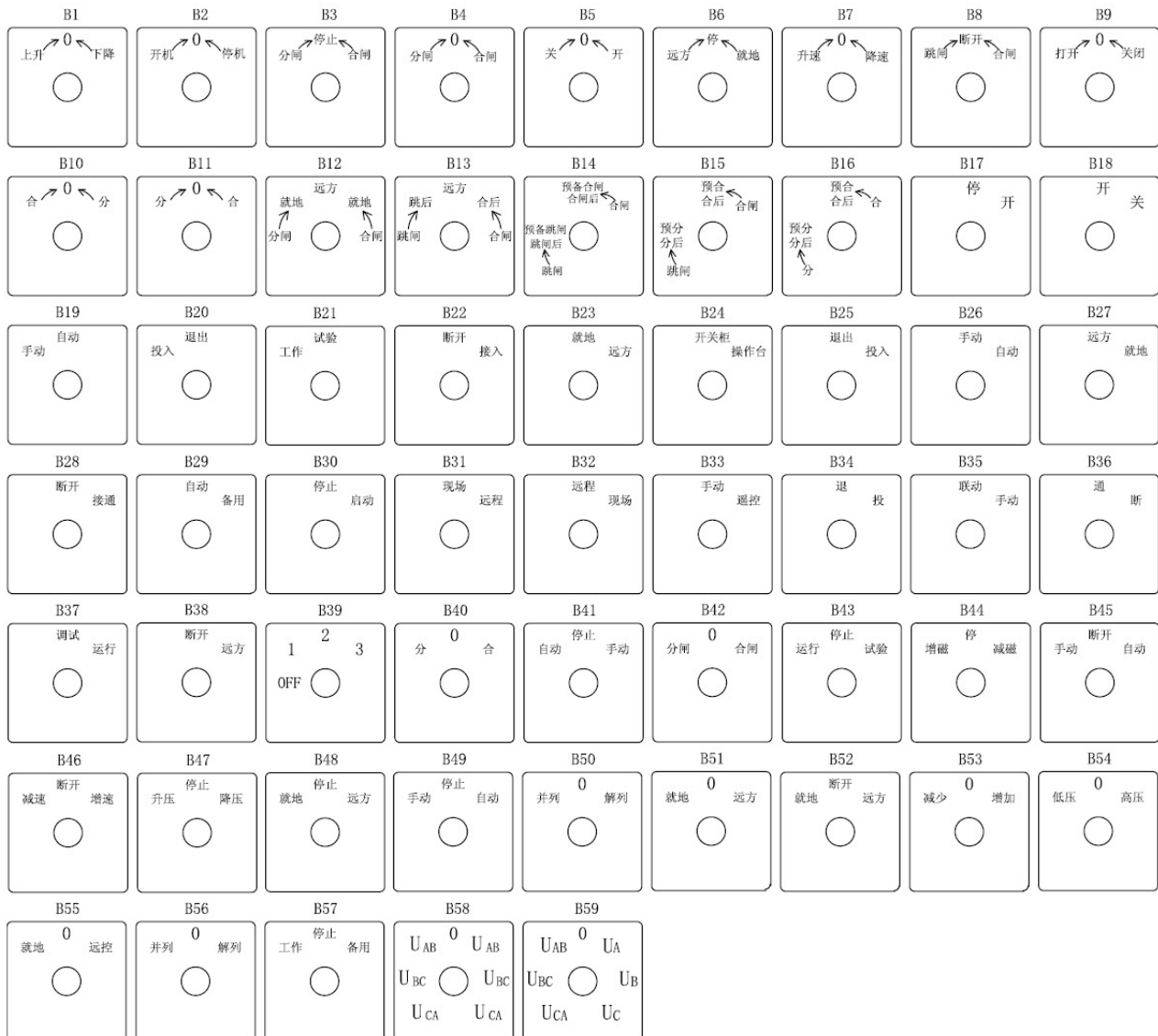
常用面板示例 Common panel examples

中英文面板 Chinese English panel

角度 Angle 30°



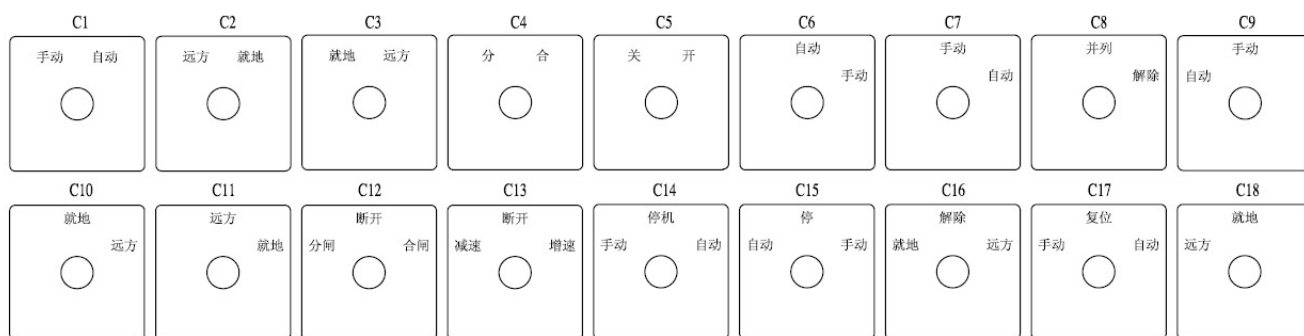
角度 Angle 45°



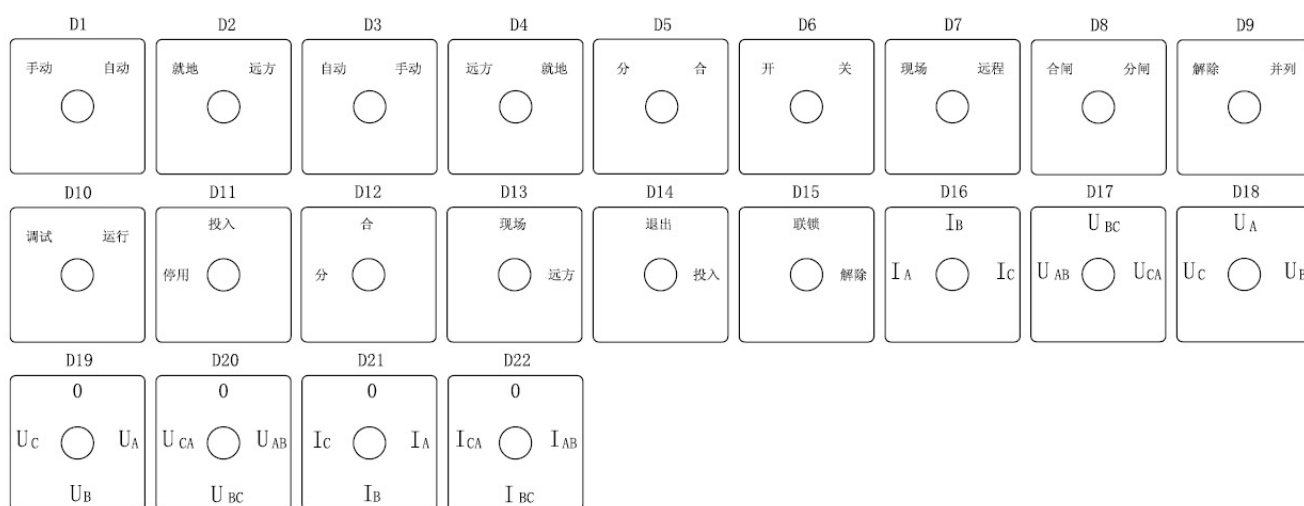
常用面板示例 Common panel examples

中英文面板 Chinese English panel

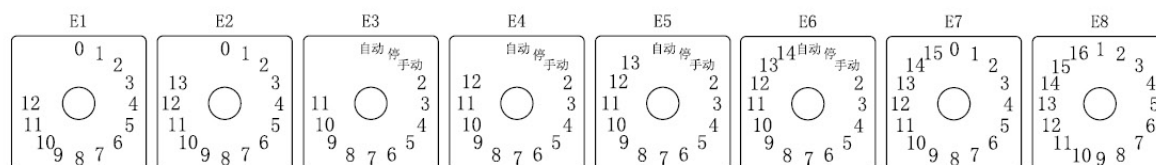
角度 Angle 60°



角度 Angle 90°



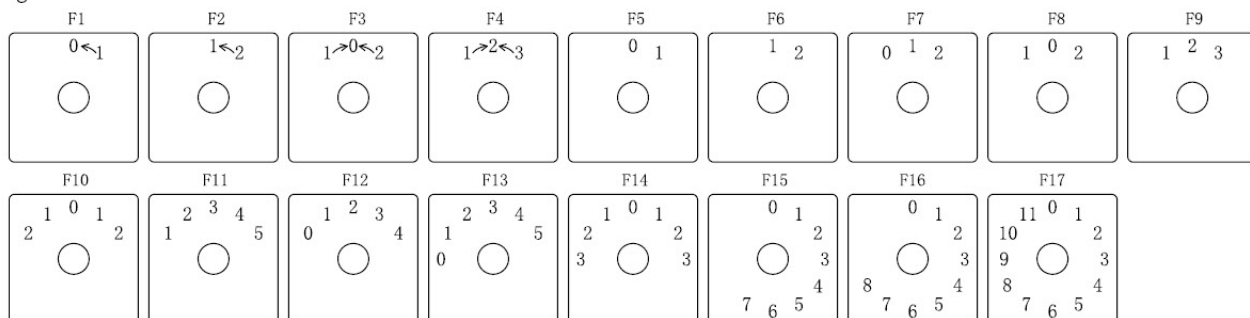
角度 Angle 22.5°



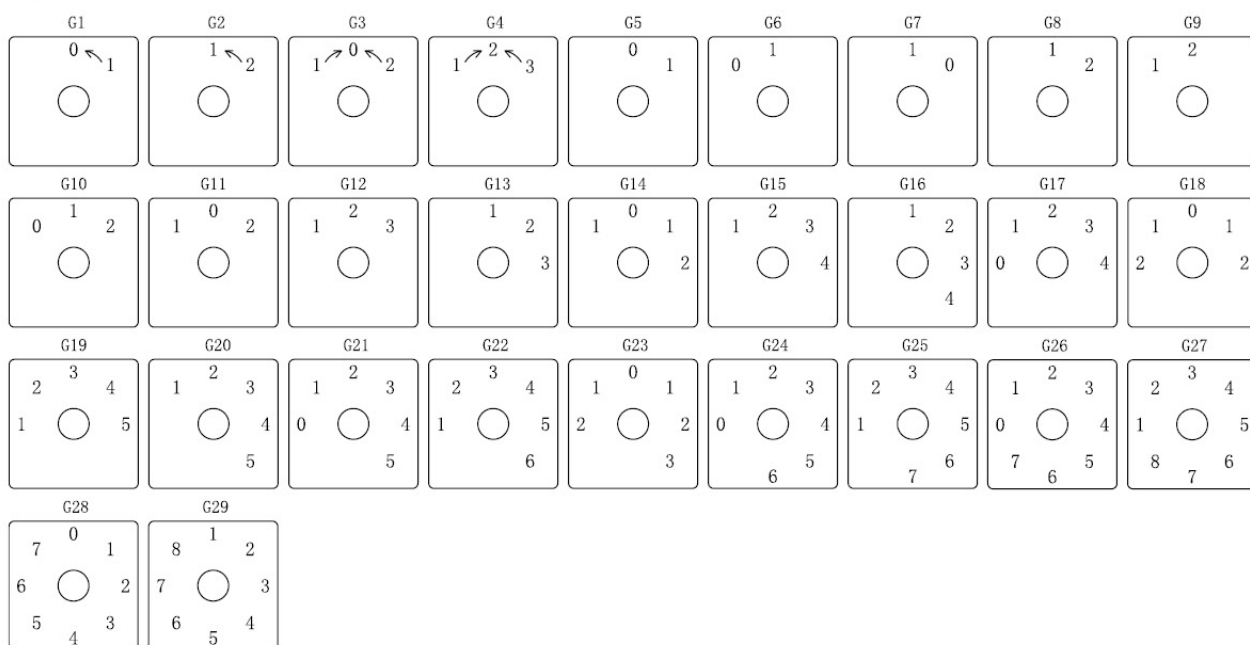
常用面板示例 Common panel examples

数字面板 Digital panel

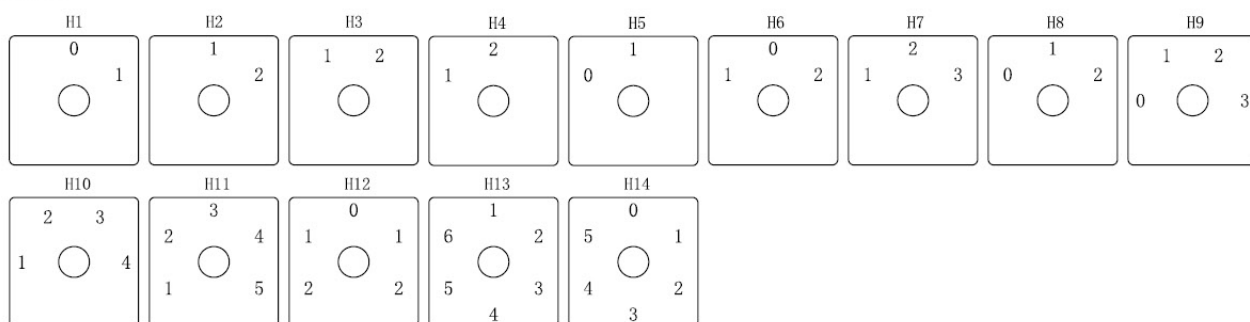
角度 Angle 30°



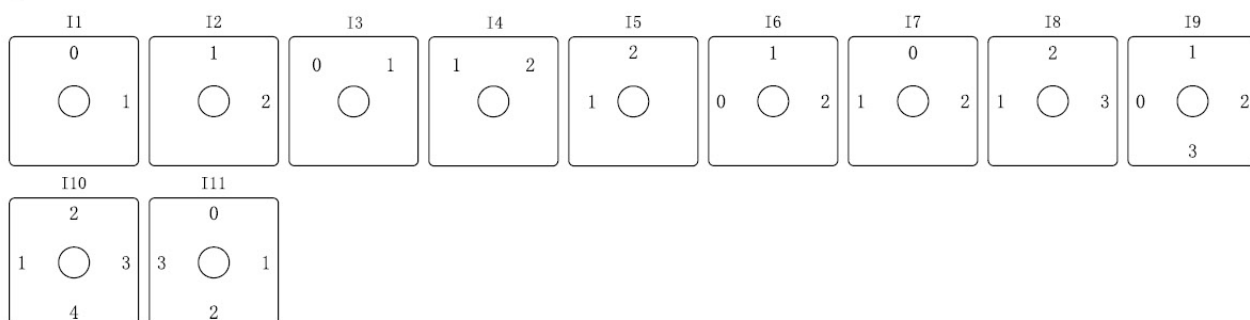
角度 Angle 45°



角度 Angle 60°



角度 Angle 90°



微小负载型的使用 Applications Under Minimal Load

开关接点可用于一般负载或微小负载。但是，已经连接过一般负载的接点，就不能用于连接更小容量的负载。否则，可能导致接触面的糙化，而且可能失去接触可靠性。

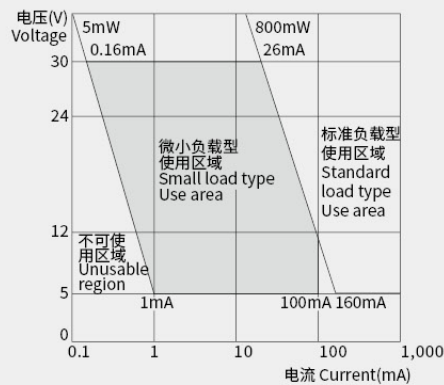
如果在开关微小负载电路时使用一般负载用开关，可能会引起接触不良。下图为开关负载区域范围定义。本目录册内产品适用于 DC24V 10mA 以上范围，当使用负载小于 DC24V 10mA 以下时，可能存在由于电流过小无法击破触点表面氧化膜或硫化膜的现象，从而导致开关接触不良。所以当使用负载小于 DC24V 10mA 以下时，请咨询昌得电气科技有限公司进行产品定制。

请设置 CR 电路等吸收电路，防止震荡和抖动所导致的噪声和脉冲缺失，对于开关时会产生冲击电流的负载，请插入接点保护电路，以免导致耐久性降低。

Switch contacts can be used for general loads or small loads. However, contacts that have already been connected to general loads cannot be used to connect smaller capacity loads. Otherwise, it may lead to roughness of the contact surface and loss of contact reliability.

If a general load switch is used when switching a small load circuit, poor contact may be caused. The following diagram shows the switching load area range definition. The products in this catalog are suitable for DC24V 10mA or above. When the load is less than DC24V 10mA or below, the oxidized film or vulcanized film on the contact surface may be unable to be broken due to too small current, resulting in poor switch contact. Therefore, when the load is less than DC24V 10mA, please consult CNTD Electrical Technology Co., Ltd. for product customization.

Please set the absorption circuit such as CR circuit to prevent noise and pulse loss caused by shock and jitter, for the load that will produce impulse current on the switch, please insert the contact protection circuit to avoid reducing durability.



使用注意事项 Using Precautions

我司产品专为工业控制（工控）场合设计与生产，严格遵循工控标准。我们明确声明，除非经过特殊设计并得到我司明确书面确认，我司产品不适用于以下应用场合：

- 要求极高可靠性的应用场合，包括燃气、电力等要求长期稳定运行的系统。
- 要求极高安全性的应用场合，包括铁路、电梯、医疗、安全等与人身安全与财产的情况。
- 苛刻条件、严酷环境的应用场合，包括室外、存在化学污染、电磁、振动或冲击影响的环境。
- 有火灾或爆炸风险的应用场合，包括存在易燃易爆性气体、强酸强碱化学品等物质的环境。
- 涉及军工用途、大型工程项目的应用场合。

Our company's products are specifically designed and produced for industrial control scenarios, strictly following industrial control standards. We expressly declare that, unless specially designed and explicitly confirmed in writing by our company, our products are not suitable for the following applications:

- Applications that require extremely high reliability, including gas, power, and other systems that require long-term stable operation.
- Applications that require extremely high safety, including railroads, elevators, medical, security, and other situations involving personal safety and property.
- Harsh conditions and severe environments, including outdoors, environments with chemical pollution, electromagnetic, vibration, or impact influences.
- Applications with a risk of fire or explosion, including environments with flammable and explosive gases, strong acids and alkalis, and other substances.
- Applications involving military use, large-scale engineering projects.

[illegible]