

SIWOQ 系列自动转换开关电器



沈阳斯沃电器

SHENYANG SIWO ELECTRICAL E

有 限 公 司

QUIPMENT CO., LTD.

斯沃电器
忠告用户
安全第一

SIWO GIVES ADVICE
TO ALL USERS
SAFETY IS FIRST.

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产品概述

Product General

SIWOQ系列自动与电动转换开关电器，是集开关与逻辑控制于一体，无需外加控制器，真正实现机电一体化的自动转换开关电器。具有电压检测、频率检测、通讯接口、电气与机械互锁等功能，可实现自动、电动远程、紧急手动控制。

操作是由逻辑控制板以各种逻辑命令来管理电机、变速箱的操作运行来实现，电机带动开关弹簧蓄能，瞬时释放的加速机构，快速接通分断电路或进行电路转换，通过明显可见状态实现安全隔离，极大的提高了电气性能与机械性能。

100A以下开关整体设计为金属外壳，小巧坚固。100A以上开关，控制部分为金属外壳，采用自动与电动两种控制型式，开关部分采用不饱和聚酯玻璃纤维增强模塑料制造外壳，有较强的介电性能，防护能力和可靠的操作安全性。

开关适用于供电系统的主电源与备用电源的自动转换或两台负载设备的自动转换及安全隔离等。

开关造型美观、新颖、简洁、体积小、功能全，是同类产品的理想选择。

SIWOQ系列产品已获得3C认证证书。



Product General

SIWOQ series automatic and electric transfer switching equipment integrates switch and logic control. Thus, it's not necessary to use controller. The ATSE truly achieves mechanical and electrical integration. It has the functions of voltage detection, frequency detection, communication interface, electrical and mechanical interlocking, etc. which can realize automatic, electric remote, emergency manual control.

Operation is carried out through the logic control board which gives various logic commands to control the motor and gear-box. The motor drives the accelerating mechanism of spring stored energy and instantaneous release to quickly make and break circuit or changeover circuit. Realize safe isolation through visible conditions. All of which greatly increase the electrical and mechanical properties.

Entirety design of the switch below 100A is metal enclosure which is small and compact. Control part of the switch over 100A is metal enclosure and it adopts two control modes of automatic and electric. Switch part adopts DMC enclosure, which have high dielectric property, protective capability as well as operating safety.

The switch is used for automatic transfer between main power supply and emergency power supply or automatic transfer and safety isolation of two load equipments.

The switch is beautiful, novel, simple, small size and has complete functions. It's the best choice among the similar products. SIWOQ series product has acquired China Compulsory Certificate.

SIWOQ系列产品符合以下标准

SIWOQ series product conforms to the following standards

- 国际标准 IEC 60947-1 《低压开关设备和控制设备第一部分：总则》

IEC 60947-3 《低压开关设备和控制设备 开关、隔离器、隔离开关及熔断器组合电器》

IEC 60947-6-1 《低压开关设备和控制设备 多功能开关自动转换开关电器》

- 国家标准 GB 14048.1 《低压开关设备和控制设备 总则》

GB 14048.3 《低压开关设备和控制设备 开关、隔离器、隔离开关及熔断器组合电器》

GB/T 14048.11 《低压开关设备和控制设备 第6-1部分：多功能电器 转换开关电器》

- 使用环境与用途

使用环境 SIWOQ自动转换开关电器在下列条件下能可靠工作

海拔高度不超过2000米；

环境温度不高于+40℃，不低于-5℃；

温度为+40℃时，相对湿度不超过50%；

对于变化偶尔产生的凝露应采取特殊措施；

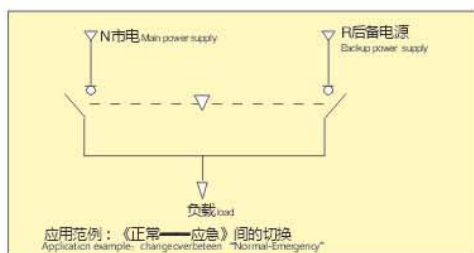
无爆炸危险介质环境；

无雨雪侵袭环境；

污染等级为3级。

用途 交流50赫兹，额定电压380V，额定电流16A至3150A。用于不频繁接通与分断电路。

- 产品如需特殊要求，请与公司联系。



- International Standard

IEC 60947-1 Low-voltage switchgear and controlgear Part one: General rules

IEC 60947-3 Low-voltage switchgear and controlgear, switches, disconnectors, switch-disconnectors and fuse-combination units

IEC 60947-6-1 Low voltage switchgear and controlgear Multiple function switch Automatic transfer switching equipment

- National Standard

GB 14048.1 Low-voltage switchgear and controlgear Part one: General rules

GB 14048.3 Low-voltage switchgear and controlgear switches, disconnectors, switch-disconnectors and fuse-combination units

GB/T 14048.11 Low-voltage switchgear and controlgear Part 6-1: Multiple function equipment-Automatic transfer switching equipment

- Operation Environment and Usage

Operation Environment

SIWOQ automatic transfer switching equipment can work reliably under the following conditions:

Height above sea level does not exceed 2,000m;

Ambient temperature is not higher than +40℃ and not lower than -5℃;

Relative humidity does not exceed 50% when temperature is +40℃;

Some special measures should be adopted on the condensation caused by change in temperature;

No explosive dangerous medium environment;

No rain and snow attack environment;

Pollution degree is 3.

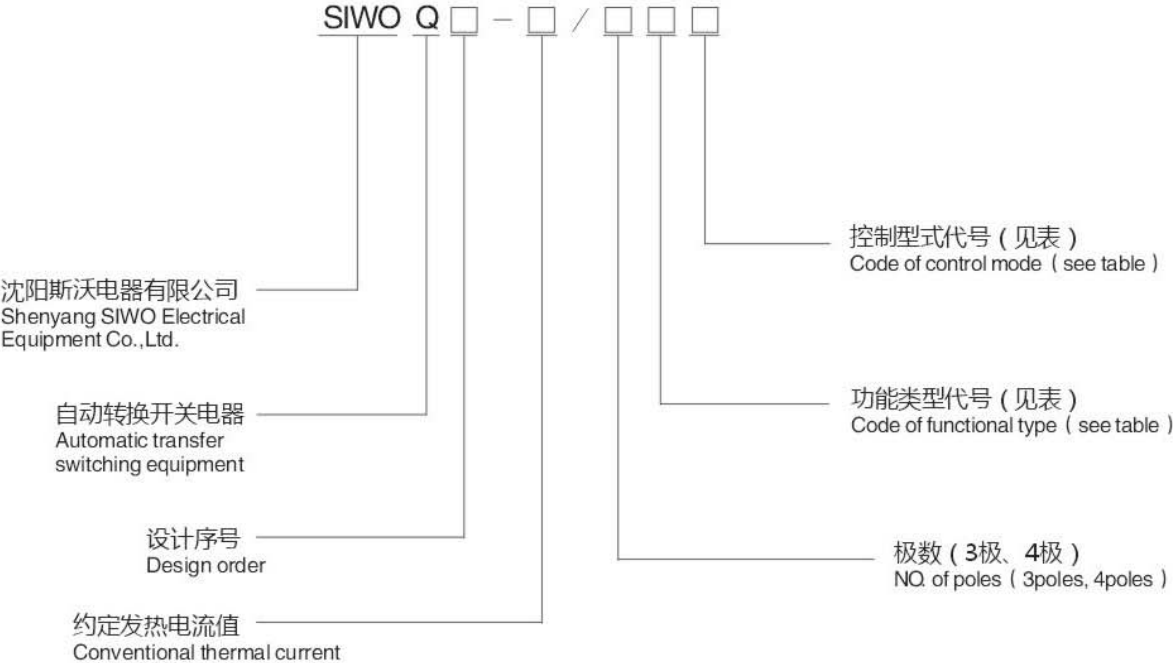
Usage

AC 50Hz, rated voltage 380V, rated current from 16A to 3150A. The switch is used for infrequently making and breaking circuit.

- If customer has any special requirement for products, please contact with the company.

SIWOQ系列产品型号说明

Model description of SIWOQ series product



注：设计序号

- Q1.约定发热电流值 (A) : 100
Q2.约定发热电流值 (A) : 63
Q3 (GLD). 约定发热电流值 (A) : 160、250、400、630、
1000、1250、1600、2500、3150

选型举例：

SIWOQ1-100/4S1 ~ 380V Ie 63A
SIWOQ1自动转换开关电器，约定发热电流值100A，交流额定
工作电压380V，额定电流63A，4极，S1型，市电-市电系统自投
自复。

Note：Design order

- Q1.Conventional thermal current (A) : 100
Q2.Conventional thermal current (A) : 63
Q3(GLD). Conventional thermal current (A) : 160, 250, 400, 630,
1000, 1250, 1600, 2500, 3150

Example of model selection:

SIWOQ1-100/4S1 ~ 380V Ie 63A
SIWOQ1 automatic transfer switching equipment, conventional thermal
current value is 100A, AC rated operational voltage is 380V, rated current is
63A, 4poles, S1 mode, main power supply-automatic transfer and automatic
recovery of AC power system.

产品功能对照表
Product functional table

产品型号 Product model	功能类型 Functional type	控制型式 Control mode	扩展功能介绍 Extended function introductions	电动转换产品 Electric transfer product
SIWOQ1-100/3(4)	R、S	1、2、3 4、5	可配装RS232 Rs485通讯接口 RS232 or RS485 communication interface can be used	无 None
SIWOQ2-63/3(4)				DZ1
SIWOQ3(GLD)-160/3(4)				
SIWOQ3(GLD)-250/3(4)				
SIWOQ3(GLD)-400-630/3(4)				
SIWOQ3(GLD)-1000-1600/3(4)	S	3、6		
SIWOQ3(GLD)-2500-3150/3(4)				

SIWOQ系列产品控制型式

Control mode of SIWOQ series product

控制功能 Control function	R1	R2	S1	S2	S3	S4	S5	S6
自投自复 Automatic transfer and automatic recovery	√		√	√			√	
自投不自复 Automatic transfer and no automatic recovery		√			√	√		√
消防置零 Set zero position for fire protection	√	√	√	√	√	√	√	√
缺相检测 Phase lack detection	√	√	√	√	√	√	√	√
相位角检测 Phase angle detection	√	√	√	√	√	√	√	√
失压检测 Lost voltage detection	√	√	√	√	√	√	√	√
参数设定、修改 Parameter set and amended			√	√	√	√	√	√
过、欠电压检测 Overvoltage and undervoltage detection				√		√	√	
自检功能 Self-detection funct			√	√	√	√	√	√
存储记忆 Storage memory			√	√	√	√	√	√
故障报警 Fault alarm			√	√	√	√	√	√
工作状态显示 Working condition display	√	√	√	√	√	√	√	√
数码显示 Digital display			√	√	√	√	√	√
频率检测 Frequency detection			√	√	√	√	√	√
油机启动 Oil generator start							√	√
通讯RS232\RS485 Communication RS232\RS485	选配 Selected matching							

自投自复：当常用电源被监测到出现偏差时，ATSE自动将负载从常用电源切换到备用电源；当常用电源恢复正常，无论备用电源如何，ATSE将自动转换到常用电源。可自行选择两路电源中的任意一路为常用电源。

Automatic transfer and automatic recovery: ATSE automatically transfer load from normal power supply to emergency power supply when deviation is monitored in normal power supply. When normal power supply recovers, ATSE will automatically transfer to normal power supply no matter how emergency power supply is. It can freely select one power supply as the normal power supply.

自投不自复：当常用电源被监测到出现偏差时，ATSE自动将负载从常用电源切换到备用电源。备用电源正常供电时，即使常用电源恢复正常，ATSE也不会自动转换到常用电源；当备用电源被监测到出现偏差时，常用电源正常供电，ATSE自动将负载从备用电源自动切换到常用电源。

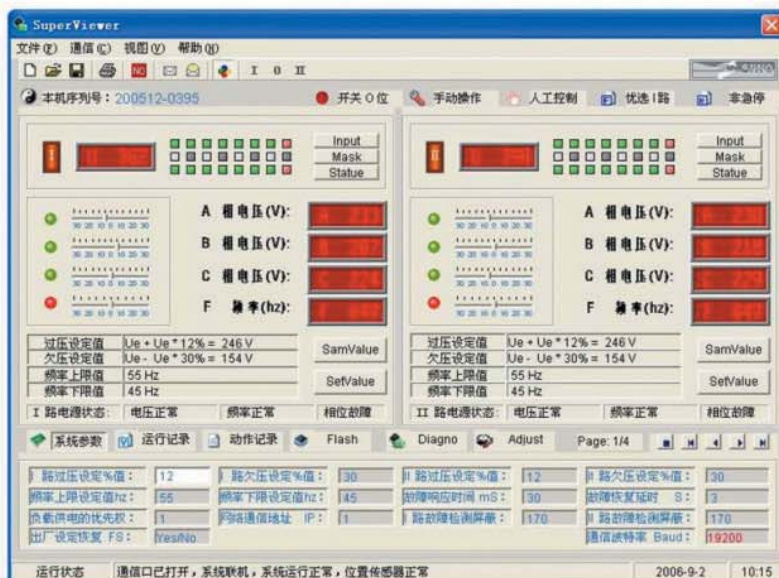
Automatic transfer and no automatic recovery: ATSE automatically transfer load from normal power supply to emergency power supply when deviation is monitored in normal power supply. When emergency power supply normally works, even though normal power supply recovers, ATSE can not automatically transfer to normal power supply. When emergency power supply occurs deviation and normal power supply normally works, ATSE will automatically transfer load from emergency power supply to normal power supply.

SIWOQ系列产品介绍

SIWOQ series product introduction

- 开关具有三极、四极（三极+可通断中性极）产品。
- 分为16A、20A、25A、32A、40A、50A、63A、80A、100A、125A、160A、200A、250A、315A、400A、500A、630A、1000A、1250A、1600A、2000A、2500A、3150A,23个电流等级。
- 产品具有可视化、数字化、网络化的功能特点。
- 设计序号2为超薄型，厚度137mm。
- 可远程消防置零，紧急情况下可强制置零（同时切断两路电源）。
- 具有自动、电动和手动三种操作方式选择。具有明显通断位置指示、挂锁等功能。
- 使用斯沃专用控制软件。

- The switch has 3 poles or 4 poles (3 poles+on and off neutral pole) product.
- They are divided into 23 current ratings of 16A, 20A, 25A, 32A, 40A, 50A, 63A, 80A, 100A, 125A, 160A, 200A, 250A, 315A, 400A, 500A, 630A, 1000A, 1250A, 1600A, 2000A, 2500A, 3150A.
- The product has features of visualization, digit and networking.
- Design order 2 is slim type; main body thickness is 137mm.
- Remotely set zero position for fire protection; compulsorily transfer to zero position under emergency condition (cut off two power supplies at the same time).
- It has selections for three operation modes of automatic, electric and manual. It has functions of obvious indication for making and breaking positions and padlock, etc.
- Use SIWO special controlling software.



SIWOQ系列产品功能介绍

Product function of SIWOQ series product

- 1、LED显示：可显示相电压、线电压、频率等参数。
- 2、操作按键：可对本机电压、频率、参数查询，转换时间、过欠电压等参数进行设置、修改。
- 3、工作状态指示：模拟现场电路，显示主电源与备用电源状态与所在运行位置。
- 4、工作状态切换锁：锁压下为手动操作，锁抬起后为自动操作。
- 5、开关合闸指示：I为常用电源合闸；O为同时断开两路电源；II为备用电源合闸。
- 6、零位锁定：当开关在O位置时，开关可通过手柄锁对开关进行锁定，防止误操作。
- 7-8、SIWOQ2接线端子：采用压线式接线方式，减少了开关外部电缆裸露部分，防止意外触电事故。

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开关侧面配有二次接线端子与通讯接口，可提供远程操作、消防置零、信号传输、网络连接等功能。

- 1.LED display: can display the parameters of phase voltage, line voltage, frequency.
- 2.Operation Key: make queries to voltage, frequency, parameter of the switch, and the parameters of transfer time, over voltage, under voltage, etc can be set and amended.
- 3.Working status display: simulate field circuit, display the status and running position of the power supply in main circuit.
- 4.Working status switch lock: the switch is in manual operation when press the lock, the switch is in automatic operation when set free the lock.
- 5.Switch closed indication: I indicates normal power supply was closed, O shows two power supplies are opened, II indicates emergency power supply was closed.
- 6.Zero position lock: switch can be locked in O position to avoid wrong operation.
- 7-8.Terminals of SIWOQ2: adopt pressure-wiring method which decreases exposed part of external cable of the switch to avoid electric shock accident.

On the side of switch has secondary wiring terminal and communication interface which can provide the functions of remote operation, zero position for fire protection, signal transmission, network connection, etc.



SIWOQ系列产品特点

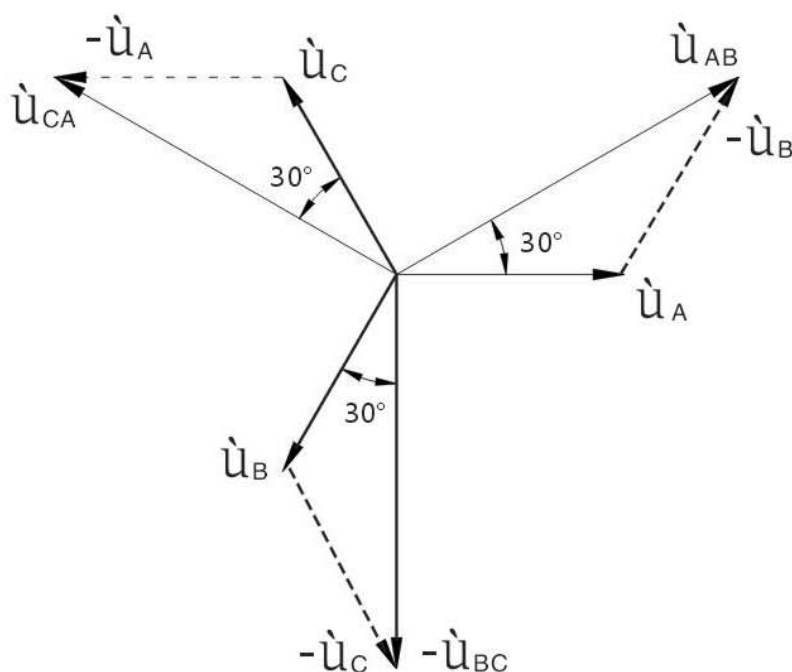
Characteristics of SIWOQ series product

1、相位角检测技术

三相负荷平衡是安全供电的基础。三相负荷不平衡，轻则降低线路和配电变压器的供电效率，重则会因重负荷相超载过多，可能造成某相导线烧断、开关烧坏甚至配电变压器单相烧毁等严重后果。SIWOQ系列自动转换开关控制器内部采用相位角检测技术，当配电线路中出现严重三相不平衡现象，相电压绝对差值大于120V时，开关将自动切换至备用电源（优质电源）。从而保证了配电线路、负载设备的安全使用。

1. Phase Angle Detection Technology

Balance in three-phase load is the foundation of safety in power supply. Unbalance in three-phase load ranges from decreasing power supply efficiency of line and distribution transformer to blowing the wire of one phase, burning out the switch and even single-phase of distribution transformer, etc caused by overloading in phase with heavy load. SIWOQ series ATSE controller adopts phase angle detection technology, switch automatically transfers to emergency power supply (high quality power supply) when three-phase unbalance occurs in distribution line. Thus, it ensures safety use of distribution line and load equipment.



SIWOQ系列产品特点

Characteristics of SIWOQ series product

2、自检功能

SIWOQ系列自动转换开关具有自检功能，可对电源、电压、相位、频率、动作进行详细检查，方便客户定期对自动转换开关进行检测。

3、故障报警

当SIWOQ所在配电线路中，主电源或备用电源出现N线接错、断电、过压、欠压、缺相、相位不正常、频率超高等故障时，SIWOQ将通过LED显示故障代码进行报警，提醒用户主（备）电源出现故障，防止由于电源质量问题出现的事故。

4、存储记忆功能

SIWOQ系列自动转换开关具有存储记忆功能，当控制系统检测到故障情况后，该信息将自动记录到内存芯片中，便于查询故障信息及原因。

5、控制部分

SIWOQ系列产品是自主研发的控制系统，采用军品品质的电源模块，SMT的制造工艺，保证了电子材料焊接的可靠性。控制系统所有的检测电路中全部采用光电或磁电原理进行了强、弱电隔离。控制器对两路电源的电压、频率和相位都进行了实时监测。采用隔离电流信号驱动系统控制机构。电流信号驱动与电压信号驱动相比有更强的抗干扰能力，并且隔离技术提高了系统的安全性。在国内率先通过GB14048.11中规定的EMC试验。电快速脉冲中达到5kV/5kHz，远超出GB14048.11标准中规定的2kV/5kHz的技术要求。

6、主体内部灭弧栅片

SIWOQ系列自动转换开关内部，主体部分加装了灭弧栅片，极大的提高了ATSE的接通分断能力。

2. Self-detection Function

SIWOQ series automatic transfer switch has self-detection function which can make a detailed detection for power supply, voltage, phase, frequency, action. It is convenience for customer to test ATSE at regular intervals.

3. Fault Alarm

ATSE will give alarming for the main (emergency) power supply failure to remind customer in order to avoiding accident caused by the problem of power supply quality when main or emergency power supply occurs power failure, overvoltage, undervoltage, phase-lacking, phase abnormal, high frequency, etc in distribution line of ATSE.

4. Memory Storage Function

SIWOQ series automatic transfer switch has memory storage function, the fault information will be automatically recorded in memory chips after fault is detected by control system, and it is easy to inquire fault information and reason.

5. Control Part

Control part of SIWOQ series product is researched and developed by our company, it adopts power module of military goods quality, SMT manufacturing process which ensure the reliability of electronic material welding. All detected circuits of control system are heavy electric, light electric insulated in the use of photoelectric or magnetic electricity theory. Control device give a real-time monitoring to voltage, frequency and phase of two power supplies. It uses signal driving system for insulation current to control the mechanism. Compared with voltage signal driving, current signal driving has more anti-interference ability and the insulation technology improves the safety of the system. It is the first that passed EMC test set by GB14048.11 in China. The electric fast pulse achieves 5kV/5kHz which is better than the technical requirement 2Kv/5kHz in GB14048.11 standard.

6. Arc Extinguish Gate of Switch Body

For the internal part of the SIWOQ series automatic transfer switch, body part use arc extinguish gate which greatly improve the making and breaking capacity of ATSE.

SIWOQ系列产品特点

Characteristics of SIWOQ series product

7、一体化专用压力信号传输模板

SIWOQ系列自动转换开关内部，其信号传输采用一体化专用压力信号传输模板，增强了ATSE的电气绝缘等级，提高了自动转换开关的信号传输抗干扰能力。同时也取代了传统的微动开关作为传输信号的时代。保证了ATSE的可靠性。

8、传动机构

开关采用两齿轮传动机构，其齿轮材料采用改性尼龙，在完成10万次的寿命试验后，整个齿轮完好无损，同时具有吸音减噪的特点。更进一步提高了ATSE传动系统的可靠性。

9、组网功能

SIWOQ系列产品采用自主研发的SuperViewer软件系统，可实现网络化管理，通过上位机可对配电回路中的多台自动转换开关进行实时监测、参数的设定修改，完全实现智能化管理。

7. Special Integration load Signal Transmission Template
Signal transmission inside SIWOQ series automatic transfer switch adopts special integration load signal transmission template which enhance electric insulation grade of ATSE, improve capacity of resisting disturbance for signal transmission of automatic transfer switch. And it also replace the times when traditional microswitch were used as signal transmission.

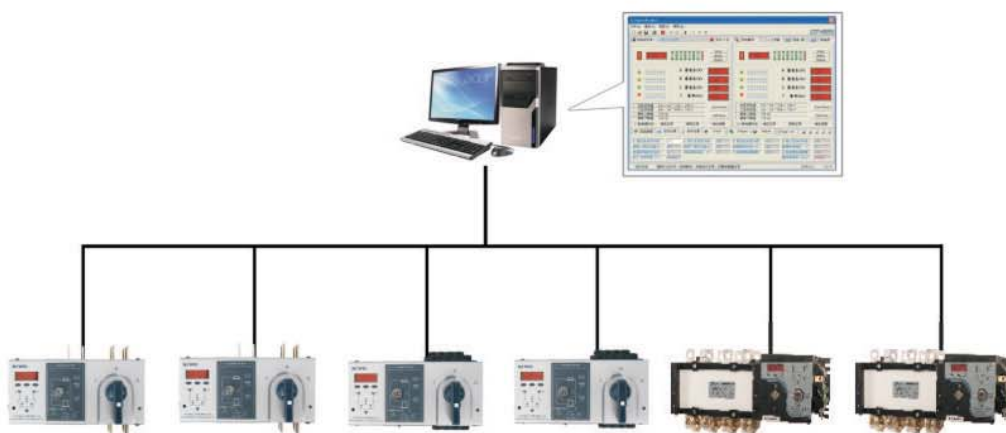
8. Transmission Mechanism

The switch adopts two-gear transmission mechanism, the material of gear uses modified nylon, the whole gear is well after complete 100,000 times cycle life test, and it also has the characteristic of sound-absorbing and noise reduction. It further enhances the reliability of ATSE transmission

9. Network Function

Our company adopts SuperViewer software that can achieve network management, it can give a real-time monitoring as well as parameter setting and amended to many automatic transfer switches in distribution circuit via upper machine, which completely achieves intelligent management.

SIWOQ系列产品网络示意图



SIWOQ系列产品电气性能与机械性能

Electrical properties and mechanical properties of SIWOQ series product

约定发热电流		100A(Q1)										160~3150 (Q3、DZ1)														
Ith(A)	Conventional thermal current Ith(A)	63A(Q2)										160A			250A		400A		630A		1000A	1250A	1600A	2500A		3150A
额定电流 In(A)	Rated current In(A)	16	20	25	32	40	50	63	80	100	100	125	160	200	250	315	400	500	630	1000	1250	1600	2000	2500	3150	
额定绝缘电压 Ui(V)	Rated insulation voltage Ui(V)	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	
介电强度(V)	Dielectric strength (V)																									
额定冲击耐受电压 Uimp (kV)	Rated impulse withstand voltage Uimp(Kv)	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
额定工作电流 Ie(A)	Rated operational current Ie(A)																									
380V AC31 B																				1000	1250	1600	2000	2500	3150	
AC33 B		16	20	25	32	40	50	63	80	100	100	125	160	200	250											
AC33 iB																315	400	500	630							
过载能力	Overload capacity																									
额定短时耐受电流Icw (kA Rms)/1s	Rated short-time withstand current (KA Rms)/1s	5	5	5	5	5	5	5	5	5	10	10	10	10	10	12.6	12.6	12.6	12.6	32	32	32	50	50	50(Iq)	
接通分断能力	Making and breaking capacity																									
额定分断能力 (A Rms) 380V	Rated breaking capacity (A Rms) 380V	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1250	1600	2000	2500	1800	2400	3000	3780	1500	1875	2400	3000	3750	4725	
额定接通能力 (A Rms) 380V	Rated making capacity (A Rms) 380V	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1250	1600	2000	2500	1800	2400	3000	3780	1500	1875	2400	3000	3750	4725	
额定短路接通能力 Icm (KA 峰值)	Rated short-time making capacity Icm(Ka peak value)	8	8	8	8	8	8	8	8	8	17	17	17	17	17	26	26	26	26	67.2	67.2	67.2	105	105		
操作性能	Operation properties																									
机械寿命 (循环操作次数)	Mechanical durability (number of cyclic operation)	4500	4500	4500	4500	4500	4500	4500	4500	4500	5000	5000	5000	5000	5000	3000	3000	2000	2500	2500	2500	2500	1500	1500	1500	
电气寿命 (循环操作次数)	Electrical durability (number of cyclic operation)	1500	1500	1500	1500	1500	1500	1500	1500	1500	1000	1000	1000	1000	1000	1000	1000	1000	1000	500	500	500	500	500	500	
重量 (kg) 3极	Weight(kg) 3 poles	4.8	4.8	4.8	4.8	4.8	4.8	4.8	5.0	5.0	7.2	7.2	7.2	8	8	10	10	10	10	22	22	34	74.8	74.8	82.2	
4极	4 poles	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.2	5.2	7.5	7.5	7.5	9	9	11	11	11	11	28	28	40	101.2	101.2	128.7	

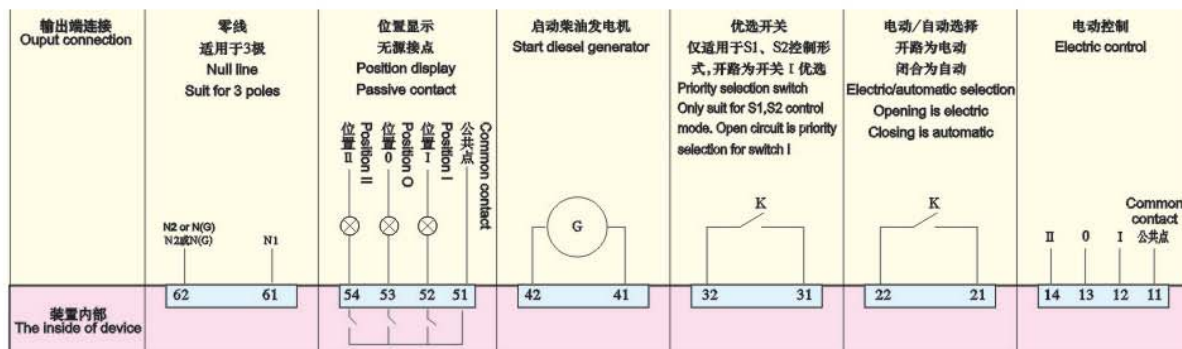
注：开关禁止竖直安装

Note: Switch is forbidden to install vertically.

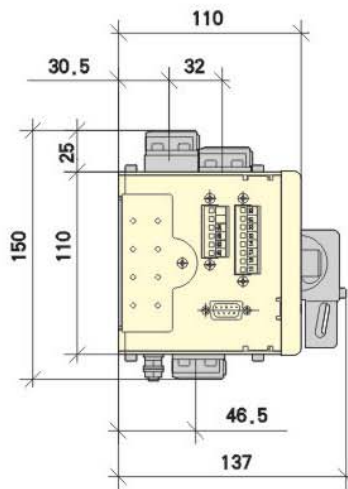
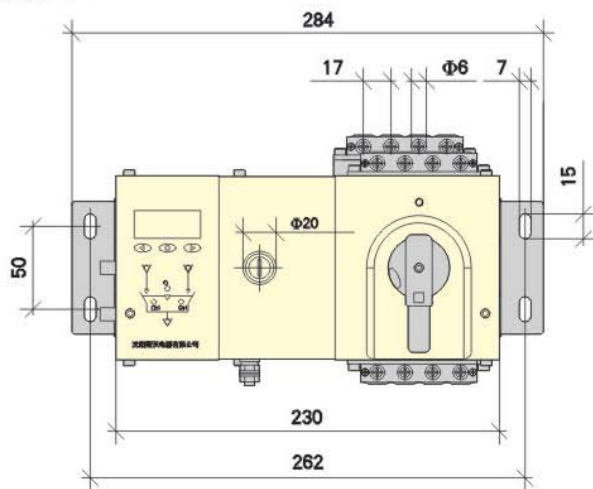
SIWOQ1-100和SIWOQ2-63接插端子图与外形安装尺寸

Terminal diagram, outline and installation dimension of SIWOQ1-100 and SIWOQ2-63 automatic and electric transfer switching equipment

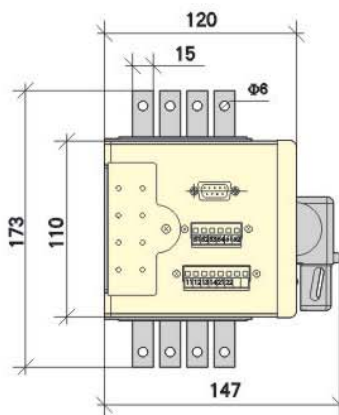
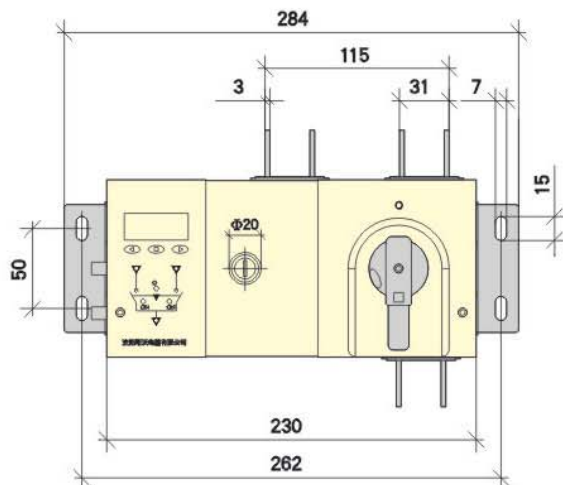
接插端子图 Terminal diagram



外形安装尺寸 Outline and installation dimension



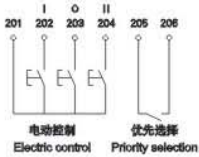
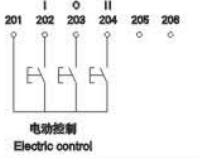
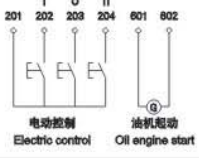
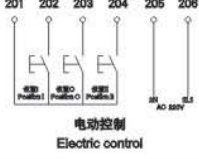
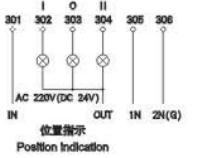
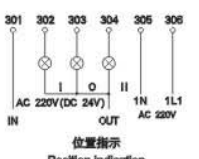
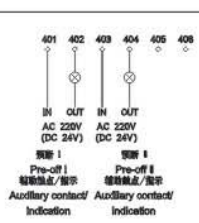
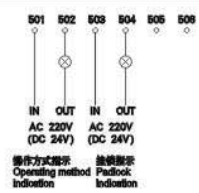
SIWOQ2-63



SIWOQ1-100

SIWOQ3(GLD)-160 ~ 3150自动与电动转换开关电器接插端子图

Terminal diagram of SIWOQ3(GLD)-160 ~ 3150 automatic and electric transfer switching equipment

 电动控制 Electric control 优先选择 Priority selection	功能类型控制型式为R1、S1、S2型开关的控制电路接线端子。 Wiring terminals for control circuit of functional type and control mode R1, S1, S2 type switch.
 电动控制 Electric control	功能类型控制型式为R2、S3、S4型开关的控制电路接线端子。 Wiring terminals for control circuit of functional type and control mode R2, S3, S4 type switch.
 电动控制 Electric control 油机启动 Oil engine start	功能类型控制型式为S5、S6型开关的控制电路接线端子。 Wiring terminals for control circuit of functional type and control mode S5, S6 type switch.
 电动控制 Electric control AC 220V	仅适用于电动转换开关，205、206接入AC220V电源。 It is only suitable for electric transfer switch, and 205, 206 are connected to AC 220V power supply.
 位置指示 Position Indication AC 220V (DC 24V)	位置显示、零线端子。零线适用于3极。 Position display, null line terminals. Null line is suitable for 3 poles.
 位置指示 Position Indication AC 220V (DC 24V)	仅适用于电动转换开关，305、306接入AC220V电源。 It is only suitable for electric transfer switch, and 305, 306 are connected to AC 220V power supply.
 预断 I Pre-off I 辅助触点/指示 Auxiliary contact/Indication 预断 II Pre-off II 辅助触点/指示 Auxiliary contact/Indication	预断辅助触点/指示接线端子。适用于自动与电动转换开关。 Prebreak auxiliary contacts/indication wiring terminals. It is suitable for automatic and electric transfer switch.
 操作方式指示 Operating method Indication 挂锁指示 Padlock Indication	手动/自动、挂锁指示接线端子。适用于自动与电动转换开关。 Wiring terminals for manual/automatic, padlock indication. It is suitable for automatic and electric transfer switch.

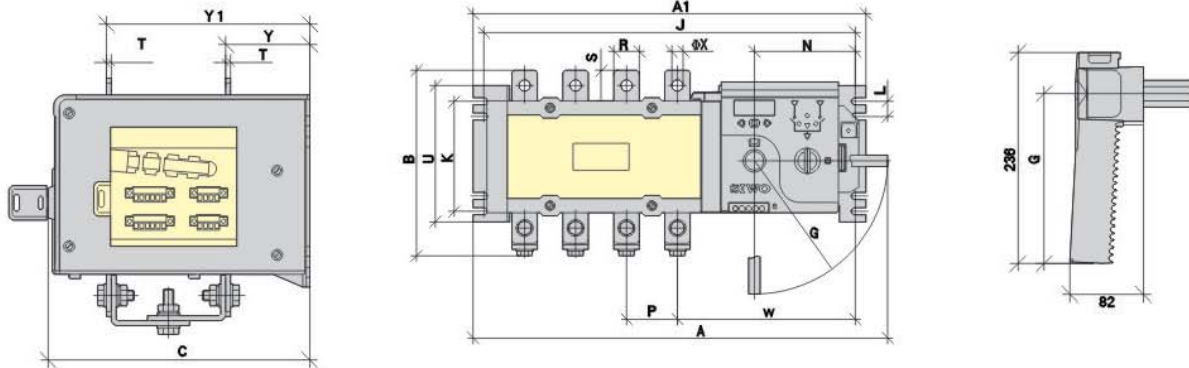
SIWOQ3(GLD)-160 ~ 630自动与电动转换开关电器外形与安装尺寸

Outline and installation dimension of SIWOQ3(GLD)-160 ~ 630 automatic and electric transfer switching equipment



SIWOQ3(GLD)-160 ~ 630自动与电动转换开关电器实物图

Pictures of SIWOQ3(GLD)-160 ~ 630 automatic and electric transfer switching equipment



SIWOQ3(GLD)-160 ~ 630自动与电动转换开关电器

SIWOQ3(GLD)-160 ~ 630 automatic and electric transfer switching equipment

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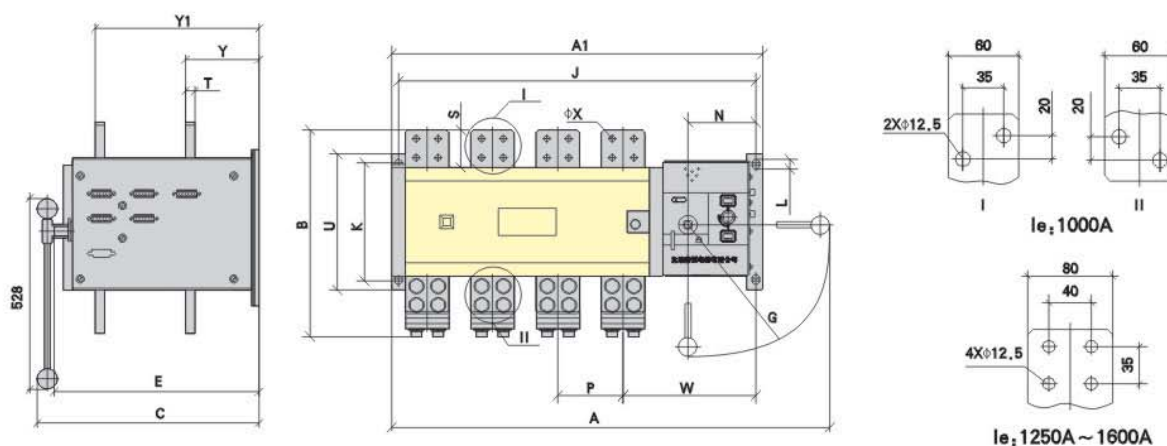
规格 Specification	A	A1	B	C	G	J	K	L	N	P	R	S	T	U	W	ΦX	Y	Y1
SIWOQ3(GLD)-160/3(100,125A,160A)	377	288	151	205	191	268	78/108	15	99	36	20	25	3.5	134	163	9	56	141
SIWOQ3(GLD)-160/4(100,125A,160A)	407	318	151	205	191	298	78/108	15	99	36	20	25	3.5	134	157	9	56	141
SIWOQ3(GLD)-250/3(200A,250A)	417	329	184	205	191	308	78/108	15	99	50	25	30	3.5	134	176	11	60	145
SIWOQ3(GLD)-250/4(200A,250A)	467	379	184	205	191	358	78/108	15	99	50	25	30	3.5	134	165	11	60	145
SIWOQ3(GLD)-400/3(315A,400A)	453	385	258	265	191	365	180		112	65	32	40	5	208	197	11	83	193
SIWOQ3(GLD)-400/4(315A,400A)	513	445	258	265	191	424	180		112	65	32	40	5	208	192	11	83	193
SIWOQ3(GLD)-630/3(500A,630A)	453	385	279	265	191	365	180		112	65	40	50	6	208	197	12	84	194
SIWOQ3(GLD)-630/4(500A,630A)	513	445	279	265	191	424	180		112	65	40	50	6	208	192	12	84	194

SIWOQ3(GLD)-1000 ~ 1600自动与电动转换开关电器外形与安装尺寸 Outline and installation dimension of SIWOQ3(GLD)-1000 ~ 1600 automatic and electric transfer switching equipment



SIWOQ3(GLD)-1000 ~ 1600自动与电动转换开关电器实物图
Pictures of SIWOQ3(GLD)-1000 ~ 1600 automatic and electric transfer switching equipment

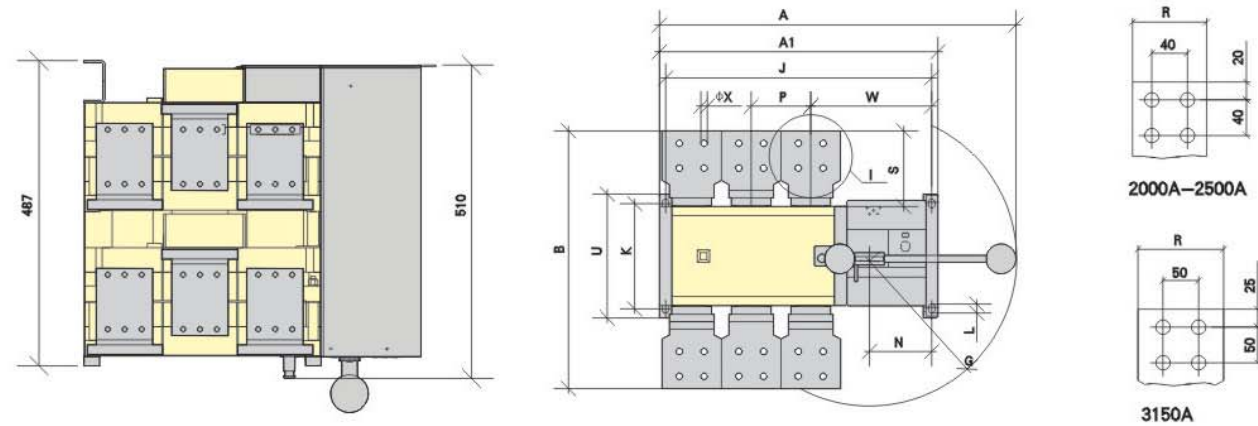
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SIWOQ3(GLD)-1000 ~ 1600自动与电动转换开关电器
SIWOQ3(GLD)-1000 ~ 1600 automatic and electric transfer switching equipment

规格 Specification	A	A1	B	C	E	G	J	K	L	N	P	R	S	T	U	W	ΦX	Y	Y1
SIWOQ3(GLD)-1000/3	889	562	342	385	320	470	537	212	18	126	120	60	56	8	250	236	12.5	107	252
SIWOQ3(GLD)-1000/4	1003	677	342	385	320	470	651	212	18	126	120	60	56	8	250	229	12.5	107	252
SIWOQ3(GLD)-1250/3	889	562	373	385	320	470	537	212	18	126	120	80	69	8	250	236	12.5	107	252
SIWOQ3(GLD)-1250/4	1003	677	373	385	320	470	651	212	18	126	120	80	69	8	250	229	12.5	107	252
SIWOQ3(GLD)-1600/3	889	562	373	385	320	470	537	212	18	126	120	80	69	8	250	236	12.5	107	252
SIWOQ3(GLD)-1600/4	1003	677	373	385	320	470	651	212	18	126	120	80	69	8	250	229	12.5	107	252

SIWOQ3(GLD)-2000 ~ 3150自动与电动转换开关电器外形与安装尺寸 Outline and installation dimension of SIWOQ3(GLD)-2000 ~ 3150 automatic and electric transfer switching equipment



规格 Specification	A	A1	B	C	E	G	J	K	L	N	P	R	S	T	U	W	ΦX	Y	Y1
SIWOQ3(GLD)-2500/3(2000A, 2500A)	889	562	465	560	501	470	537	212	18	126	120	80	127	10	250	236	13	68	457
SIWOQ3(GLD)-2500/4(2000A, 2500A)	1003	677	465	560	501	470	651	212	18	126	120	80	127	10	250	229	13	68	457
SIWOQ3(GLD)-3150/3(3150A)	889	562	520	560	501	470	537	212	18	126	120	120	152	15	250	236	13	63	462
SIWOQ3(GLD)-3150/4(3150A)	1003	677	520	560	501	470	651	212	18	126	120	120	152	15	250	229	13	63	462

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2013

NO.1

北京 北京市海淀区交大东路66号院钻河公馆1号楼2601室
邮编：100081
电话：010-65676457/58/59
传真：010-65667739

上海 上海市杨浦区大连路1288弄6号1701室
邮编：200092
电话：021-65146181/82
传真：021-65146206

沈阳 沈阳市皇姑区昆山中路147号1门
邮编：110036
电话：024-86413321
传真：024-86413323

成都 成都市一环路东五段108号东恒国际2幢1区1204
邮编：610016
电话：028-84400192
传真：028-84400191

广州 广州市白云区广州大道北怡新花园怡花阁B5 403室
邮编：510620
电话：020-85260155
传真：020-85518946

武汉 武汉市武昌区中北路24号龙源国际广场A栋B座9-02、03号
邮编：430000
电话：027-51877111/222
传真：027-51877133

西安 西安市含光南路216号嘉翔国际商贸大厦19层B座
邮编：710065
电话：029-88219963
传真：029-88255260

沈阳斯沃电器有限公司

SHENYANG SIWO ELECTRICAL EQUIPMENT CO., LTD.

[Http://www.siwo.com.cn](http://www.siwo.com.cn)

First Room, No.147, Kunshan Middle Rd., Huanggu Distr., Shenyang City,
Liaoning Prov., China 110036

商务总部：中国辽宁省沈阳市皇姑区昆山中路147号1门 110036

TEL：0086-24-86413321/3322

FAX：0086-24-86413323

Industrial Park: No.22, Puyu Road, Dadong District, Shenyang City, Liaoning Province,
CHINA 110122

工业园区：中国辽宁省沈阳市大东区蒲裕路22号 110122

TEL：0086-24-89711222

FAX：0086-24-89707116/8190