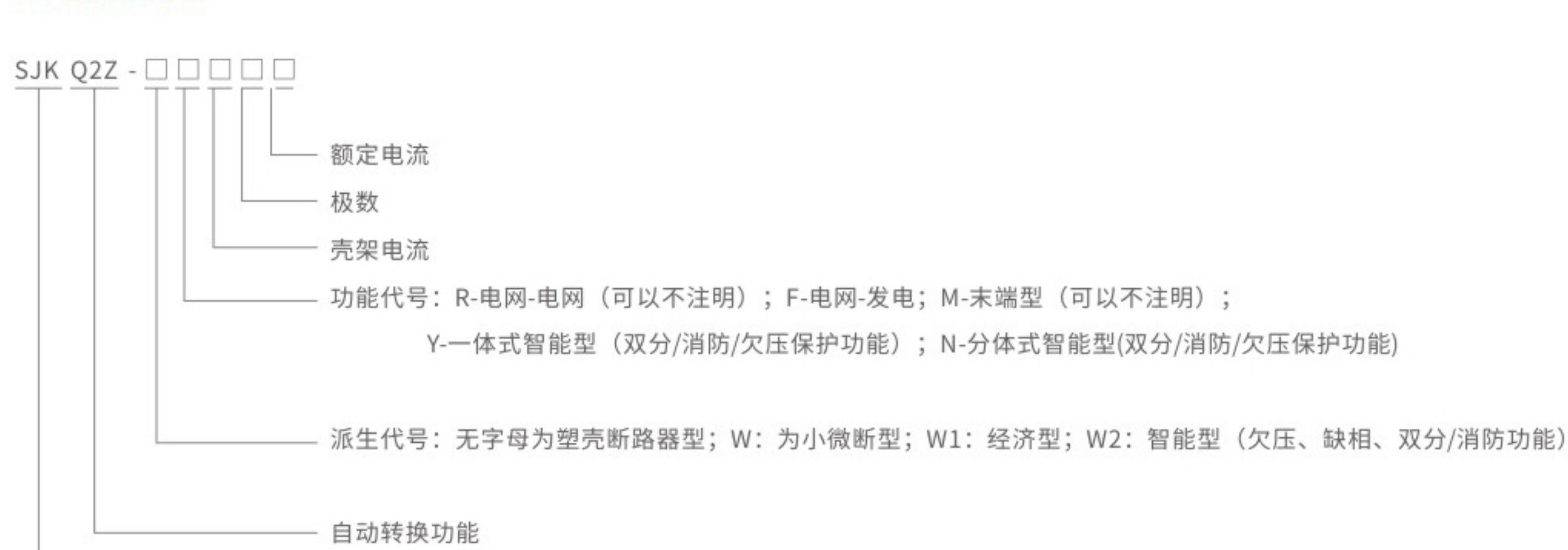


## Scope of application

The SJKQ2Z series intelligent automatic dual power transfer switch (hereinafter referred to as the switch) is suitable for AC 50Hz, rated working voltage 400V, and rated working current 16A~1600A. The switch used for the mutual conversion between the two commonly used power sources (N) and the backup power source (R) in emergency power supply systems (can also be set manually) and as a control circuit for control, signaling, interlocking, and other purposes. This product has a communication port in some models, which can achieve remote control and allow users to realize unmanned substations. Suitable for residential communities, military facilities, hospitals, shopping malls, airports, and other places

## 型号及含义



注: F-常规开关出厂时不带此功能,除客户特殊要求。

## Normal working conditions

The installation altitude shall not exceed 2000 meters  
The upper limit of the ambient temperature should not exceed +40 °C, the lower limit should not be lower than -5C, and the 24-hour average value should not exceed +35C  
The relative humidity of the atmosphere should not exceed 50% when the ambient air temperature is +40 °C. At lower temperatures, there may be higher temperatures, and it should be considered that humidity changes can cause condensation on the surface of the product

- Non explosive medium, and the medium does not contain gases and dust that can corrode or damage insulation
- Places without significant shaking or impact vibration

## Structure and Function

This intelligent conversion switch consists of two main parts: a microcomputer controller and a switch conversion device, which are connected by dedicated cables. The switch is composed of a microcomputer controller, a micro motor, a gear machine, a micro switch, an operation keyboard, an LCD display screen, a molded case circuit breaker, etc. Capable of automatic and manual operation; The dual interlocking of mechanical and electrical components maximizes the satisfaction of power supply and distribution needs. The switch has three operating positions for users to choose from: common power (N) on, double off, and backup power (R) on. The switch has the characteristics of small size, light weight, stable operation, and easy use

## Intelligent controller function

SJKQ2Z is a new type of intelligent automatic dual power conversion switch. The intelligent controller is input by keyboard and displayed on LCD, which can synchronously detect the common power supply (N) and the backup power supply (R) in three phases: for phase failure, voltage loss or undervoltage, when it is lower than 85% of the rated working voltage value, it is judged as undervoltage, and the backup power supply (R) fault alarm and double division. The microcomputer processes the detection results and issues corresponding instructions, and the processing results can be displayed on LCD, providing users with a good human-machine dialogue interface. The alarm can also be manually turned off. Regardless of the current working mode, if the microcomputer detects abnormal data, it will disconnect from the abnormal power supply and enter the dual protection state within 3 seconds. After a delay (0-30 seconds), it will switch to normal power supply. Example: In the self switching and self recovery mode, if the common power supply (N) fails, it will automatically switch to the backup power supply (R) for power supply. If the common power supply (N) returns to normal, it will automatically return. If both working power supplies fail, the microcomputer will issue a dual split command after 3 seconds, and the power supply that returns to normal will be given priority for operation

## LCD显示和控制器设置说明

NA、NB、NC表示常用三相电源(常用)指示, RA、RB、RC表示备用三相电源(备用)指示, 字母显示表示工作正常, 闪烁或消失表示异常; “报警”字样显示表示报警系统已打开, “报警”字样消失表示报警系统已关闭, 按减“⏏”键可消除报警。 “双分”显示表示已进入双分工作模式, 否则已退出双分模式。 SET设置键、移位“⏏”、“增”“⏏”、“减”“⏏”, 初始密码为8888。 内部参数厂家已预设好, 用户无需改动。 “03S”延时时间“FFF1”自复、“FFRD”不自复, “SF08”双分时间。 “N-P”闪烁为常用优先, “P-N”为备用优先。



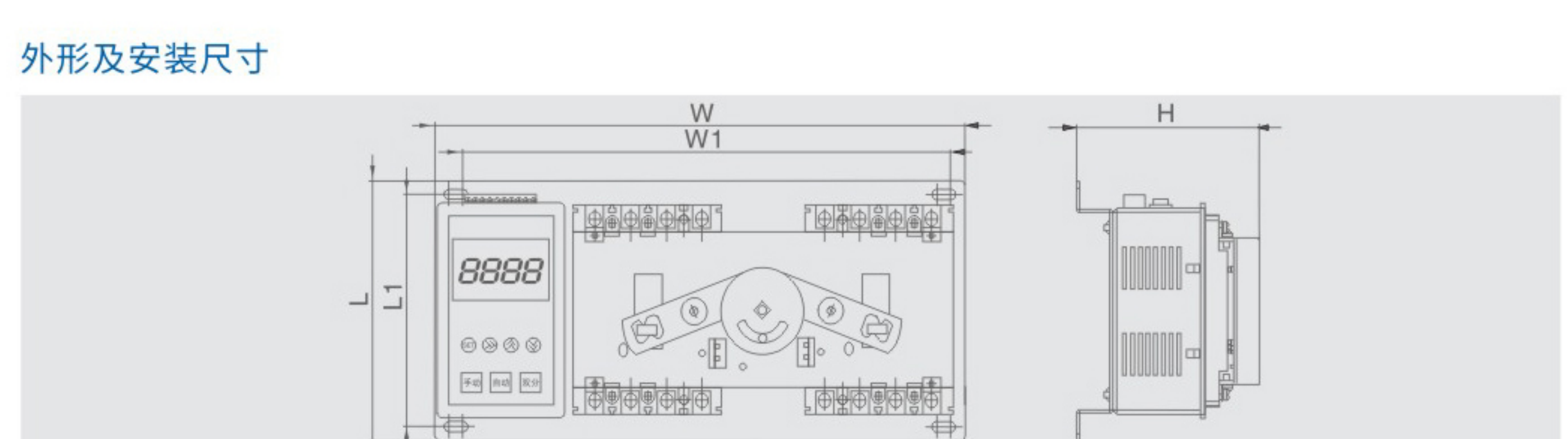
注: LCD显示自投自复简称(自复), 自投不自复简称(不自复), “SF01”不可改动。 顶部盖内线端子示意图

底部接线端子“1”至“10”分别为: “1”空脚, “2”至“5”为常用电源A、B、C、N输入端, “6”至“9”为备用电源A、B、C、N输入端, “10”空脚 “11”至“13”为电机控制线, “14”至“18”为空脚。 顶部盖内线端子“21”至“36”表示如下: “21”为常用电源零线(NN), “22”为备用电源零线(RN), 注: “21、22”在开关采用3极时, 零线输入使用, 开关采用4极时“21、22”端子不要零线输入。 “23、24”为常用电源指示输出到信号灯(220V)。 “25、26”为备用电源指示输出到信号灯(220V)。 “27、28”为常用开关闭合信号输出到信号灯(220V), “29、30”为备用开关闭合信号输出到信号灯(220V)。 “31、32”为开关双分状态信号输出到信号灯(220V), “32、34”消防信号输入端AC或DC6-24V无源, “35、36”发电信号触点(5A)。“检修运行”为拨动开关: 按钮在检修侧, 控制器不能正常运行双电源操作机构不能由控制器控制, 只能用手柄来操作。

## 设置程序说明

步骤	按键	显示数据	操作	功能
1	SET	CodE	进入设定状态	密码设定
2	>>	OodE	用(⏏)键设定第_位密码数据	密码设定
3	>>	80dE	用(⏏)键设定第二位密码数据	密码设定
4	>>	880E	用(⏏)键设定第三位密码数据	密码设定
5	>>	8888	用(⏏)键设定第四位密码数据	密码设定8888
6	>>	dddd/N-R 03s	密码正确显示常用-备用转换时间	常用-备用转换时间
			用(⏏)键设定N-R第一位时间长短	
7	>>	N-R 03s	显示常用-备用转换时间	常用-备用转换时间
			用(⏏)键设定N-R第二位时间长短	
8	>>	R-N 03s	显示备用-常用转换时间	备用-常用转换时间
			用(⏏)键设定R-N第一位时间长短	
9	>>	R-N 03s	显示备用-常用转换时间	备用-常用转换时间
			用(⏏)键设定R-N第二位时间长短	
10	>>	SF 08s	显示双分转换时间	双分转换时间
			用键设定SF第一位时间长短	
			显示双分转换时间	
11	>>	SF 08s	用(⏏)键设定SF第二位时间长短	双分转换时间
12	>>	FFF 1	用(⏏)键设定自复为1,不自复为0	自复, 不自复
13	>>	FD 0	用(⏏)键设定全自动发电为0,半自动为1	启动发电机
14	>>	FC 0	用(⏏)键设定常用优先为0,备用优先为1	优先级设定
15	>>	H 130	用(⏏)键设定过压值设定(220V*130%)	过压值设定
16	>>	L 50	用(⏏)键设定欠压值设定(220V*50%)	欠压值设定
17	>>	NA 220V	用(⏏)键校正常用电A相电压值	显示实际电压
18	>>	NB 220V	用(⏏)键校正常用电B相电压值	显示实际电压
19	>>	NC 220V	用(⏏)键校正常用电C相电压值	显示实际电压
20	>>	RA 220V	用(⏏)键校正备用电A相电压值	显示实际电压
21	>>	RB 220V	用(⏏)键校正备用电B相电压值	显示实际电压
22	>>	RC 220V	用(⏏)键校正备用电C相电压值	显示实际电压
23	>>	SAVE		保存数据

## 外形及安装尺寸



## 外形及安装尺寸

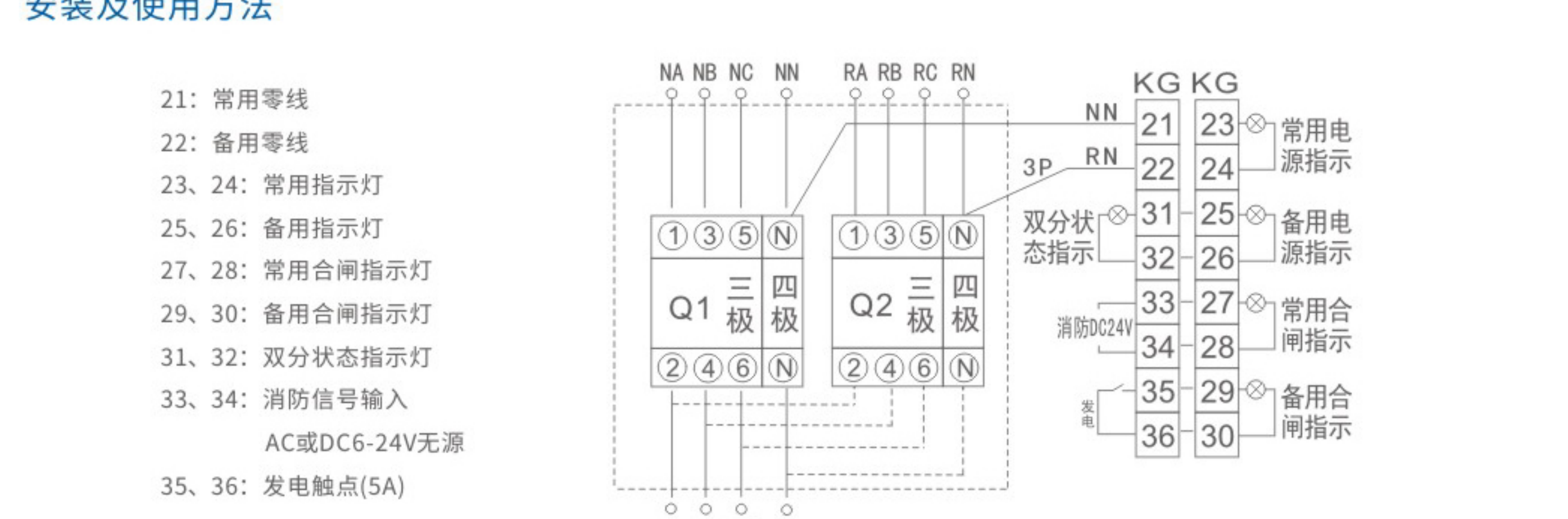
规格	尺寸	W	W1	L	L1	H
SJKQ2Z-100/3P		390	355	220	200	120
SJKQ2Z-100/4P		420	385	220	200	120
SJKQ2Z-225/3P		430	395	220	205	140
SJKQ2Z-225/4P		465	435	220	205	140
SJKQ2Z-400/3P		560	510	310	285	190
SJKQ2Z-400/4P		605	555	310	285	190
SJKQ2Z-630/3P		625	570	320	295	195
SJKQ2Z-630/4P		690	635	320	295	195
SJKQ2Z-800/3P		705	655	340	315	190
SJKQ2Z-800/4P		780	730	340	315	190
SJKQ2Z-1250/3P		730	675	480	365	280
SJKQ2Z-1250/4P		800	745	480	365	280

## 主要技术参数

产品型号	断路器型号	框架电流A	额定工作电流A
SJKQ2Z-100/3	SJKM1系列	100	10/16/20/25/32/40/50/63/80/100
SJKQ2Z-100/4			
SJKQ2Z-225/3		225	100/125/140/160/180/200/225
SJKQ2Z-225/4			
SJKQ2Z-400/3		400	250/315/350/400
SJKQ2Z-400/4			
SJKQ2Z-630/3		630	400/500/630
SJKQ2Z-630/4			
SJKQ2Z-800/3		800	630/700/800
SJKQ2Z-800/4			
SJKQ2Z-1250/3	1250	800/1000/1250	
SJKQ2Z-1250/4			

开断电流kA	参见具体型号断路器说明书
额定工作电压V	400V
绝缘电压V	2500—分钟内无闪烁无击穿
频率Hz	50-60HZ
延时时间	0-30秒可调
控制额定工作电压V	AC230V
机械寿命	5000次

## 安装及使用方法



Note: The above diagram is for user reference only. The comprehensive functional wiring diagram may vary depending on the model and interlocking. When a fire occurs, the EPS fire signal is activated (provided by the fire center), causing the Q1 and Q2 circuit breakers to trip or be in a disconnected state (KG) wiring terminal

(Q1, Q2) Circuit breakers  
(Built in) power generation and unloading contacts  
The dotted line is provided by the user

## 接线示例; 接线端子(KG)



注: 三极断路器(3P), 四极断路器(4P), DC24V(外置)消防中心提供