

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.

SIWOG (GL) 系列隔离开关



SIWOG (GL)

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产品概述

Product General

SIWOG1(GL)系列隔离开关(以下简称开关)是我公司自主研发而成。是国内同类产品中理想的更新换代产品。

开关广泛适用于建筑、电力、石油化工及其它行业的配电系统和自动化系统。

模块化设计结构，具有灵活多样的组合性，采用不饱和和聚脂玻璃纤维增强模塑料(DMC)，制造外壳，有很高的介电性能，防护能力和可靠的操作安全性。

操作机构是弹簧蓄能、瞬时释放的加速机构，瞬时接通与分断双断点触头结构。与操作手柄的速度无关，极大提高了各项电气性能与机械性能。

多种结构与操作方式，有直接观察触头通断状态的窗口，有柜内、柜外操作，有正面、侧面操作，有板后接线。

开关造型美观、新颖、简洁、体积小、功能全，是同类产品中理想的选择。

SIWOG1(GL)系列产品已获得3C认证证书。

Product General

SIWOG1(GL) series switch-disconnector (hereinafter called switch for short) is self-research and self-develop product of our company. It's the ideal replacement among the similar product in domestic market. The switch is widely used in distribution and automatic system of architecture, electrical power, petrochemical and other fields.

Modularized design structure has flexible and diverse combination. DMC enclosure has high dielectric property, protective capability and operating safety.

The operating mechanism is an accelerating mechanism of spring stored energy and instantaneous release which instantaneously make and break double-breakpoint contact structure. It has no relationship with the speed for operating the handle. Thus, greatly increase all electrical and mechanical properties.

Various structures and operation modes, it has a window for directly observing making and breaking conditions of the contact. It can be used for internal operation, external operation, front operation, side operation and back wire.

The switch is beautiful, novel, simple, small size and has complete functions. It's the best choice among the similar products.

SIWOG1(GL) series product has acquired China Compulsory Certificate.

产品特点

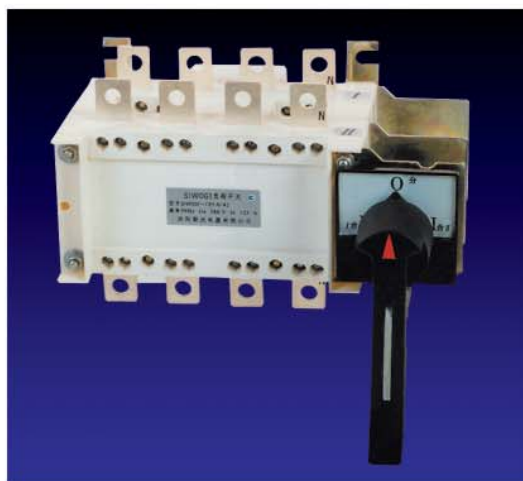
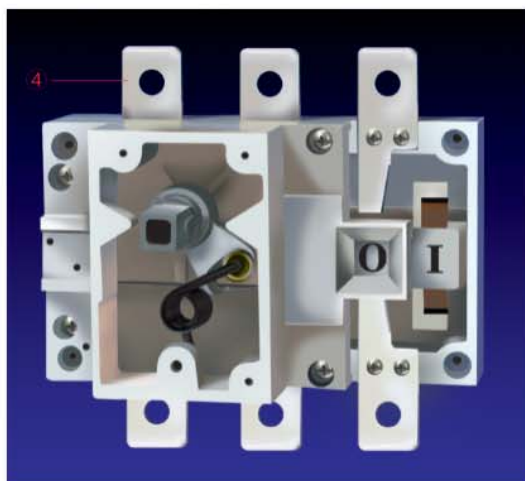
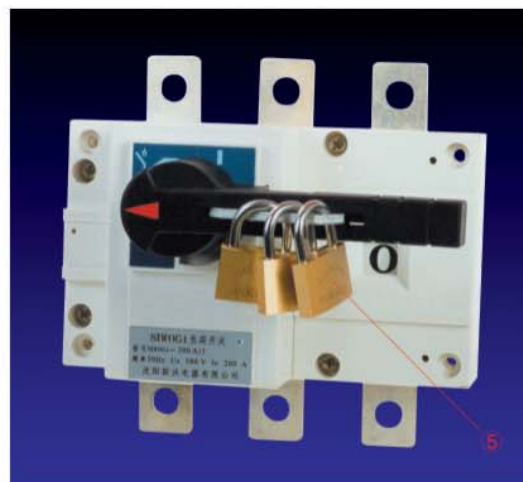
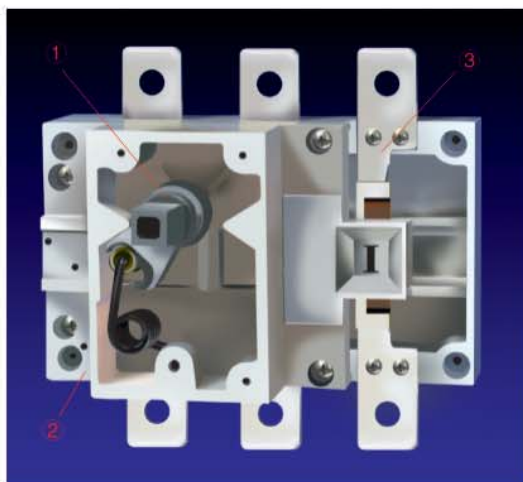
Product features

1. 弹簧蓄能瞬时释放的加速机构实现了快速接通或分断 (13.8米/秒), 与操作手柄速度无关, 极大提高了熄灭电弧能力。
2. 由不饱和聚脂玻璃纤维增强模塑料(DMC), 制造的外壳具有良好的阻燃性能、介电性能、抗碳化性和抗冲击性。
3. 先进的横拉式分合技术, 独特的并列双断点双桥式压簧片触头结构。
4. 所有触头材料是铜镀银合金, 具有两个分离触头面。
5. 在“0”位时, 可同时用三把锁锁住手柄, 可靠避免误操作。

Product features

1. Accelerating mechanism of spring stored energy and instantaneous release realizes quick making and breaking (13.8m/s). It has no relationship with the speed for operating the handle. Thus, greatly increase the capability of extinguishing electric arc.
2. The DMC enclosure has excellent flame retardant property, dielectric property, carbonation resistance capability, impact resistance capability.
3. Advanced making and breaking technique of horizontal design, special contact structure of parallel double-breakpoint and bridge type pressed spring leaf.
4. The material of all contacts is copper alloy plated with silver; it has two separate contact surfaces.
5. Handle can be locked by three locks at the same time in “0” position, which reliably avoid wrong operation.

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SIWOG1(GL)系列隔离开关符合下列标准

SIWOG1(GL) series switch-disconnector conforms to the following standards

- 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》

- 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》

- 使用环境与用途

使用环境 SIWOG1(GL)系列隔离开关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%；

对由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, 690V两种，额定电流至4000A。用于不频繁接通与分断电路。

690V产品用于电气隔离。

- 产品如需特殊要求, 请与公司联系。

- 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

- 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

- Operation Environment and Usage

Operation Environment SIWOG1(GL) series switch-disconnector 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;

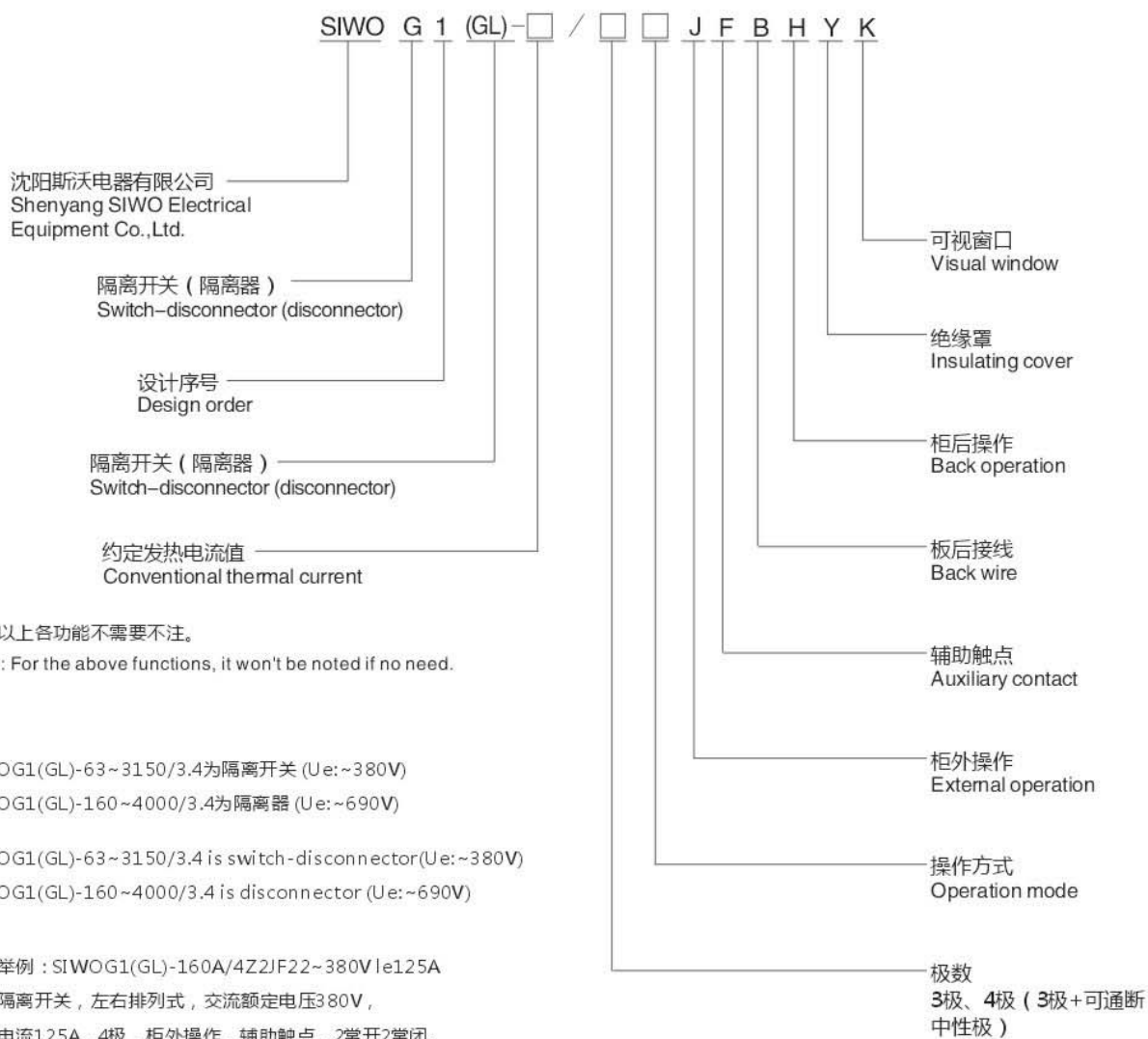
Pollution degree is 3.

Usage AC 50Hz, rated voltage are 380V and 690V, rated current up to 4000A. The switch-disconnector is used for infrequently making and breaking circuit. 690V products are used for electric isolation.

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

SIWOG1(GL) 系列隔离开关型号说明

Model description of SIWOG1(GL) series switch-disconnector



操作方式 Operation mode	结构形式 Structure type	电流等级 Current rating
侧面操作 Side operation	正面侧位操作 Front lateral operation	SIWOG1(GL)-100~3150/C1
	侧面操作 Side operation	SIWOG1(GL)-63~630/C2
转换操作 Changeover operation	前后排列式 Front to back type	SIWOG1(GL)-100~3150/Z1
	左右排列式 Left to right type	SIWOG1(GL)-100~3150/Z2
电动操作 Electric operation	控制部分与主体部分 Control part and main part	SIWOG1(GL)-160~3150/DC1

SIWOG1(GL)–63~4000电气性能与机械性能

SIWOG1(GL)–63~4000 electrical properties and mechanical properties

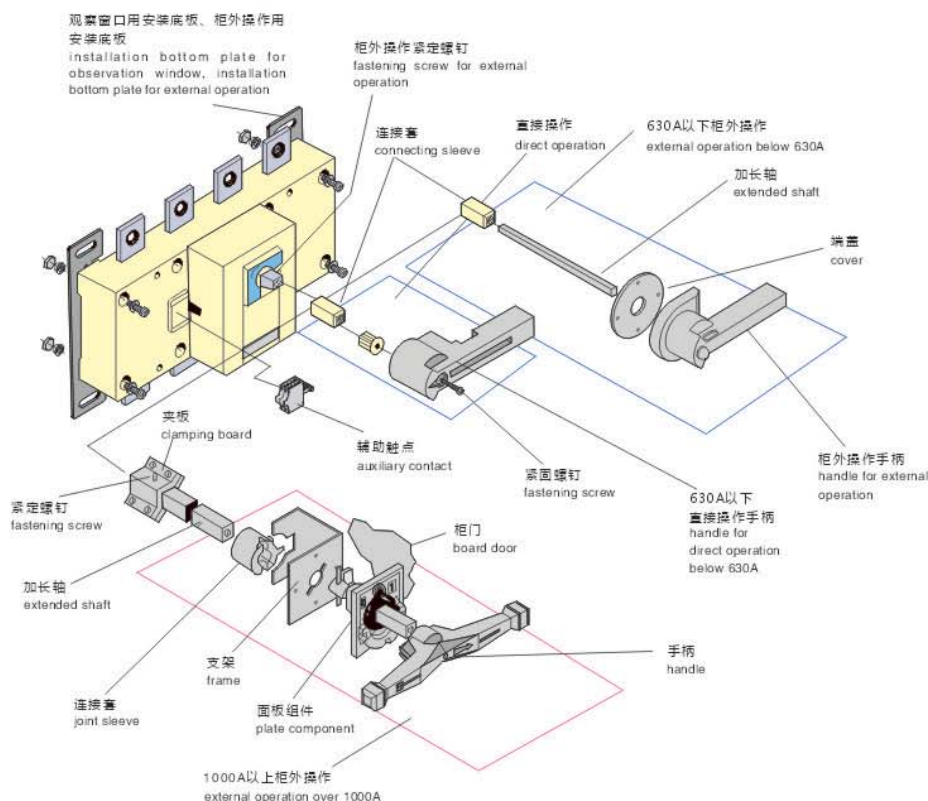
约定发热电流I _{th} (A) Conventional thermal current I _{th} (A)	63		100		160		250		400		630		1000	1250	1600	2500	3150	4000	
额定电流 I _e (A) Rated current I _e (A)	40	63	80	100	125	160	200	250	315	400	500	630	1000	1250	1600	2000	2500	3150	4000
额定绝缘电压 U _i (V) Rated insulation voltage U _i (V)	750	750	750	750	750	750	750	750	750	750	750	750	750	750	750	750	750	750	750
介电强度 (V) Dielectric strength (V)																			
额定冲击耐受电压U _{imp} kV Rated impulse withstand voltage U _{imp} kV	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I _e (A) Rated operational current I _e (A)																			
380V AC22B AC23A AC23B 690V AC20A AC20B	40	63	80	100									1000	1250	1600	2000	2500	3150	
					125	160	200	250	315	400	500	630							
					125	160	200	250	315	400	500	630	1000	1250	1600	2000	2500	3150	4000
过载能力 Overload capacity																			
额定短时耐受电流I _{cw} (kA)0.1s/1.0s Rated short-time withstand current I _{cw} (kA)0.1s/1.0s	10/6		10/6		20/10		30/15		45/20		50/25		70/35	90/50	90/50	90/50	90/50	150/70	
接通与分断能力(A Rms) Making and breaking capacity(A Rms)																			
额定分断能力 380V Rated breaking capacity 380V	320	504	640	800	1000	1280	1600	2000	2520	3200	4000	5040	3000	3750	4800	6000	7500	9450	
额定接通能力 380V Rated making capacity 380V	400	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	3000	3750	4800	6000	7500	9450	
额定短路接通能力I _{cm} (KA 峰值) Rated short-circuit making capacity I _{cm} (KA peak value)	9.18	9.18	9.18	9.18	20	20	30	30	40	40	52.5	52.5	73.5	105	105	105	105	105	
操作性能 Operation properties																			
机械寿命 380V Mechanical durability 380V	8500	8500	8500	8500	1400	1400	1400	1400	1400	800	800	800	500	500	500	500	500	300	
电气寿命 380V Electrical durability 380V	1500	1500	1500	1500	200	200	200	200	200	200	200	200	100	100	100	100	100	100	
机械寿命 690V Mechanical durability 690V					8000	8000	8000	8000	8000	5000	5000	5000	3000	3000	3000	3000	2000	2000	400
重量(kg) 3极 Weight(kg) 3 poles	0.37	0.37	0.37	0.37	1	1	2	2	3.5	3.5	4	4	10.5	10.5	16	25.5	25.5	31	90
4极 4poles	0.41	0.41	0.41	0.41	1.5	1.5	2.5	2.5	4	4	4.5	4.5	13	13	20	37.5	37.5	51.5	120

SIWOG1(GL)-63 ~ 3150 隔离开关 SIWOG1(GL)-63 ~ 3150 switch-disconnector

- SIWOG1(GL) 隔离开关从 63 ~ 3150 分 11 个规格是模块化设计结构，具有三极、四极(三极+可通断中性极)，适用于电路的接通与分断或电气隔离。
- 正面设有标记窗口指示触头通断状态。
- 根据需要可提供后面观察窗口，直接观察触头通断状态。
- 操作方式
直接操作：手柄直接安装于开关本体。
柜外操作：手柄安装在配电柜柜门外。
- 可配装辅助触点。
- 可配装电缆绝缘罩。

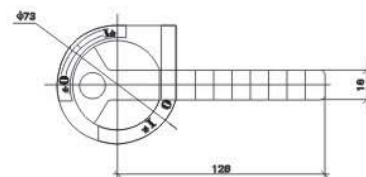
- SIWOG1(GL) switch-disconnector has 11 current ratings from 63 to 3150 are modularized design. It has three poles, four poles (three poles + on and off neutral pole). It is suitable for making and breaking circuit or electric isolation.
- Mark window on the front side indicates making and breaking conditions of contacts.
- Rear observation window can be provided with according to the demand and directly observes making and breaking conditions of the contacts.
- Operation mode
Direct operation: Handle is directly installed on the switch.
External operation: Handle is installed outside the door of distribution board.
- Auxiliary contacts can be installed.
- Cable insulating cover can be installed.

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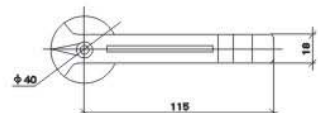


注：加长轴标准长度
63A、100A：200mm、
160A、250A：330mm、
630A：300mm、
1600A、3150A、4000A：330mm。

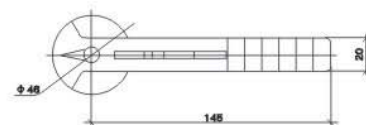
Note: standard length of extended shaft
630A, 100A: 200mm,
160A, 250A: 330mm,
630A: 300mm,
1600A, 3150A, 4000A: 330mm.



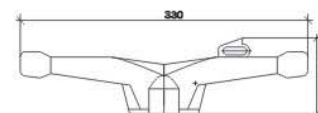
SIWOG1(GL)-160~630A/3, 4J



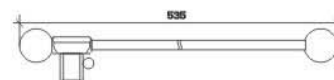
SIWOG1(GL)-160~250A/3, 4
SIWOG1(GL)-160~250A/3, 4C(Z)J



SIWOG1(GL)-630A/3, 4
SIWOG1(GL)-630A/3, 4C(Z)J



SIWOG1(GL)-1000A~1600A/3, 4
SIWOG1(GL)-1000A~1600A/3, 4C(Z)J



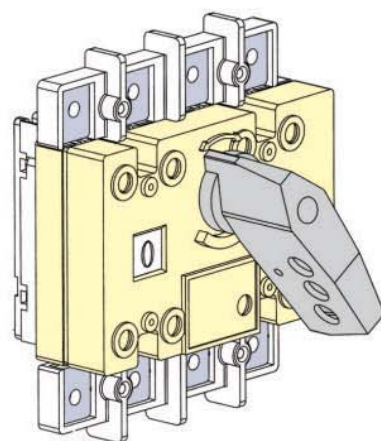
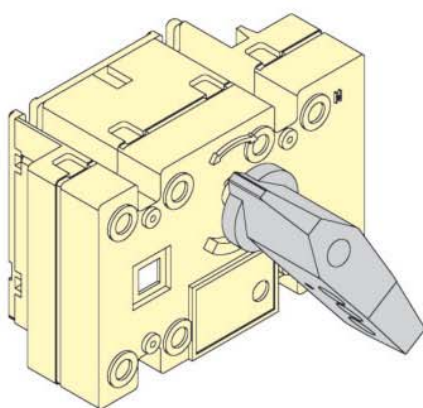
SIWOG1(GL)-2000A~4000A/3, 4
SIWOG1(GL)-2000A~4000A/3, 4C(Z)J

SIWOG1(GL)-63~100隔离开关

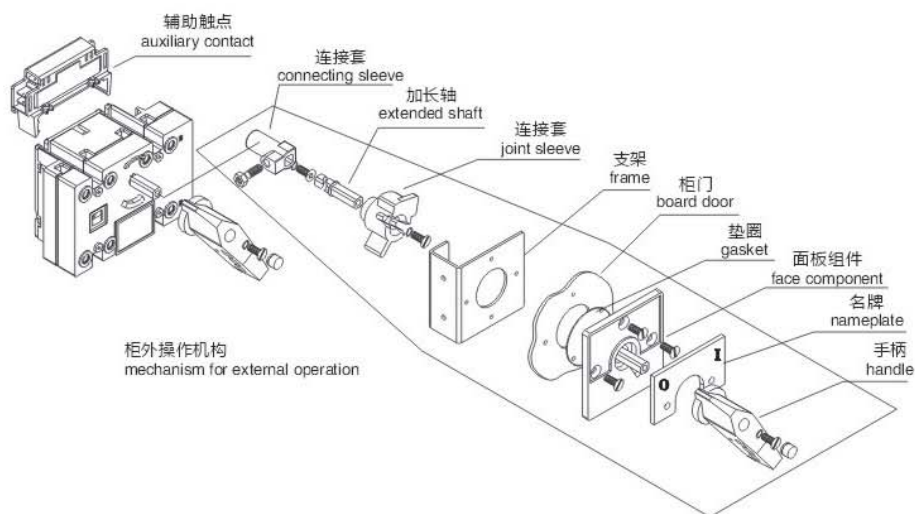
SIWOG1(GL)-63~100 switch-disconnector

- 63-100适用于电路的接通与分断或电气隔离。
- 63-100有三极、四极（三极+可通断中性极）。
- 可根据需要装配辅助触点。

- 63-100 are suitable for making and breaking circuit or electric isolation.
- 63-100 have three poles, four poles (three poles+on and off neutral pole).
- Auxiliary contacts can be installed according to the demand.

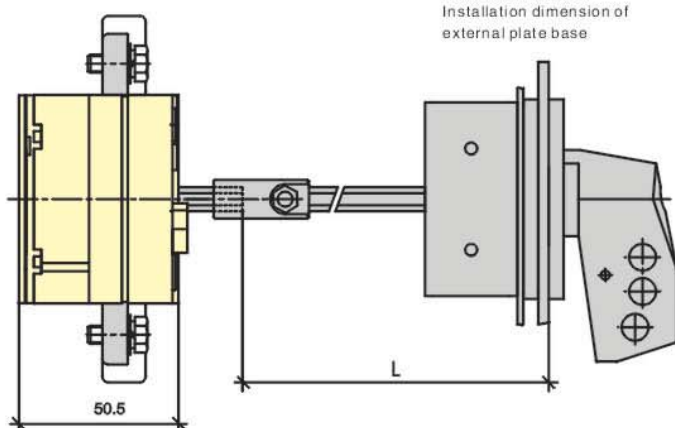
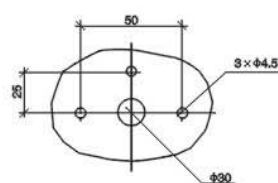
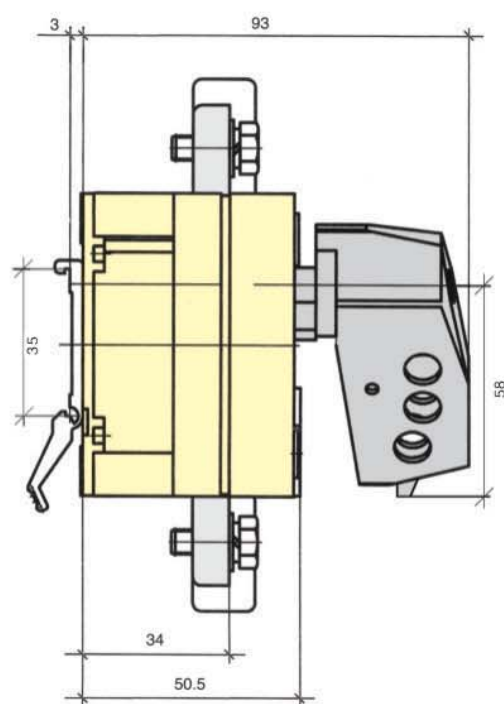
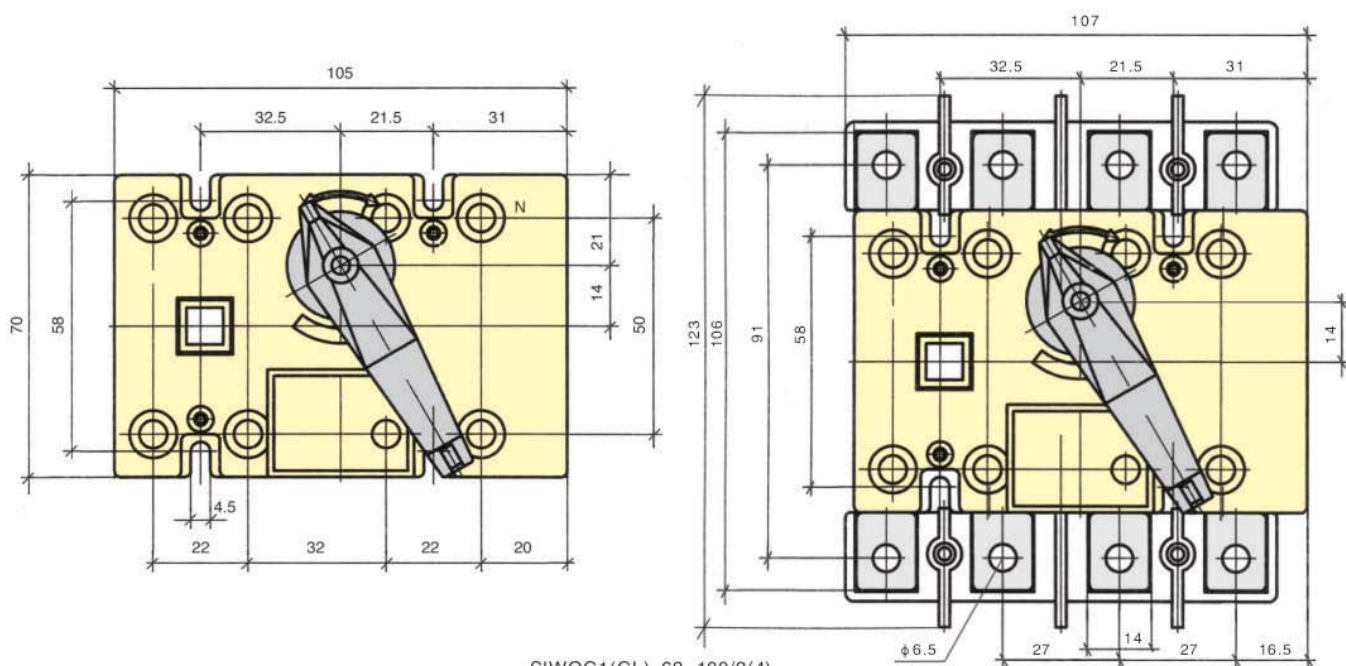


SIWOG1(GL)-63~100 隔离开关
SIWOG1(GL)-63~100 switch-disconnector



SIWOG1(GL)-63 ~ 100外形与安装尺寸

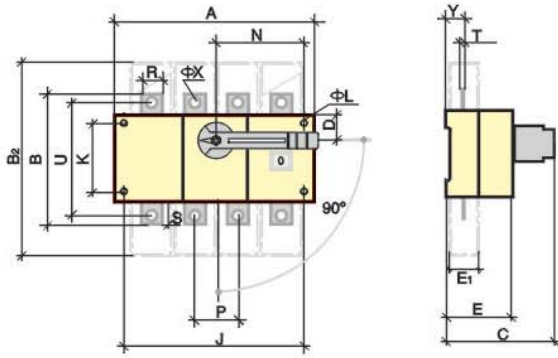
Outline and installation dimensions of SIWOG1(GL)-63 ~ 100



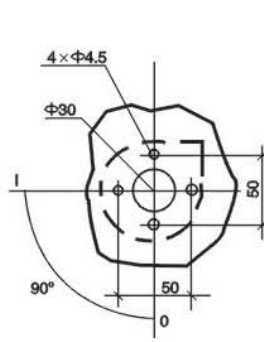
Lmin=29mm Lmax=233mm

SIWOG1(GL)-160 ~ 630外形与安装尺寸

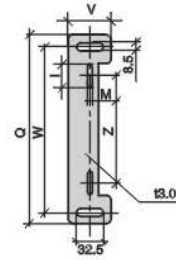
Outline and installation dimensions of SIWOG1(GL)-160 ~ 630



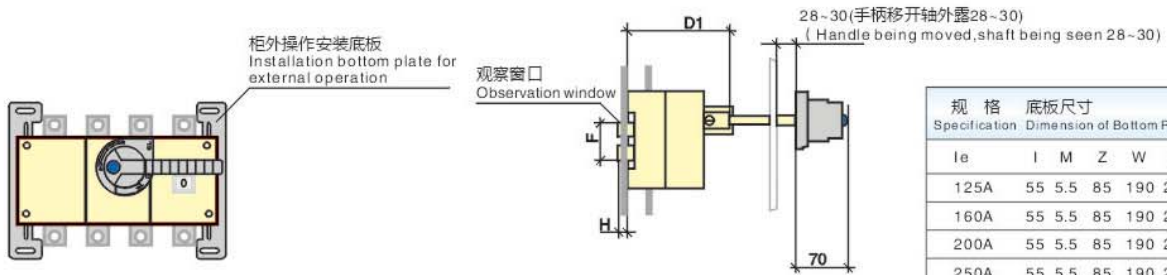
SIWOG1(GL)-160~630
柜内操作 Internal operation



柜外手柄座安装尺寸
Installation dimension
of external handle base



柜外操作安装底板
Installation bottom
plate for external
operation

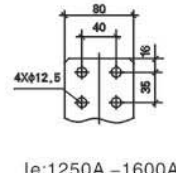
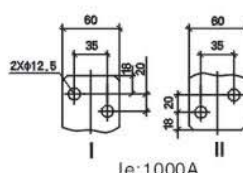
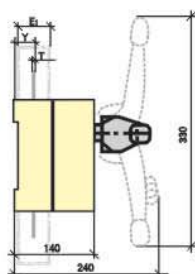


SIWOG1(GL)-160~630/JK
柜外操作 External operation

规格	底板尺寸						
Specification	Dimension of Bottom Plate						
Ie	I	M	Z	W	Q	V	
125A	55	5.5	85	190	218	54	
160A	55	5.5	85	190	218	54	
200A	55	5.5	85	190	218	54	
250A	55	5.5	85	190	218	54	
315A	60	6.5	130	240	270	55	
400A	60	6.5	130	240	270	55	
500A	60	6.5	130	240	270	55	
630A	60	6.5	130	240	270	55	

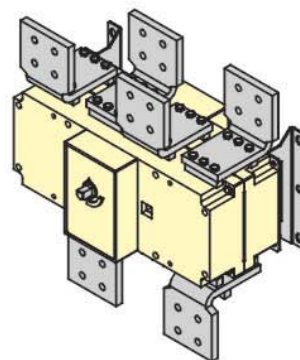
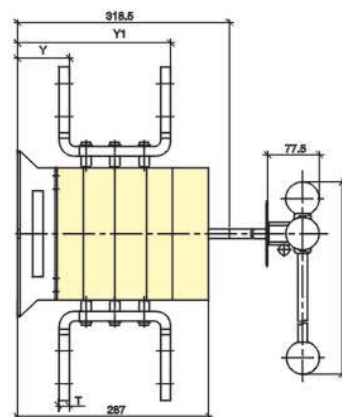
规格 Specification	外形尺寸与安装尺寸 Outline Dimension and Installation Dimension																				
Ie	A	B	C	D	D1	E	E1	S	φL	J	K	N	P	R	B2	T	U	φX	Y	F	H
SIWOG1(GL)-160/3(125A,160A)	140	135	135	27	90	71	50	25	5.5	120	65	75	36	20	235	3.5	115	9	24	52	7.5
SIWOG1(GL)-160/4(125A,160A)	170	135	135	27	90	71	50	25	5.5	150	65	75	36	20	235	3.5	115	9	24	52	7.5
SIWOG1(GL)-250/3(200A,250A)	180	170	147	35	101	83	60	30	5.5	160	90	105	50	25	290	3.5	140	11	25	79	13.5
SIWOG1(GL)-250/4(200A,250A)	230	170	147	35	101	83	60	30	5.5	210	90	105	50	25	290	3.5	140	11	25	79	13.5
SIWOG1(GL)-400/3(315A,400A)	230	240	189	50	144	114	85	40	7	210	140	135	65	32	400	5	206	11	37	100	24
SIWOG1(GL)-400/4(315A,400A)	290	240	189	50	144	114	85	40	7	270	140	135	65	32	400	5	206	11	37	100	24
SIWOG1(GL)-630/3(500A,630A)	230	260	189	50	144	114	85	50	7	210	140	135	65	40	400	6	220	12	37	100	24
SIWOG1(GL)-630/4(500A,630A)	290	260	189	50	144	114	85	50	7	270	140	135	65	40	400	6	220	12	37	100	24

Outline and installation dimensions of SIWOG1(GL)–1000 ~ 3150



SIWOG1(GL)-1600

柜内操作 Internal operation

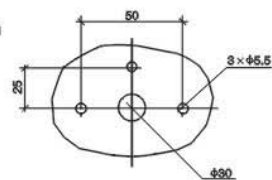


SIWOG1(GL)-3150

柜内操作 Internal operation

SIWOG1(GL)-3150

柜外操作 External operation

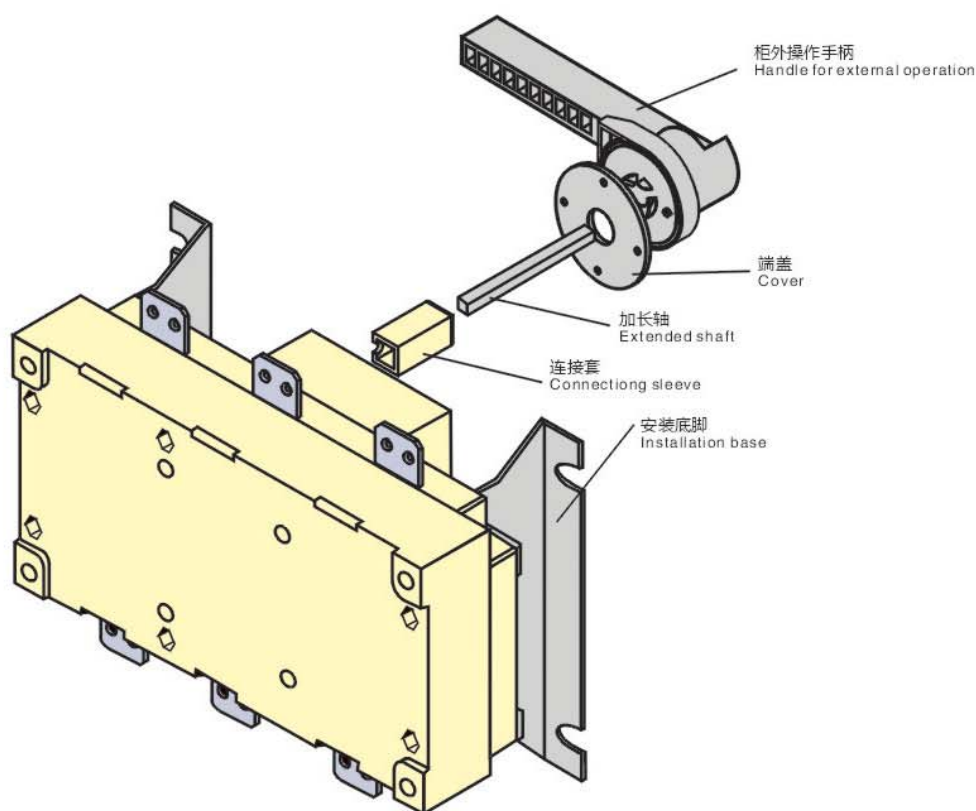


柜外面板座安装尺寸
Installation dimension of
external plate base

规格 Specification	外形尺寸与安装尺寸 Outline Dimension and Installation Dimension									
Ie	A	E1	B	J	N	B2	T	U	Y	Y1
SIWOG1(GL)-1000A/3	378	105	312	353	174	480	8	200	48	
SIWOG1(GL)-1000A/4	492	105	312	467	234	480	8	200	48	
SIWOG1(GL)-1250A/3	378	105	338	353	174	480	8	200	48	
SIWOG1(GL)-1250A/4	492	105	338	467	234	480	8	200	48	
SIWOG1(GL)-1600A/3	378	105	338	353	174	480	8	200	48	
SIWOG1(GL)-1600A/4	492	105	338	467	234	480	8	200	48	
SIWOG1(GL)-2000A/3	378		455	353	174		10	200	76	228
SIWOG1(GL)-2000A/4	492		455	467	234		10	200	76	228
SIWOG1(GL)-2500A/3	378		455	353	174		10	200	76	228
SIWOG1(GL)-2500A/4	492		455	467	234		10	200	76	228
SIWOG1(GL)-3150A/3	378		505	353	174		15	200	78	230
SIWOG1(GL)-3150A/4	492		505	467	234		15	200	78	230

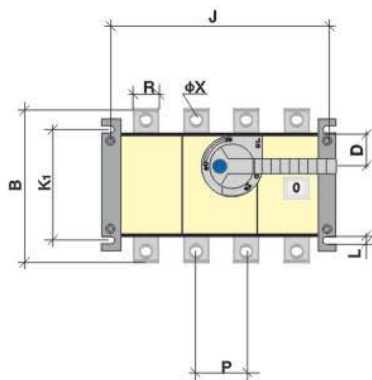
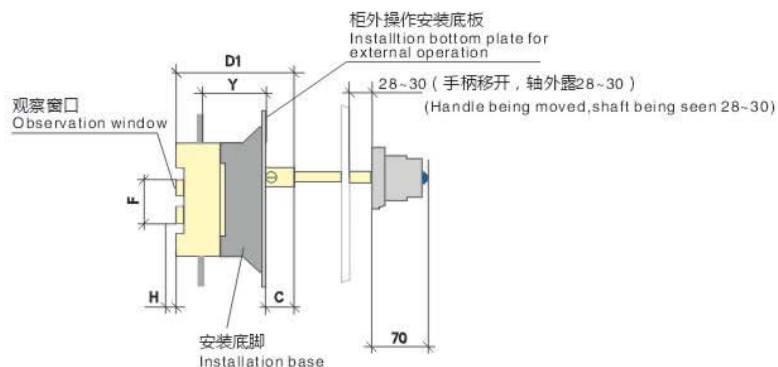
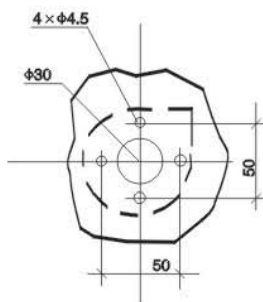
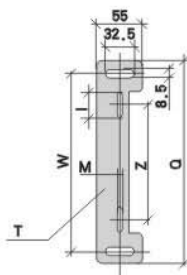
SIWOG1(GL)-160 ~ 1600/H柜后操作隔离开关 SIWOG1(GL)-160 ~ 1600/H switch-disconnector for back operation

- 160 ~ 1600适用于柜后操作电路的接通与分断或电气隔离。
 - 160 ~ 1600有三极、四极(三极+可通断中性极)。
 - 630以下可根据需要提供有观察窗口的产品，直接观察触头的通断状态。
 - 可根据需要配装辅助触点。
- 160~1600 are suitable for making and breaking circuit for back operation or electric isolation.
 - 160~1600 have 3 poles, 4 poles (3 poles+ on and off neutral pole).
 - Products below 630 can be provided with observation window according to the demand and directly observe making and breaking conditions of the contacts.
 - Auxiliary contacts can be installed according to the demand.



SIWOG1(GL)-160 ~ 630/H外形与安装尺寸

Outline and installation dimensions of SIWOG1(GL)-160 ~ 630/H

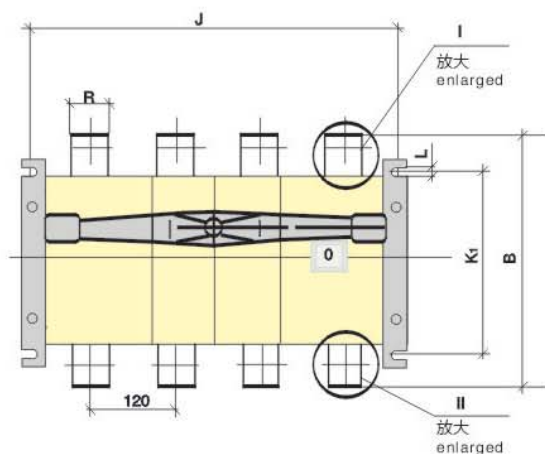
SIWOG1(GL)-160~630/JKH
柜内操作 Internal operationSIWOG1(GL)-160~630/JKH
柜外操作 External operation柜外手柄座安装尺寸
Installation dimension of
external handle base柜外操作安装底板
Installation bottom plate for external
operation

规格 Specification	底板尺寸 Dimension of Bottom Plate					
le	I	M	Z	W	Q	T
125A	60	6.5	115	240	270	3
160A	60	6.5	115	240	270	3
200A	62	8.5	115	240	270	3
250A	62	8.5	115	240	270	3
315A	65	11	170	280	311	4
400A	65	11	170	280	311	4
500A	65	11	170	280	311	4
630A	65	11	170	280	311	4

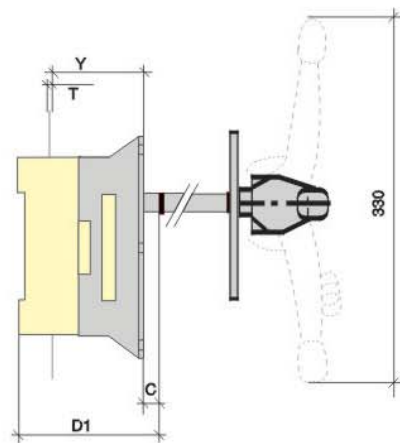
规格 Specification	外形尺寸与安装尺寸 Outline Dimension and Installation Dimension												
le	B	C	D	D1	J	L	P	R	K1	ΦK	F	H	Y
SIWOG1(GL)-160/3H(125A,160A)	135	14	27	90	120	7	36	20	95	9	52	7.5	51
SIWOG1(GL)-160/4H(125A,160A)	135	14	27	90	150	7	36	20	95	9	52	7.5	51
SIWOG1(GL)-250/3H(200A,250A)	170	16	35	101	160	9	50	25	116	11	79	13.5	60
SIWOG1(GL)-250/4H(200A,250A)	170	16	35	101	210	9	50	25	116	11	79	13.5	60
SIWOG1(GL)-400/3H(315A,400A)	240	15	50	144	210	11	65	32	180	11	100	24	78
SIWOG1(GL)-400/4H(315A,400A)	240	15	50	144	270	11	65	32	180	11	100	24	78
SIWOG1(GL)-630/3H(500A,630A)	260	15	50	144	210	11	65	40	180	12	100	24	78
SIWOG1(GL)-630/4H(500A,630A)	260	15	50	144	270	11	65	40	180	12	100	24	78

SIWOG1(GL)-1000 ~ 1600/H外形与安装尺寸

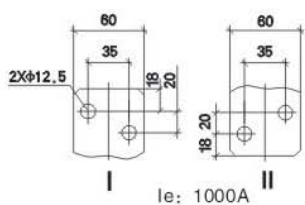
Outline and installation dimensions of SIWOG1(GL)-1000~1600/H



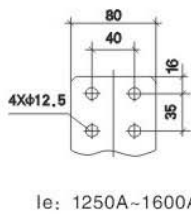
SIWOG1(GL)-1600/JH
柜内操作 Internal operation



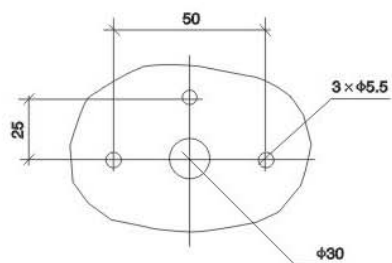
SIWOG1(GL)-1600/JH
柜外操作 External operation



Ie: 1000A



Ie: 1250A~1600A



柜外面板座安装尺寸
Installation dimension of
external plate base

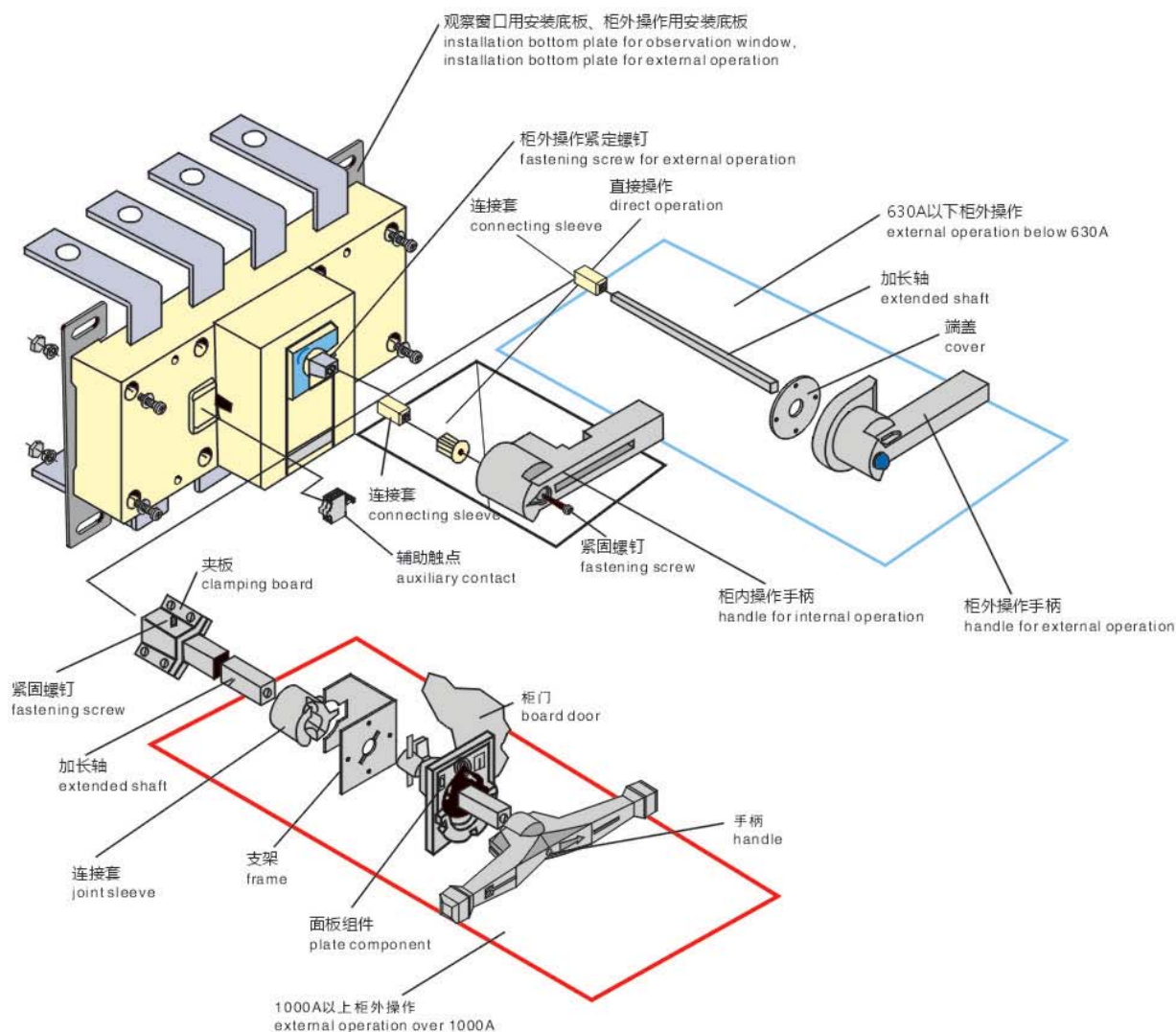
规格 Specification	外形尺寸与安装尺寸 Outline Dimension and Installation Dimension								
Ie	B	C	D1	J	L	R	T	K1	Y
SIWOG1(GL)-1000A/3H	312	25.5	172	353	18	60	8	212	98.5
SIWOG1(GL)-1000A/4H	312	25.5	172	467	18	60	8	212	98.5
SIWOG1(GL)-1250A/3H	338	25.5	172	353	18	80	8	212	98.5
SIWOG1(GL)-1250A/4H	338	25.5	172	467	18	80	8	212	98.5
SIWOG1(GL)-1600A/3H	338	25.5	172	353	18	80	8	212	98.5
SIWOG1(GL)-1600A/4H	338	25.5	172	467	18	80	8	212	98.5

SIWOG1(GL)-160 ~ 1600/B板后接线隔离开关

SIWOG1(GL)-160 ~ 1600/B switch-disconnector for back wire

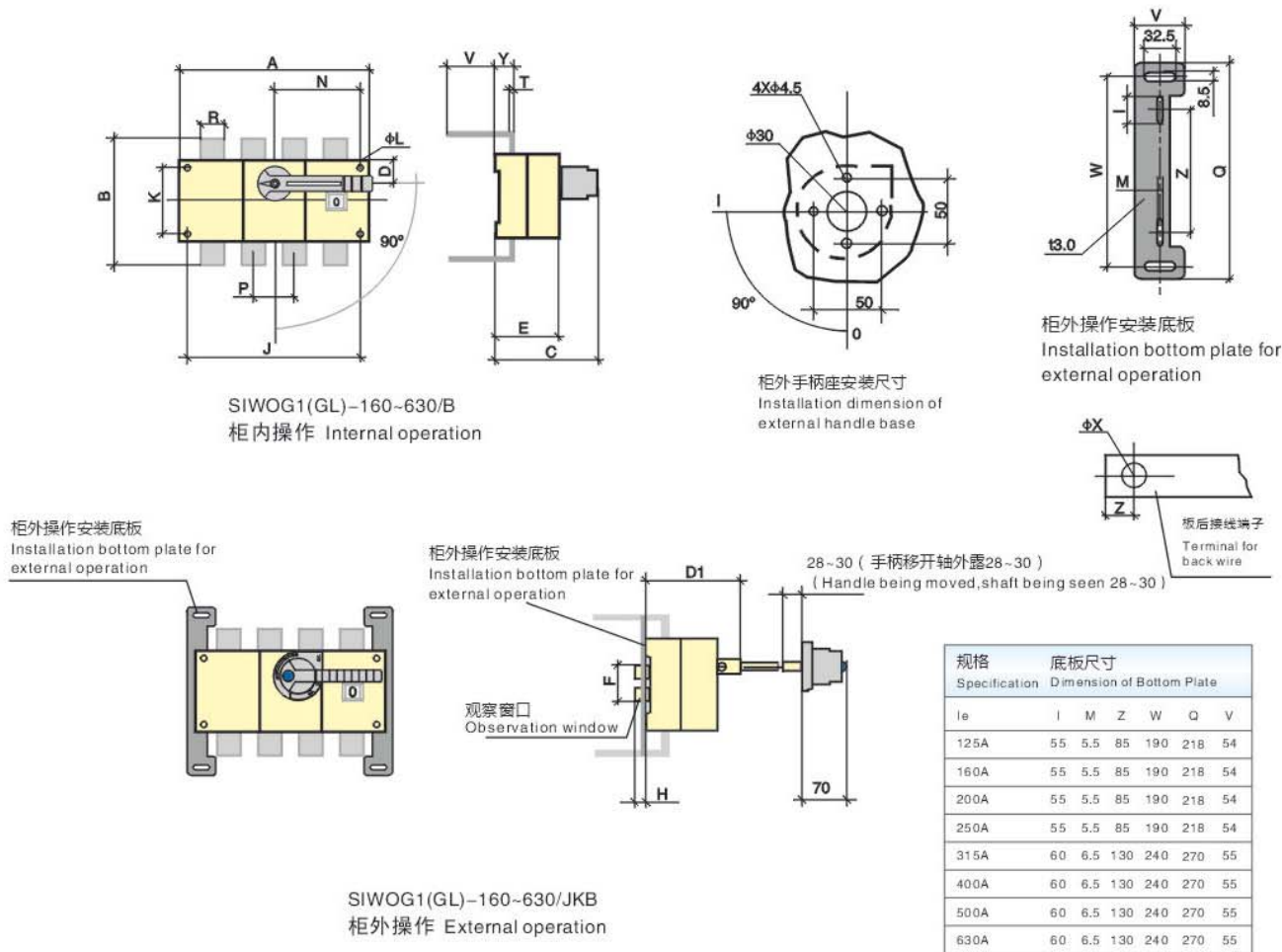
- 160 ~ 1600适用于电路的接通与分断或电气隔离。
- 160 ~ 1600有三极，四极（三极+可通断中性极）。
- 630以下可根据需要提供有观察窗口的产品，直接观察触头的通断状态。
- 可根据需要配装辅助触点。
- 160-1600 are suitable for making and breaking circuit or electric isolation.
- 160-1600 have 3 poles, 4 poles (3 poles + on and off neutral pole).
- Products below 630 can be provided with observation window according to the demand and directly observe making and breaking conditions of the contacts.
- Auxiliary contacts are installed according to the demand.

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SIWOG1(GL)-160~630/B外形与安装尺寸

Outline and installation dimensions of SIWOG1(GL)-160~630/B

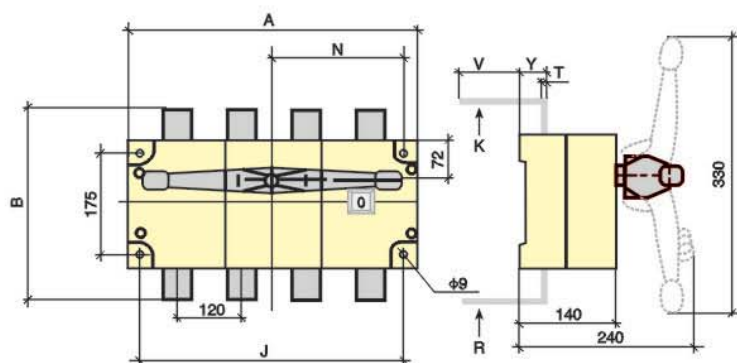


15

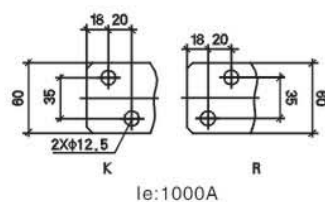
规格 Specification	外形尺寸与安装尺寸 Outline Dimension and Installation Dimension																
le	A	B	C	V	D	D1	E	Z	φL	J	K	N	P	R	T	φX	Y
SIWOG1(GL)-160/3B(125A,160A)	140	189	135	6	27	90	71	10	5.5	120	65	75	36	20	3.5	9	24
SIWOG1(GL)-160/4B(125A,160A)	170	189	135	6	27	90	71	10	5.5	150	65	75	36	20	3.5	9	24
SIWOG1(GL)-250/3B(200A,250A)	180	222	147	10	35	101	83	15	5.5	160	90	105	50	25	3.5	11	25
SIWOG1(GL)-250/4B(200A,250A)	230	222	147	10	35	101	83	15	5.5	210	90	105	50	25	3.5	11	25
SIWOG1(GL)-400/3B(315A,400A)	230	284	189	4	50	144	114	17	7	210	140	135	65	32	5	11	37
SIWOG1(GL)-400/4B(315A,400A)	290	284	189	4	50	144	114	17	7	270	140	135	65	32	5	11	37
SIWOG1(GL)-630/3B(500A,630A)	230	294	189	14	50	144	114	20	7	210	140	135	65	40	6	12	37
SIWOG1(GL)-630/4B(500A,630A)	290	294	189	14	50	144	114	20	7	270	140	135	65	40	6	12	37

SIWOG1(GL)-1000 ~ 1600/B外形与安装尺寸

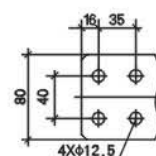
Outline and installation dimensions of SIWOG1(GL)-1000~1600/B



SIWOG1(GL)-1600/B
柜内操作 Internal operation

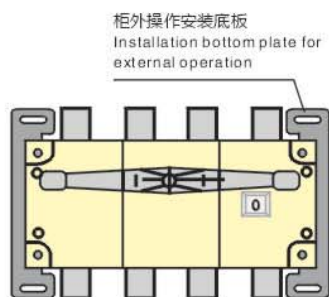


Ie:1000A

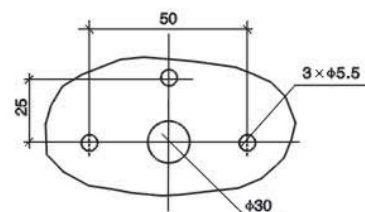
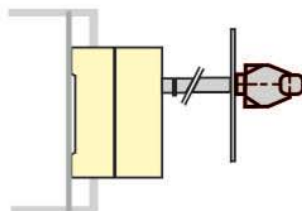


Ie:1250A~1600A

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SIWOG1(GL)-1600/JB
柜外操作 External operation



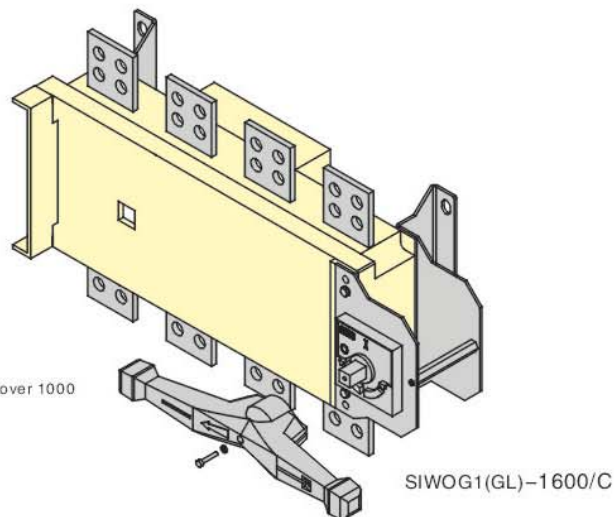
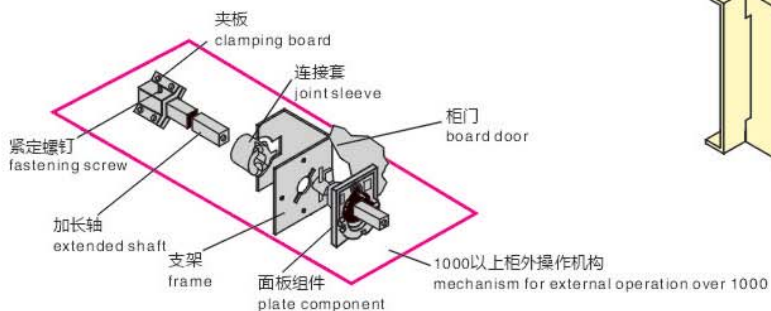
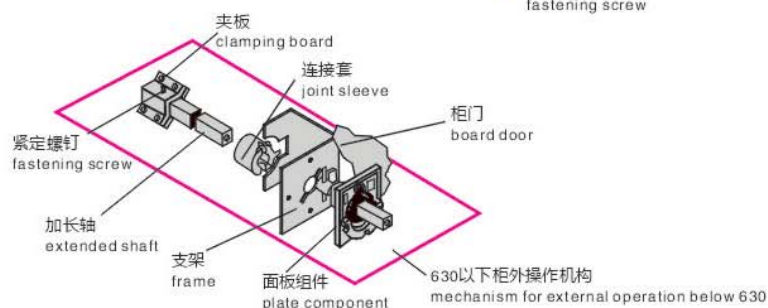
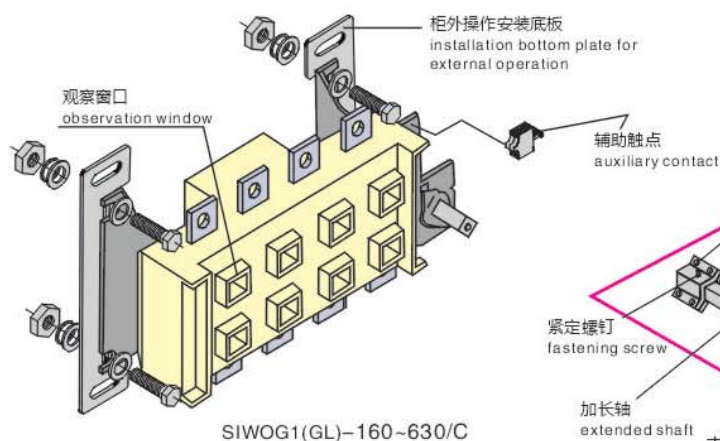
柜外面板座安装尺寸
Installation dimension of external plate base

规格 Specification	外形尺寸与安装尺寸 Outline Dimension and Installation Dimension						
Ie	A	B	V	J	N	T	Y
SIWOG1(GL)-1000A/3B	378	344	22	353	174	8	48
SIWOG1(GL)-1000A/4B	492	344	22	467	234	8	48
SIWOG1(GL)-1250A/3B	378	344	32	353	174	8	48
SIWOG1(GL)-1250A/4B	492	344	32	467	237	8	48
SIWOG1(GL)-1600A/3B	378	344	32	353	174	8	48
SIWOG1(GL)-1600A/4B	492	344	32	467	234	8	48

SIWOG1(GL)-63 ~ 3150/C侧面操作隔离开关 SIWOG1(GL)-63 ~ 3150/C switch-disconnector for side operation

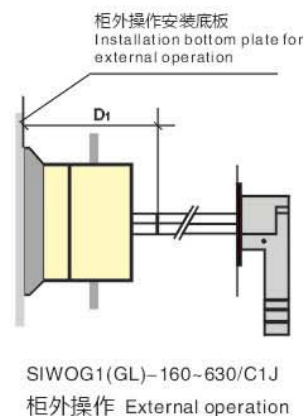
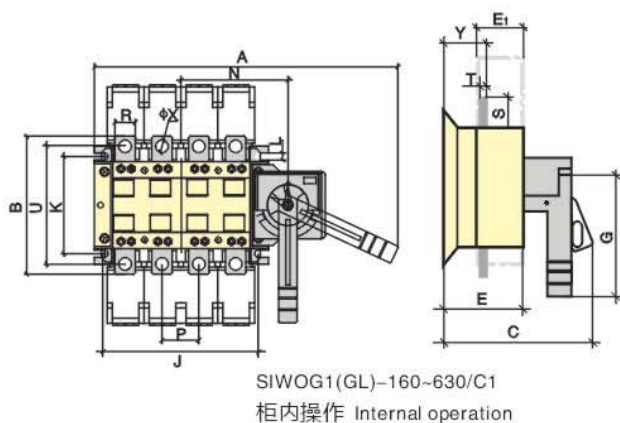
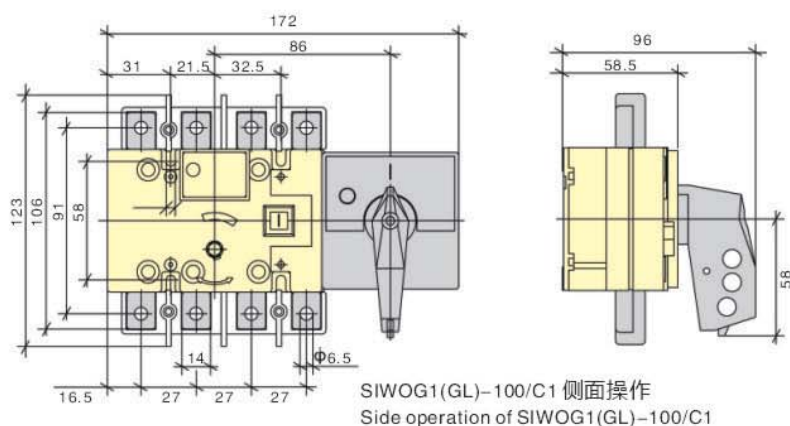
- SIWOG1(GL)-63 ~ 3150/C适用于电路的接通与分断或电气隔离。有三极、四极、(三极+可通断中性极)。
- 160 ~ 630可根据需要提供有观察窗口的产品，直接观察触头的通断状态。
- 操作方式：
直接操作：手柄直接安装于开关本体。
柜外操作：手柄安装在配电柜柜门外。
- 根据需要可配装辅助触点。
- 加长轴用于柜外操作。
- 可配装电缆绝缘罩。

- SIWOG1(GL)-63 ~ 3150/C are suitable for making and breaking circuit or electric isolation. The products have three poles, four poles, (three poles + on and off neutral pole).
- Products below 160 ~ 630 can be provided with observation window according to the demand and directly observe making and breaking conditions of the contacts.
- Operation mode:
Direct operation: Handle is directly installed on the switch.
External operation: Handle is installed outside the door of distribution board.
- Auxiliary contacts can be installed according to the demand.
- Extended shaft is used for external operation.
- Cable insulating cover can be installed.



SIWOG1(GL)-100 ~ 630/C1外形与安装尺寸

Outline and installation dimensions of SIWOG1(GL)-100 ~ 630/C1



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规格 Specification	外形尺寸与安装尺寸 Outline Dimension and Installation Dimension																	
Ie	A	E1	B	C	D1	E	G	J	K	P	R	S	T	U	φX	N	Y	L
SIWOG1(GL)-160/3C1(125A,160A)	267	50	135	166	123	88	115	120	95	36	20	25	3.5	115	9	89	55	7
SIWOG1(GL)-160/4C1(125A,160A)	297	50	135	166	123	88	115	150	95	36	20	25	3.5	115	9	104	55	7
SIWOG1(GL)-250/3C1(200A,250A)	300	60	170	174	132	97	115	160	116	50	25	30	3.5	140	11	110	64	9
SIWOG1(GL)-250/4C1(200A,250A)	350	60	170	174	132	97	115	210	116	50	25	30	3.5	140	11	135	64	9
SIWOG1(GL)-400/3C1(315A,400A)	400	85	240	220	162	128	145	210	180	65	32	40	5	206	11	150	83	11
SIWOG1(GL)-400/4C1(315A,400A)	460	85	240	220	162	128	145	270	180	65	32	40	5	206	11	180	83	11
SIWOG1(GL)-630/3C1(500A,630A)	400	85	260	220	162	128	145	210	180	65	40	50	6	220	12	150	84	11
SIWOG1(GL)-630/4C1(500A,630A)	460	85	260	220	162	128	145	270	180	65	40	50	6	220	12	180	84	11

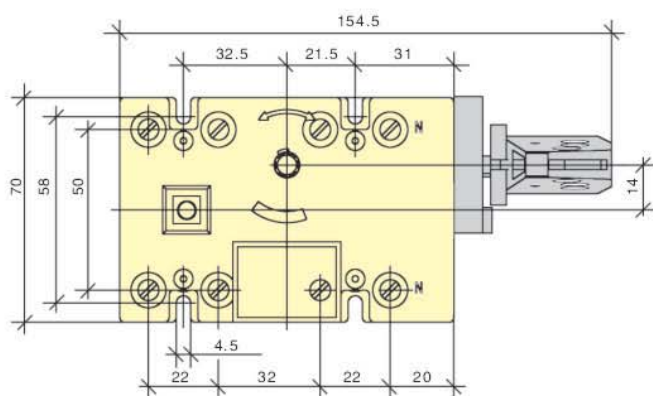
Outline and installation dimensions of SIWOG1(GL)–1000~3150/C1



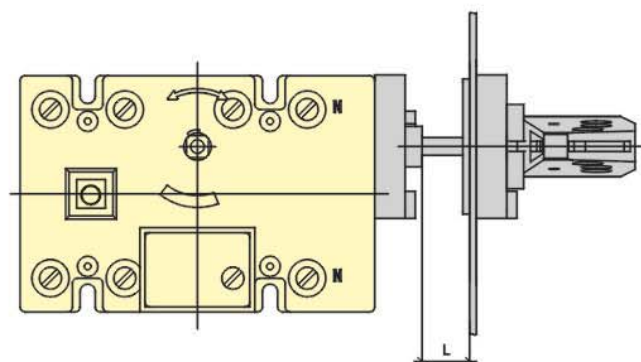
柜外面板座安装尺寸
Installation dimension
of external plate base

SIWOG1(GL)-63 ~ 100/C2外形与安装尺寸

Outline and installation dimensions of SIWOG1(GL)-63 ~ 100/C2



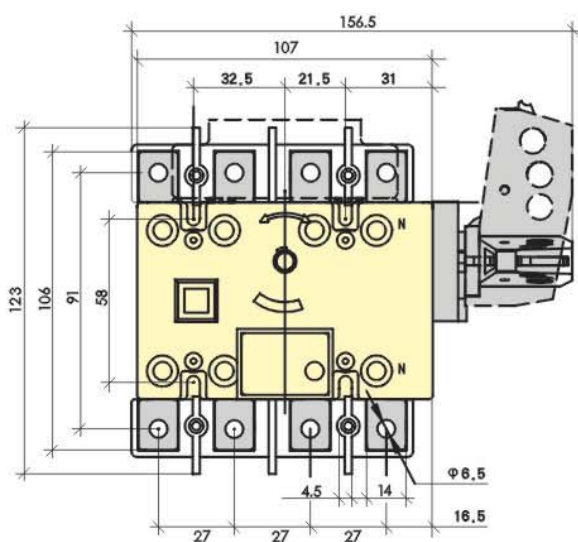
SIWOG1(GL)-63/3(4)C2
柜内操作 Internal operation



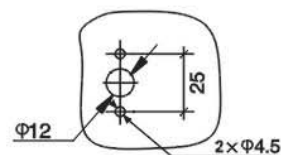
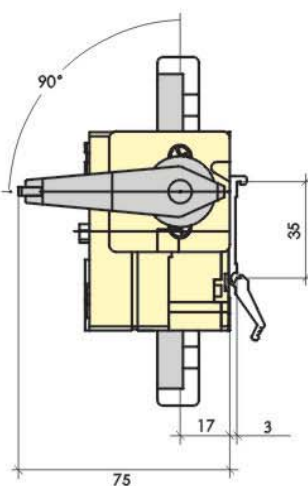
SIWOG1(GL)-63/3(4)C2J
柜外操作 External operation

加长轴的长度: $L+34$
Length of extended shaft: $L+34$

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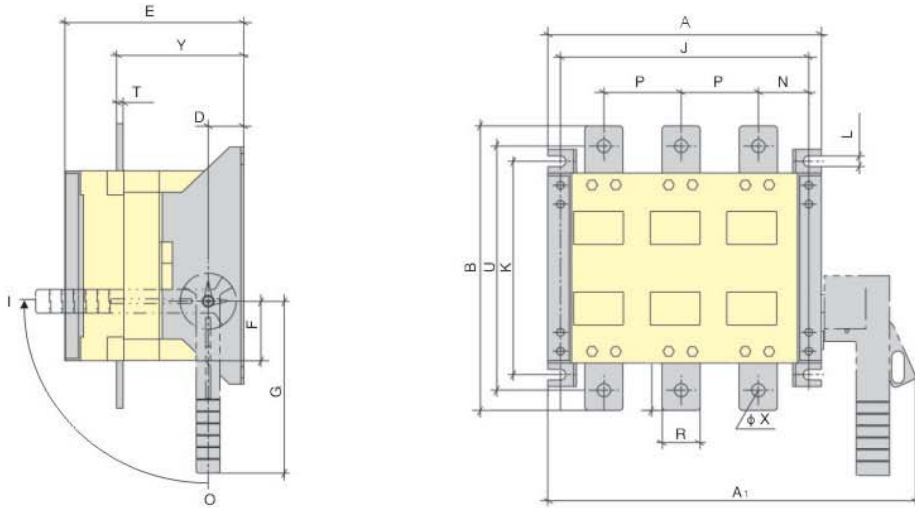
SIWOG1(GL)-100/3(4)C2
柜内操作 Internal operation



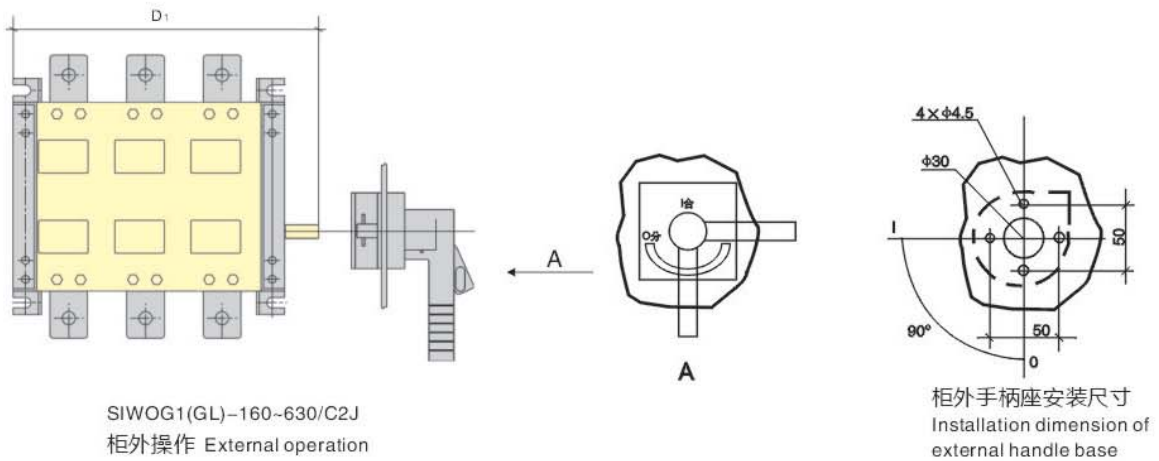
SIWOG1(GL)-100/3(4)C2J
柜外面板座安装尺寸
Installation dimension of
external plate base

SIWOG1(GL)-160 ~ 630/C2外形与安装尺寸

Outline and installation dimensions of SIWOG1(GL)-160 ~ 630/C2



SIWOG1(GL)-160-630/C2
柜内操作 Internal operation



SIWOG1(GL)-160-630/C2J
柜外操作 External operation

柜外手柄座安装尺寸
Installation dimension of
external handle base

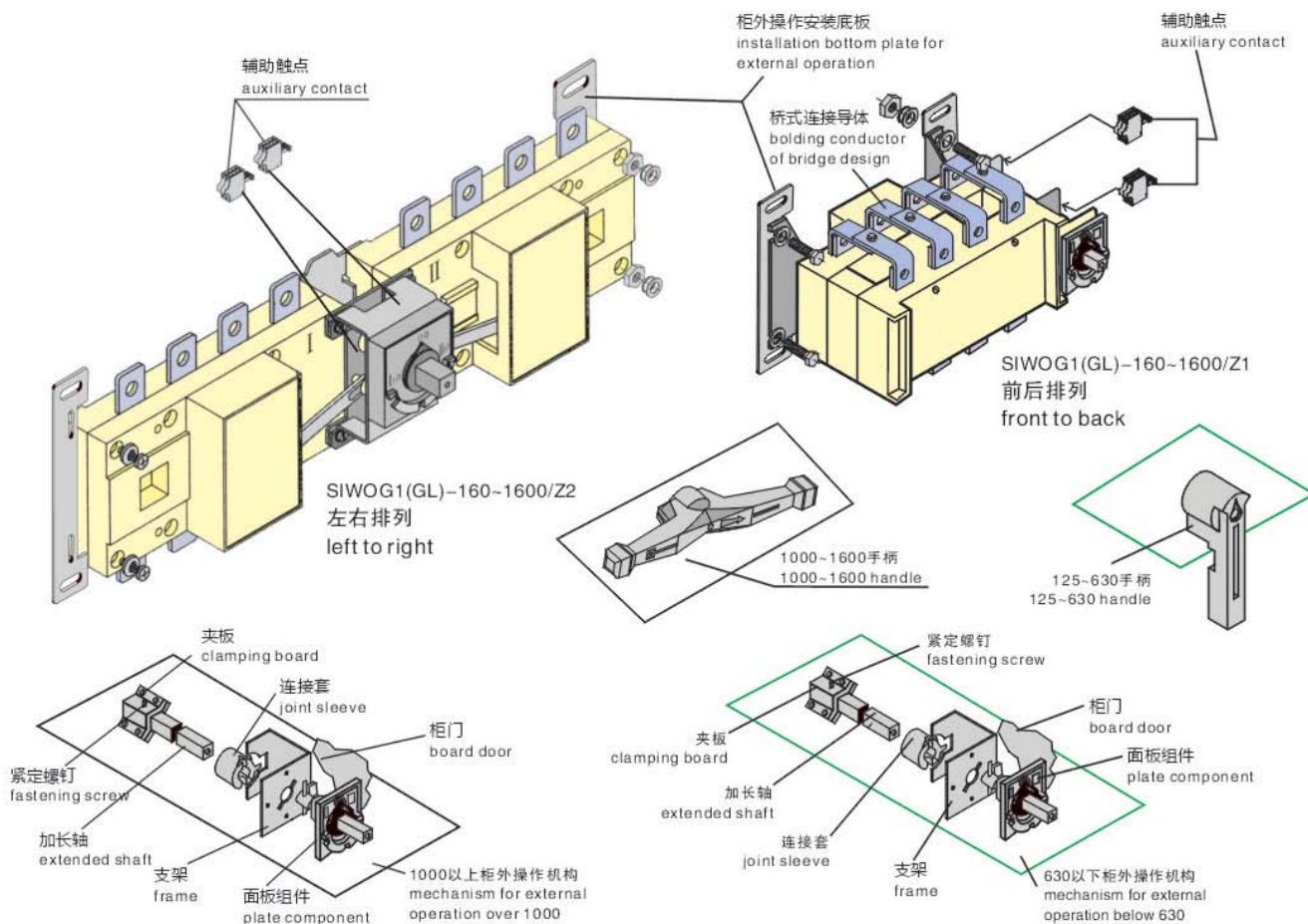
规格 Specification	外形尺寸与安装尺寸 Outline Dimension and Installation Dimension																		
Ie	A	A1	B	D	D1	E	F	G	J	K	L	N	P	R	S	T	U	φX	Y
SIWOG1(GL)-160/3(125A,160A)	140	231	135	25	171	105	27	115	120	95	7	29	36	20	25	3.5	115	9	71
SIWOG1(GL)-160/4(125A,160A)	170	243	135	25	201	105	27	115	150	95	7	22	36	20	25	3.5	115	9	71
SIWOG1(GL)-250/3(200A,250A)	180	253	170	26	211	111	35	115	160	116	9	33	50	25	30	3.5	140	11	81
SIWOG1(GL)-250/4(200A,250A)	230	303	170	26	261	111	35	115	210	116	9	33	50	25	30	3.5	140	11	81
SIWOG1(GL)-400/3(315A,400A)	230	312	240	30	258	151	50	145	210	180	11	43	65	32	40	5	206	11	106
SIWOG1(GL)-400/4(315A,400A)	290	372	240	30	318	151	50	145	270	180	11	38	65	32	40	5	206	11	106
SIWOG1(GL)-630/3(500A,630A)	230	312	260	30	258	151	50	145	210	180	11	43	65	40	50	6	220	12	107
SIWOG1(GL)-630/4(500A,630A)	290	372	260	30	318	151	50	145	270	180	11	38	65	40	50	6	220	12	107

SIWOG1(GL)-100 ~ 3150/Z转换隔离开关

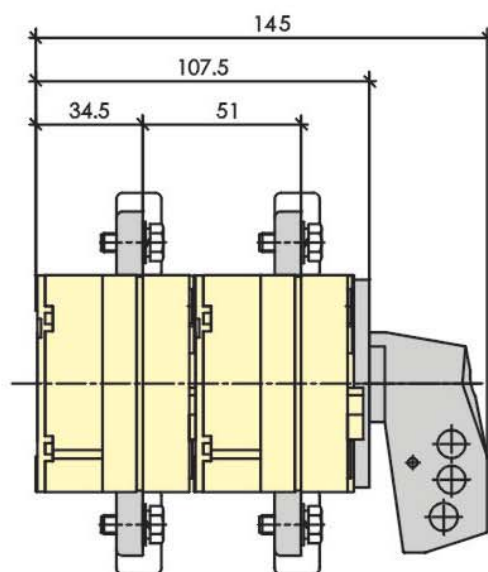
SIWOG1(GL)-100 ~ 3150/Z changeover switch-disconnector

- SIWOG1(GL)-100 ~ 3150/Z适用于两条低压电路切换或者两个负载设备的转换或安全隔离等。
- 操作方式：
直接操作：手柄直接安装于开关本体。
柜外操作：手柄安装在配电柜柜门外。
- 有三极、四极（三极+可通断中性极）。
- 加长轴用于柜外操作。
- 根据需要可配装辅助触点。
- Z1产品可提供桥式连接导体。
- 可配装电缆绝缘罩。
- SIWOG1(GL)-100 ~ 3150/Z are suitable for transfer between two low voltage circuits or changeover between two load equipments or safety isolation.
- Operation mode:
Direct operation: Handle is directly installed on the switch.
External operation: Handle is installed outside the door of distribution board.
- It has 3 poles, 4 poles (3 poles + on and off neutral pole).
- Extended shaft is used for external operation.
- Auxiliary contacts can be installed according to the demand.
- Z1 product can provide with holding conductor of bridge design.
- Cable insulating cover can be installed.

22



Outline and installation dimensions of SIWOG1(GL)-100/Z1



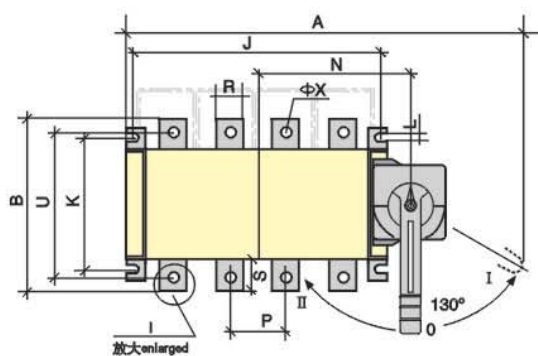
23

Technical drawing of a circular plate with three holes. The plate has an outer diameter of 50 and an inner diameter of 30. Three holes, each with a diameter of 4.5, are arranged in a triangular pattern. The distance between the centers of any two holes is 25.

柜外面板座安装尺寸
Installation dimension of external plate base

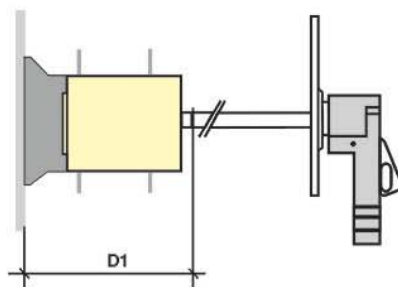
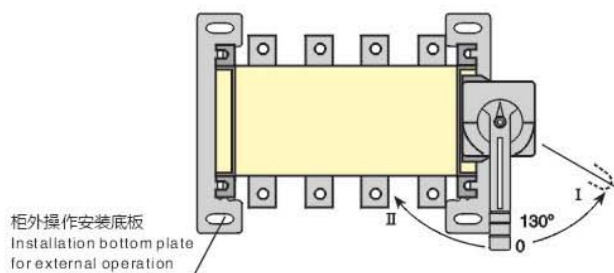
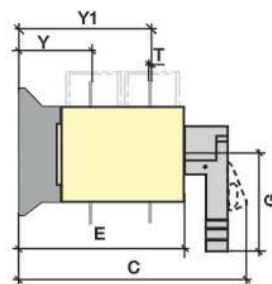
SIWOG1(GL)-160 ~ 630/Z1外形与安装尺寸

Outline and installation dimensions of SIWOG1(GL)-160 ~ 630/Z1



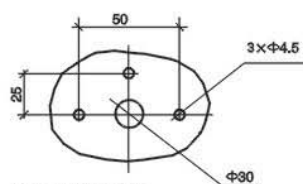
SIWOG1(GL)-160~630/Z1

柜内操作 Internal operation



SIWOG1(GL)-160~630/Z1

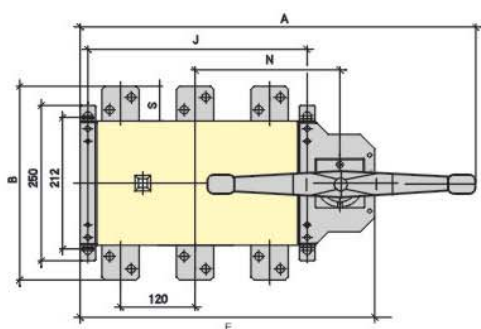
柜外操作 External operation


柜外面板安装尺寸
Installation dimension
of external plate

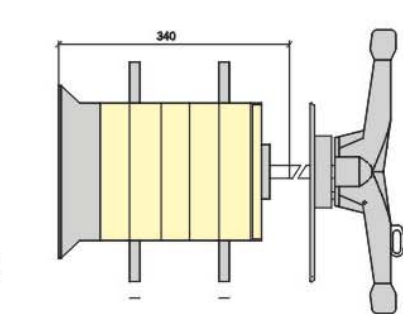
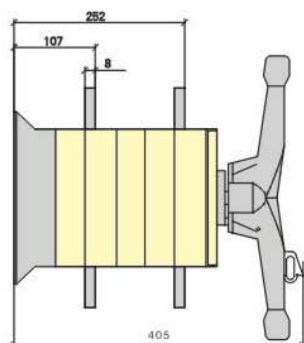
型号规格 Specification	外形尺寸与安装尺寸 Outline Dimension and Installation Dimension																	
Ie	A	B	C	G	D1	E	J	S	N	K	L	P	R	T	U	ΦX	Y	Y1
SIWOG1(GL)-160/3Z1 (125A, 160A)	267	135	232	115	189	154	120	25	89	95	7	36	20	3.5	115	9	55	120
SIWOG1(GL)-160/4Z1 (125A, 160A)	297	135	232	115	189	154	150	25	104	95	7	36	20	3.5	115	9	55	120
SIWOG1(GL)-250/3Z1 (200A, 250A)	300	170	253	115	215	179	160	30	110	116	9	50	25	3.5	140	11	64	143
SIWOG1(GL)-250/4Z1 (200A, 250A)	350	170	253	115	215	179	210	30	135	116	9	50	25	3.5	140	11	64	143
SIWOG1(GL)-400/3Z1 (315A, 400A)	400	240	327	145	274	240	210	40	150	180	11	65	32	5	206	11	83	195
SIWOG1(GL)-400/4Z1 (315A, 400A)	460	240	327	145	274	240	270	40	180	180	11	65	32	5	206	11	83	195
SIWOG1(GL)-630/3Z1 (500A, 630A)	400	260	327	145	274	240	210	50	150	180	11	65	40	6	220	12	84	196
SIWOG1(GL)-630/4Z1 (500A, 630A)	460	260	327	145	274	240	270	50	180	180	11	65	40	6	220	12	84	196

SIWOG1(GL)-1000 ~ 3150/Z1外形与安装尺寸

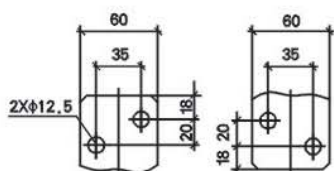
Outline and installation dimensions of SIWOG1(GL)-1000~3150/Z1



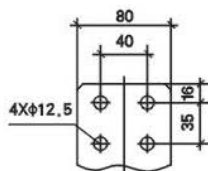
SIWOG1(GL)-1600/Z1
柜内操作 Internal operation



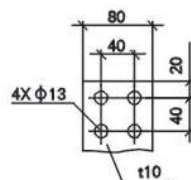
SIWOG1(GL)-1600/Z1
柜外操作 External operation



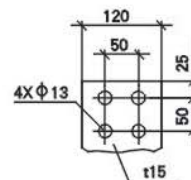
Ie: 1000A



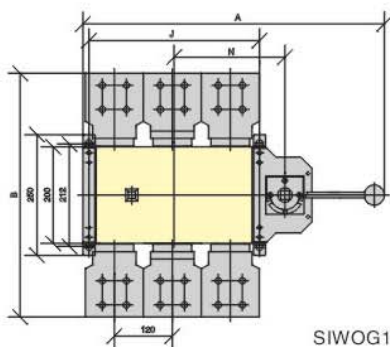
Ie: 1250A~1600A



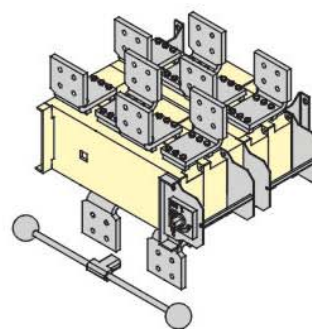
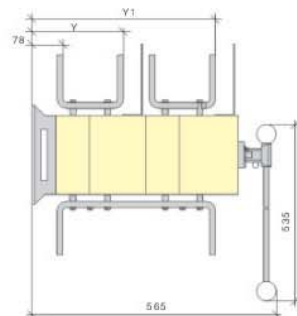
Ie: 2000A~2500A



Ie: 3150A

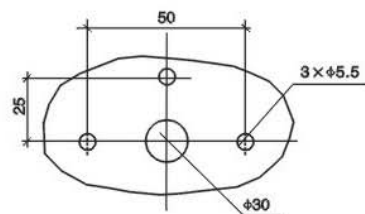


SIWOG1(GL)-3150/Z1
柜内操作 Internal operation



SIWOG1(GL)-3150/Z1

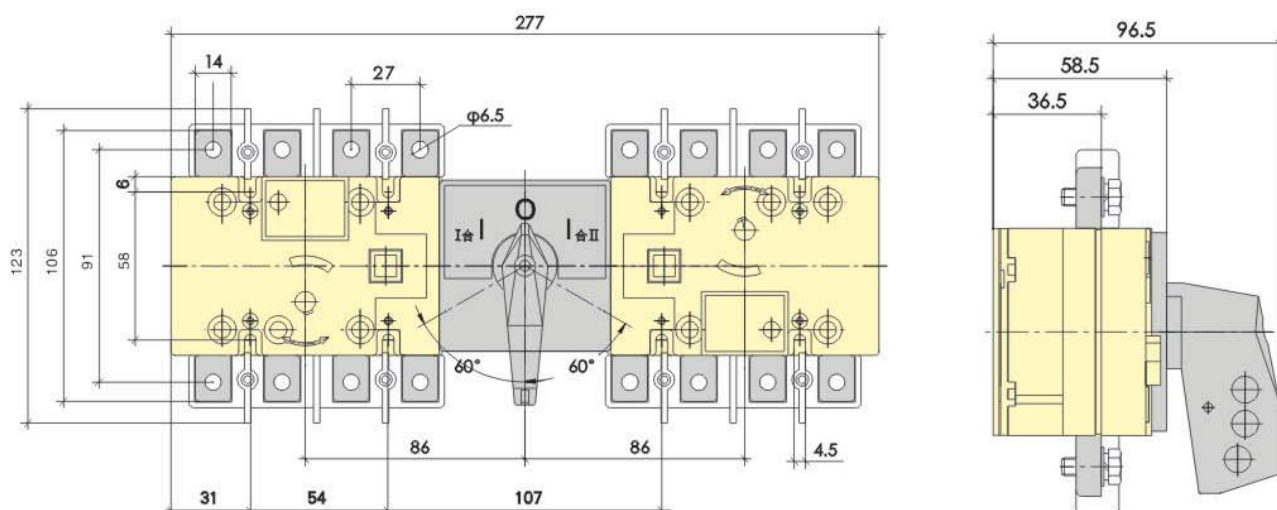
规格 Specification	外形尺寸与安装尺寸 Outline Dimension and Installation Dimension							
Ie	A	B	J	N	S	Y	Y1	E
SIWOG1(GL)-1000A/3Z1	583	312	353	229	56			474
SIWOG1(GL)-1000A/4Z1	697	312	467	286	56			588
SIWOG1(GL)-1250A/3Z1	583	338	353	229	69			474
SIWOG1(GL)-1250A/4Z1	697	338	467	286	69			588
SIWOG1(GL)-1600A/3Z1	583	338	353	229	69			474
SIWOG1(GL)-1600A/4Z1	697	338	467	286	69			588
SIWOG1(GL)-2000A/3Z1	883	455	353	229		226	458	
SIWOG1(GL)-2000A/4Z1	997	455	467	286		226	458	
SIWOG1(GL)-2500A/3Z1	883	455	353	229		226	458	
SIWOG1(GL)-2500A/4Z1	997	455	467	286		226	458	
SIWOG1(GL)-3150A/3Z1	883	505	353	229		230	463	
SIWOG1(GL)-3150Z/4Z1	997	505	467	286		230	463	



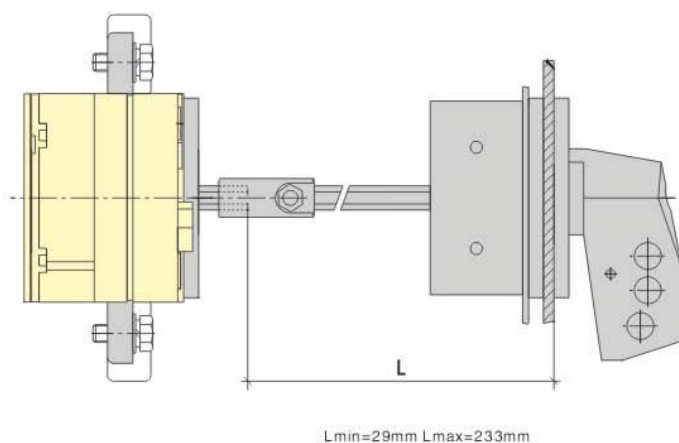
柜外面板座安装尺寸
Installation dimension of external plate base

SIWOG1(GL)-100/Z2外形与安装尺寸

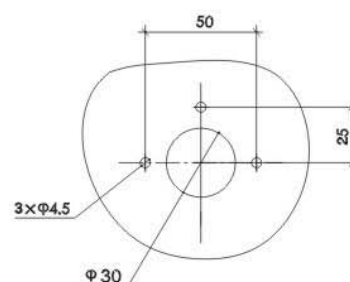
Outline and installation dimensions of SIWOG1(GL)-100/Z2



SIWOG1(GL)-100/3(4)Z2
柜内操作 Internal operation



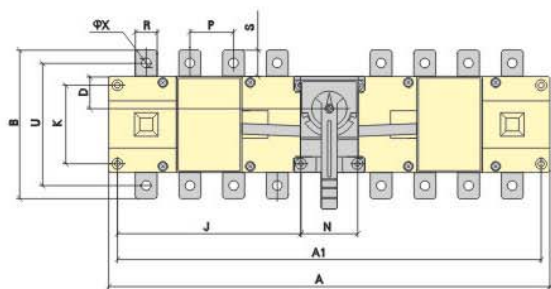
SIWOG1(GL)-100/3(4)Z2J
柜外操作 External operation



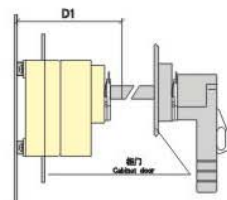
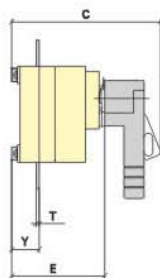
柜外面板座安装尺寸
Installation dimension of external plate base

SIWOG1(GL)-160 ~ 1600/Z2外形与安装尺寸

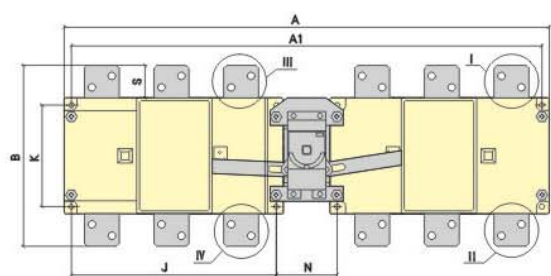
Outline and installation dimensions of SIWOG1(GL)-160 ~ 1600/Z2



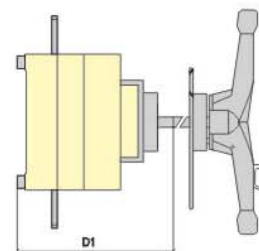
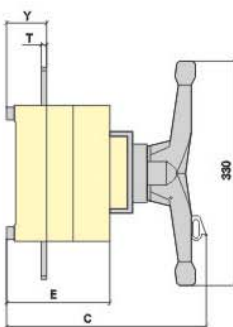
SIWOG1(GL)-160~630/Z2
柜内操作 Internal operation



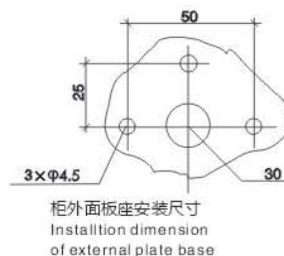
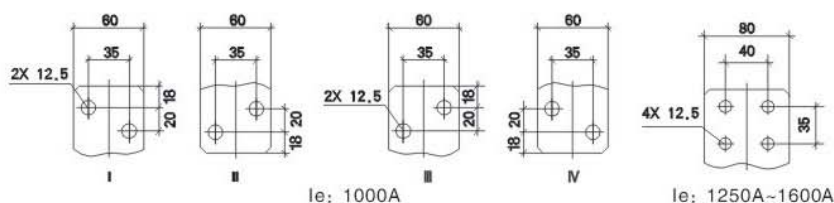
SIWOG1(GL)-160~630/Z2J
柜外操作 External operation



SIWOG1(GL)-1000~1600/Z2
柜内操作 Internal operation



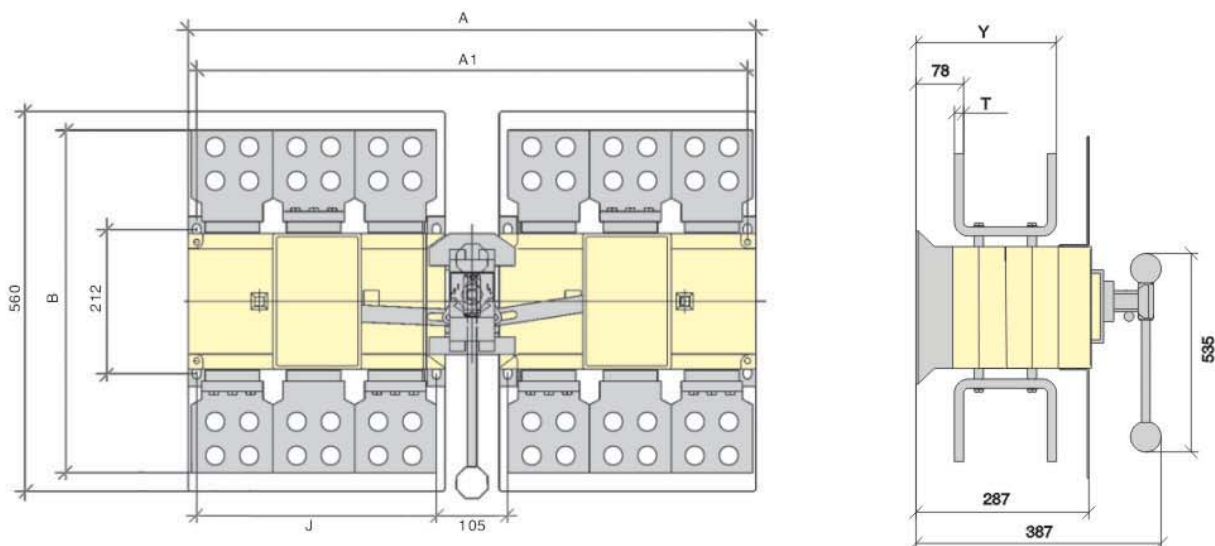
SIWOG1(GL)-1000~1600/Z2J
柜外操作 External operation



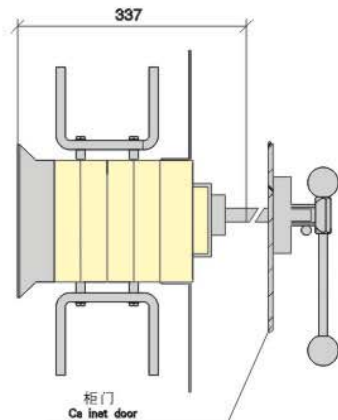
型号规格 Specification	外形尺寸与安装尺寸 Outline Dimension and Installation Dimension																	
Ie	A	A1	B	C	D	D1	E	J	K	P	N	R	S	U	ΦX	T	Y	
SIWOG1(GL)-160/3Z2 (125A, 160A)	319	299	135	170	24	124	100	120	65	36	59	20	25	115	9	3.5	30	
SIWOG1(GL)-160/4Z2 (125A, 160A)	379	359	135	170	24	124	100	150	65	36	59	20	25	115	9	3.5	30	
SIWOG1(GL)-250/3Z2 (200A, 250A)	405	385	170	173	30	131	104	160	90	50	65	25	30	140	11	3.5	34	
SIWOG1(GL)-250/4Z2 (200A, 250A)	505	485	170	173	30	131	104	210	90	50	65	25	30	140	11	3.5	34	
SIWOG1(GL)-400/3Z2 (315A, 400A)	535	515	240	220	55	167	139	210	140	65	95	32	40	206	11	5	47	
SIWOG1(GL)-400/4Z2 (315A, 400A)	655	635	240	220	55	167	139	270	140	65	95	32	40	206	11	5	47	
SIWOG1(GL)-630/3Z2 (500A, 630A)	535	515	260	220	55	167	139	210	140	65	95	40	50	220	12	6	48	
SIWOG1(GL)-630/4Z2 (500A, 630A)	655	635	260	220	55	167	139	270	140	65	95	40	50	220	12	6	48	
SIWOG1(GL)-1000/3Z2	836	811	312	265		200	150	353	175		105		56			8	50	
SIWOG1(GL)-1000/4Z2	1064	1039	312	265		200	150	467	175		105		56			8	50	
SIWOG1(GL)-1250/3Z2	836	811	338	265		200	150	353	175		105		69			8	50	
SIWOG1(GL)-1250/4Z2	1064	1039	338	265		200	150	467	175		105		69			8	50	
SIWOG1(GL)-1600/3Z2	836	811	338	265		200	150	353	175		105		69			8	50	
SIWOG1(GL)-1600/4Z2	1064	1039	338	265		200	150	467	175		105		69			8	50	

SIWOG1(GL)-2500 ~ 3150/Z2外形与安装尺寸

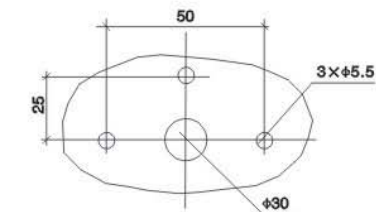
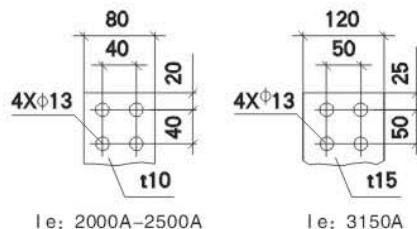
Outline and installation dimensions of SIWOG1(GL)-2500~3150/Z2



SIWOG1(GL)-3150/Z2
柜内操作 Internal operation



SIWOG1(GL)-3150/Z2J
柜外操作 External operation



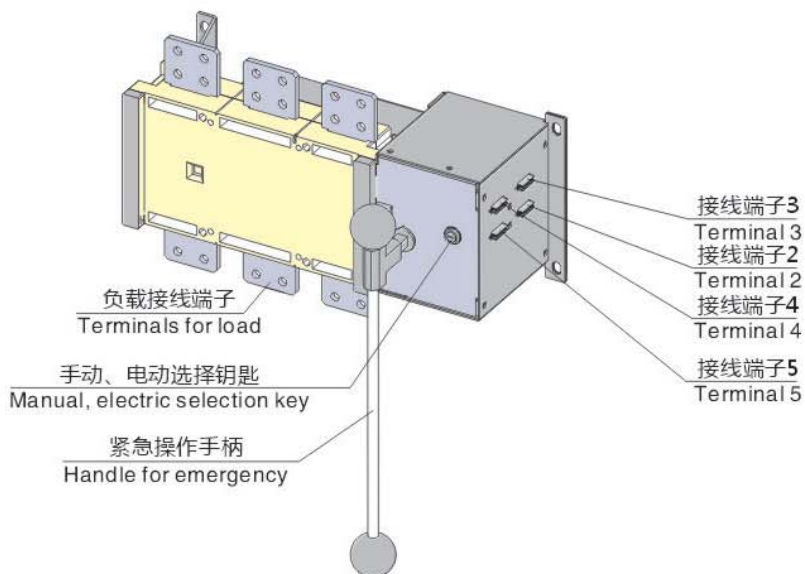
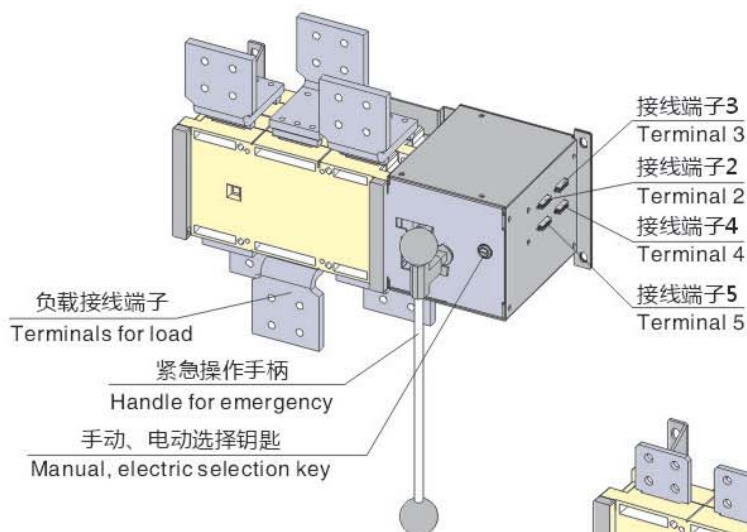
柜外面板座安装尺寸
Installation dimension of external plate base

规格 Specification	外形尺寸与安装尺寸 Outline Dimension and Installation Dimension					
Ie	A	A1	B	J	S	Y
SIWOG1(GL)-2000A/3Z2	836	811	455	353	128	226
SIWOG1(GL)-2000A/4Z2	1064	1039	455	467	128	226
SIWOG1(GL)-2500A/3Z2	836	811	455	353	128	226
SIWOG1(GL)-2500A/4Z2	1064	1039	455	467	128	226
SIWOG1(GL)-3150A/3Z2	836	811	505	353	153	230
SIWOG1(GL)-3150A/4Z2	1064	1039	505	467	153	230

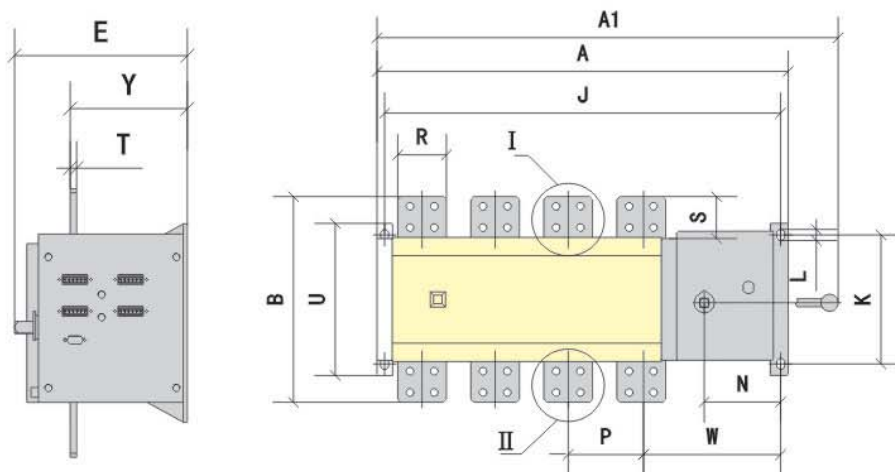
SIWOG1(GL)-160 ~ 3150/DC1电动隔离开关 SIWOG1(GL)-160 ~ 3150/DC1 motorized switch-disconnector

- SIWOG1(GL)-160 ~ 3150/DC1适用于低压电路接通与分断同时在零位状态具有安全隔离功能。
- 本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。
- 由钥匙开关选择操作方式。
- 开关在二个状态位置都可用一至三把锁锁住。
- 本开关结构紧凑、安装、操作简单，使用寿命长。
- 开关面板配装电源模拟指示灯。

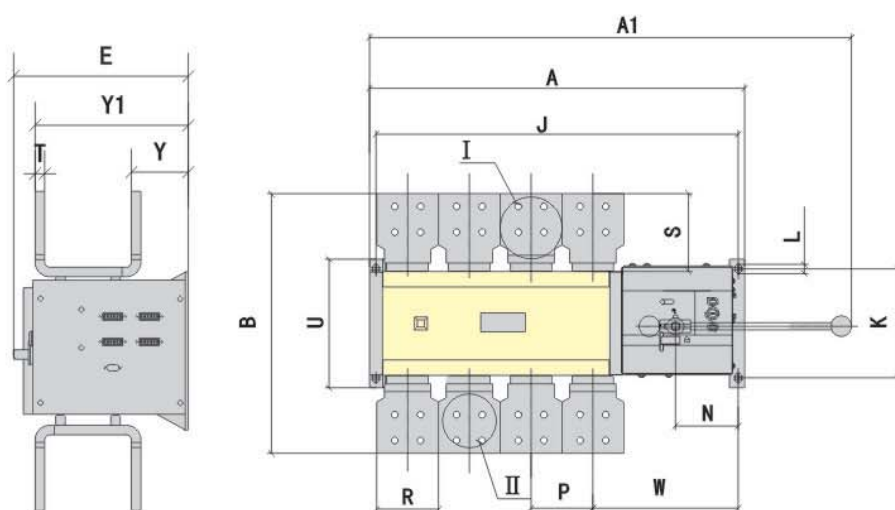
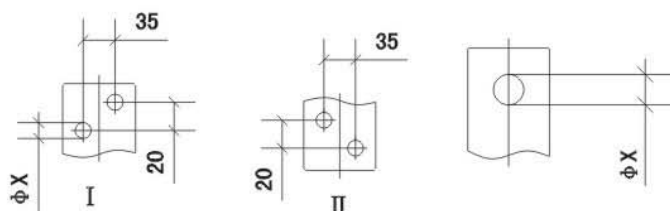
- SIWOG1(GL)-160 ~ 3150/DC1 are suitable for making and breaking of low voltage circuit and have the function of safety isolation on zero position.
- The switch integrates switch and logic control. Thus, it's not necessary to use controller. It truly achieves mechanical and electrical integration.
- Select operation mode by key switch.
- The switch can be locked by one, two, or three locks in two conditions.
- The switch has a compact structure, easy for installation and operation, long service life.
- Power simulative indicator light is installed on the plate of switch.



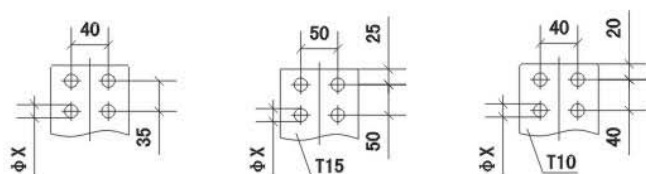
SIWOG1(GL)-160 ~ 3150/DC1 电动隔离开关外型与安装尺寸 Outline and installation dimension of SIWOG1(GL)-160 ~ 3150/DC1 motorized switch-disconnector



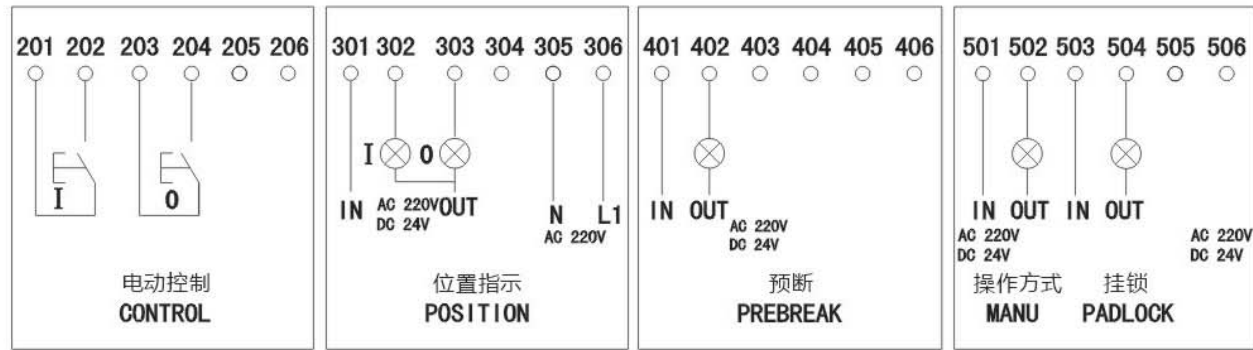
SIWOG1(GL)-160~1600/3(4)DC1
电动操作 Electric operation



SIWOG1(GL)-2000~3150/3(4)DC1
电动操作 Electric operation



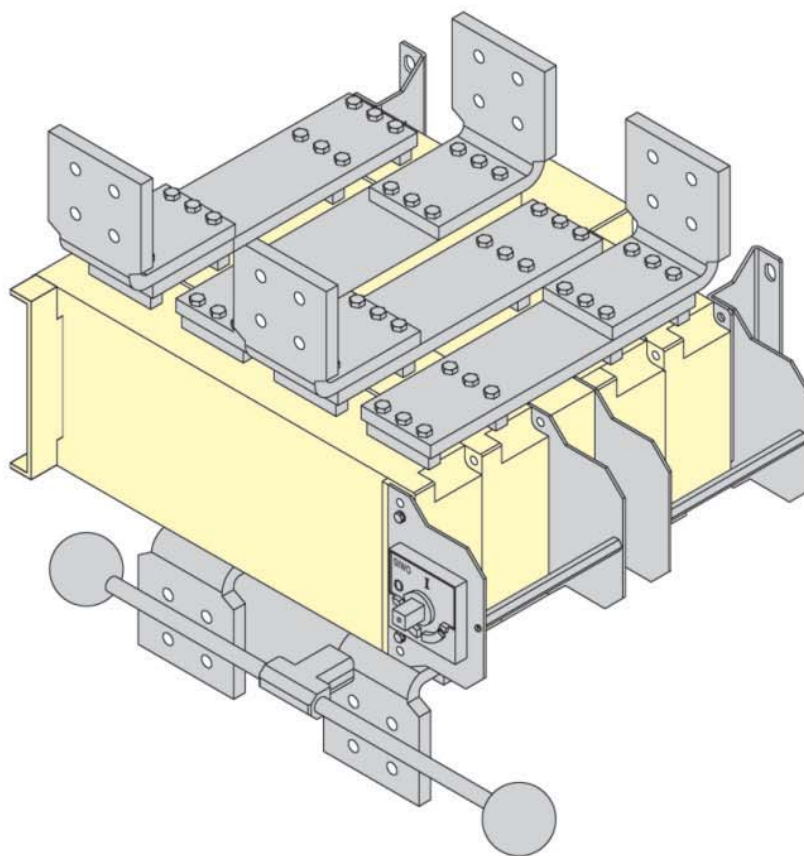
SIWOG1(GL)-160~3150/DC1电动转换隔离开关二次接线与安装尺寸图 Secondary wiring and installation dimension diagram of SIWOG1(GL)- 160~3150/DC1 motorized switch-disconnector



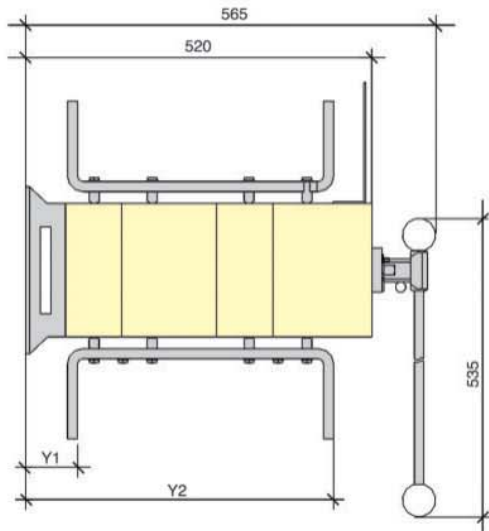
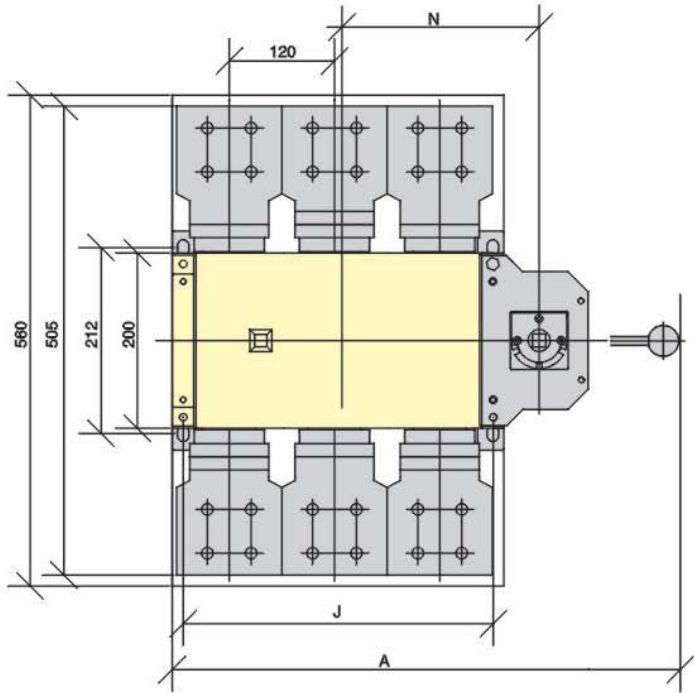
产品型号 Product model	A1	A	B	E	J	K	L	N	P	R	S	T	U	W	φX	Y	Y1
SIWOG1(GL)-160/3DC1(125A,160A)	377	289	135	160	268	108	7	92	36	20	25	3.5	134	162	9	102	/
SIWOG1(GL)-160/4DC1(125A,160A)	407	319	135	160	298	108	7	92	36	20	25	3.5	134	157	9	102	/
SIWOG1(GL)-250/3DC1(200A,250A)	417	329	170	160	308	108	7	92	50	25	30	3.5	134	168	11	104	/
SIWOG1(GL)-250/4DC1(200A,250A)	467	379	170	160	358	108	7	92	50	25	30	3.5	134	165	11	104	/
SIWOG1(GL)-400/3DC1(315A,400A)	453	385	240	175	364	180	11	112	65	32	40	5	208	197	11	106	/
SIWOG1(GL)-400/4DC1(315A,400A)	513	445	240	175	424	180	11	112	65	32	40	5	208	192	11	106	/
SIWOG1(GL)-630/3DC1(500A,630A)	453	385	260	175	364	180	11	112	65	40	50	6	208	197	12	107	/
SIWOG1(GL)-630/3DC1(500A,630A)	513	445	260	175	424	180	11	112	65	40	50	6	208	192	12	107	/
SIWOG1(GL)-1000/3DC1	889	562	312	218	537	212	18	126	120	60	56	8	250	236	12.5	147	/
SIWOG1(GL)-1000/4DC1	1003	677	312	218	650	212	18	126	120	60	56	8	250	229	12.5	147	/
SIWOG1(GL)-1250/3DC1	889	562	338	218	537	212	18	126	120	80	69	8	250	236	12.5	147	/
SIWOG1(GL)-1250/4DC1	1033	677	338	218	650	212	18	126	120	80	69	8	250	229	12.5	147	/
SIWOG1(GL)-1600/3DC1	889	562	338	218	537	212	18	126	120	80	69	8	250	236	12.5	147	/
SIWOG1(GL)-1600/4DC1	1003	677	338	218	650	212	18	126	120	80	69	8	250	229	12.5	147	/
SIWOG1(GL)-2500/3DC1(2000A,2500A)	889	615	455	278	590	212	18	122	120	80	127	10	250	290	13	91	238
SIWOG1(GL)-2500/4DC1(2000A,2500A)	1003	729	455	278	704	212	18	122	120	80	127	10	250	283	13	91	238
SIWOG1(GL)-3150/3DC1	889	615	505	278	590	212	18	122	120	120	152	15	250	290	13	91	243
SIWOG1(GL)-3150/4DC1	1003	729	505	278	704	212	18	122	120	120	152	15	250	283	13	91	243

SIWOG1(GL)-4000隔离器 SIWOG1(GL)-4000 disconnecter

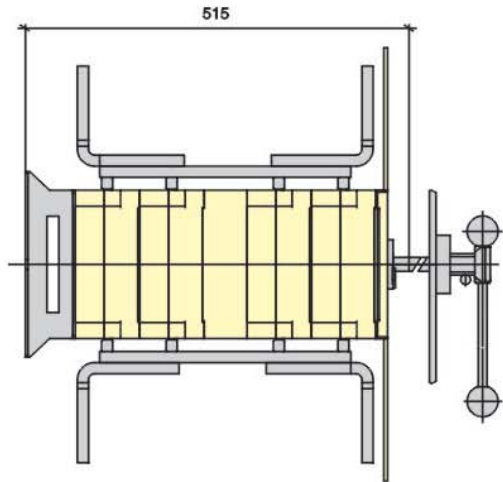
- SIWOG1(GL)-4000隔离器适用于电路的安全隔离。
 - 正面设有标记窗口指示触头通断状态。
 - 可根据需求配装辅助触点。
- SIWOG1(GL)-4000 disconnecter is suitable for safe isolation of circuit.
 - Mark window on the front side indicates making and breaking conditions of the contacts.
 - Auxiliary contacts can be installed according to the demand.



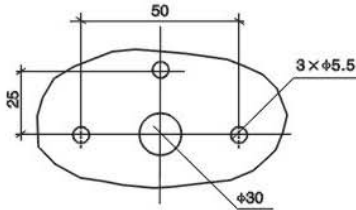
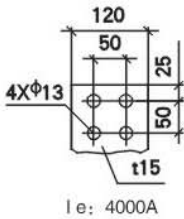
SIWOG1(GL)-4000外形与安装尺寸 Outline and installation dimensions of SIWOG1(GL)-4000



SIWOG1(GL)-4000
柜内操作 Internal operation



SIWOG1(GL)-4000
柜外操作 External operation



柜外面板座安装尺寸
Installation dimension of external plate base

规格 Specification	外形尺寸与安装尺寸 Outline Dimension and Installation Dimension					
Ie	A	B	J	N	S	Y1
SIWOG1(GL)-4000A/3	883	353	353	229	78	463
SIWOG1(GL)-4000A/4	997	467	467	286	78	463

实施的功能：

Executive Functions:

① 电源转换

① Power supply changeover

由主电源转换至应急备用电源。

Main power supply changeover to standby power supply.

② 转换、反向

② Changeover, reversion

两个负载设备的转换(应急备用电动机)。

Changeover between two load equipments (Emergency standby motor).

经两相互换实现反向。

Realize reversion through two phases interchange.

③ 旁路

③ Bypass

通过完全分流使设备与上游和下游隔离(一次操作完成)。

Equipments can be isolated from upstream and downstream currents via complete bypass. (Accomplish through an operation).

④ 断开+接地

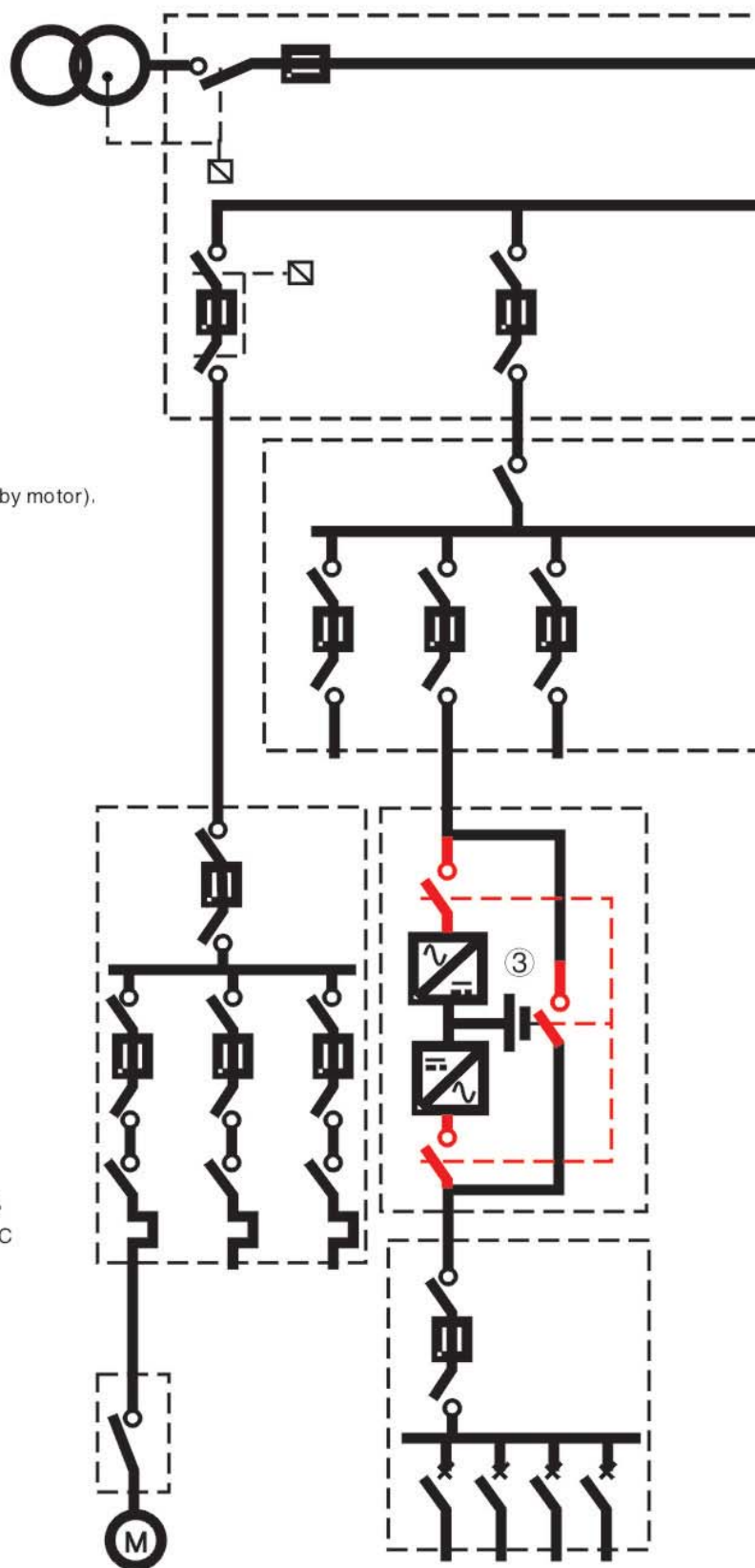
④ Cut-off+grounding

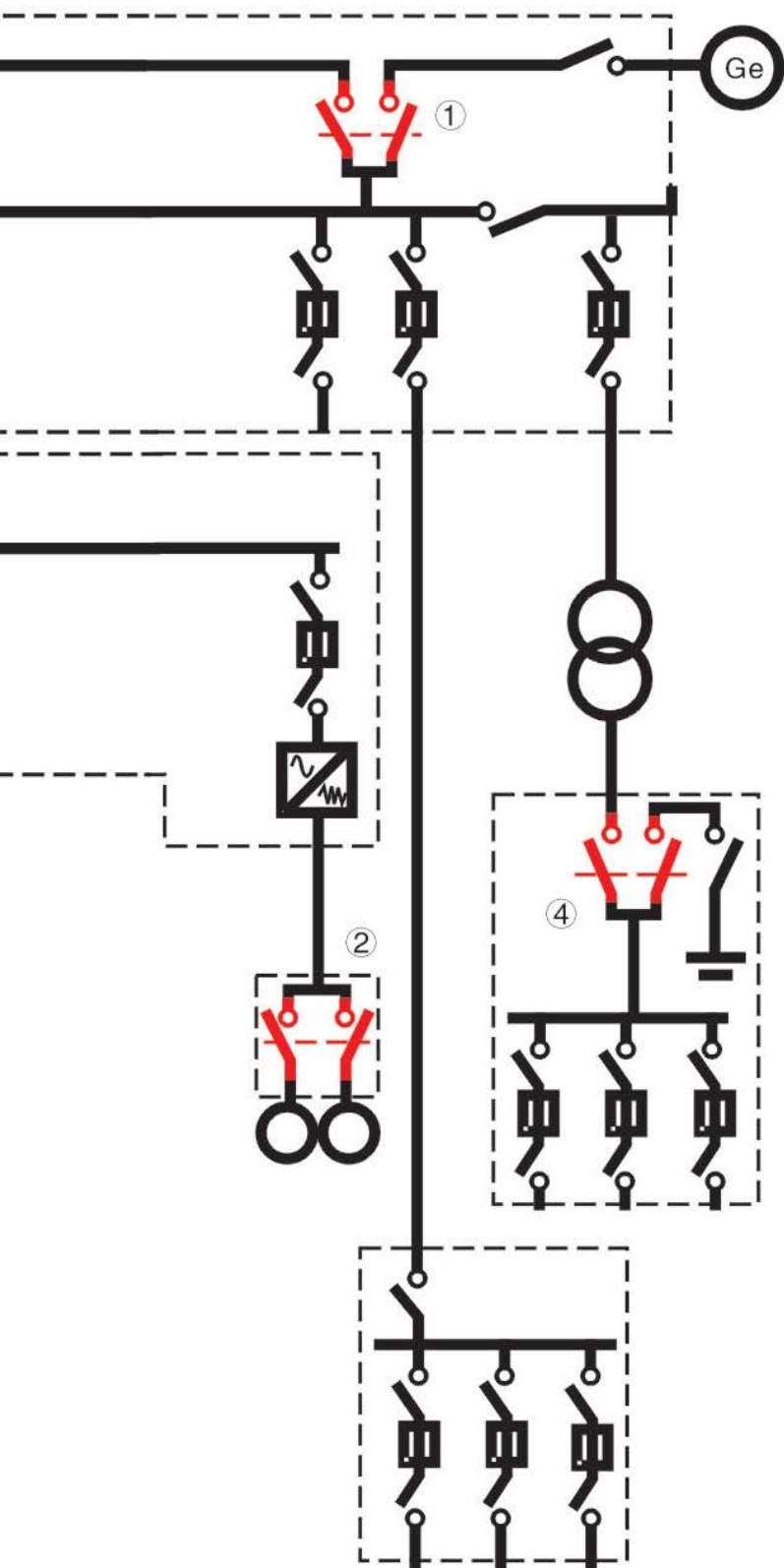
通过接地和短路一次操作完成隔离 ($U_e > AC$)。

Accomplish isolation through an operation of grounding and short-circuit (*) ($U_e > AC$).

注:一般的断开功能符合IEC 60947-3和GB 14048.3标准。

Note: General cut-off function conforms to the standards of IEC 60947-3 and GB 14048.3.





2013

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