

For the content contained in this manual, Gandian Lightning Protection has the final right to interpret. For more detailed information, please inquire; our company's technical engineers will serve you wholeheartedly. Because of the continuous innovation of product technology, please refer to the actual product or the manual; Subject to change without notice.

Use environmentally friendly materials



GA&DA

Dual Power Automatic Transfer Switch Solutions Catalogue

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GANDIAN LANGYONG

有品质才有市场，有改进才有进步，有创新才有发展

坚守专业与责任，做行业的领跑者

*Stick to professionalism and responsibility
and be the leader of the industry*



公司简介 COMPANY PROFILE

Gandian Lightning Protection Electric Co., Ltd. is a modern high-tech enterprise dedicated to the design, research and development, production, sales and service of lightning safety protection equipment. The company is located in the economic and technological development zone of Jiujiang City, the only international trade port city in Jiangxi Province. The total plant construction area is 39,960 square meters, the factory covers an area of 29,970.16 square meters, and there are more than 200 employees.

Through continuous reform and innovation, the company develops its own brand, showing a new look of internationalization, modernization and informationization. Break through high-end industries with focus, upgrade traditional industries with automation, actively build automated electrical equipment bases, gather a team of highly skilled experts, strengthen the simultaneous development of advanced equipment industry and modern service industry, have a variety of fully functional product performance testing laboratories, 8/20us 150kA compatible with 10/350us 25kA simulated lightning laboratory, 10/350us 120kA simulated lightning laboratory, 1.2/50us combined wave generator, 1.2/50us voltage generator, gap, discharge tube detector, thermal stability test system, lightning online monitoring system, intelligent lightning protection detection system, SPD backup protector power frequency current test, lightning non-trip current test system and a series of advanced detection equipment, to ensure the stability and innovation of our products!

Independently develop a number of advanced production and processing automatic assembly lines, which integrate automatic glue filling, automatic soldering, automatic laminating, pad printing, laser marking, automatic detection and uploading of data, automatic sealing and packaging and other automatic equipment to ensure each product consistency, fully guarantee efficient production and high-quality management, with unified planning of logistics, production, life and other service facilities, and strive to build a first-class intelligent production industrial base with international competitiveness.

The company took the lead in passing ISO9001 quality system certification, ISO14001 environmental management system certification, OHSAS18001 occupational health and safety management system, COC certification, European Community CE certification, TUV Rheinland certification, CB certification, Rohs certification, and established a system from software and hardware. A strict quality management system can meet the various needs of new and old customers with the fastest speed, the best products, and the best services; sales points are set up throughout the country, and the sales scope radiates to all provinces in China, Southeast Asia, South America, and Europe, Africa and many other places, the service scope is all over the country, and the high-quality products and good service have won the favor of the majority of customers.

The main products are power surge protector series, smart lightning protection series, smart surge protector series, smart lightning protection box series, signal lightning protection series, fuses, circuit breakers, photovoltaic connectors, transfer switches, photovoltaic cables, etc. The products are mainly used in the construction of urban and rural power grids, urban infrastructure construction, factory construction stages, major domestic and foreign oil fields, petrochemical companies, shipbuilding industry, offshore oil drilling platforms, military power construction, photovoltaic power generation, wind power generation, coal, petroleum, chemical, industrial and mining, hospitals, airports and other fields.

The company adheres to the corporate culture of "integrity first, happiness in the world, sharing and win-win", adheres to the spirit of "pragmatism, hard work, and dedication", and has the dream of "revitalizing national industry and assuming social morality". With the principle of trust, persist in realizing the new situation of "sustainable development, cooperative innovation", with the attitude of "professional, dedicated, rigorous, and eager to learn", always practice the glorious mission of "based on Rael Dunwei and build a world brand together".

Stamping and injection molding area

The stamping and injection molding area has 6800 square meters, 30 injection molding machines, 7 45T stamping machines, 5 35T stamping machines, 8 25 stamping machines, and the remaining 18 stamping machines of each tonnage.

The comprehensive production area has 8,100 square meters, dozens of production lines for various products, a simulation laboratory for lightning strikes, and various lightning protection products test instruments, etc.



Laboratory And Testing



Lab 1



Lab 2



Lab 3



R&D Center No. 1



R&D Center No. 2



Glow Wire Tester



SPD thermal stability test system



Programmable salt spray test machine



Simulated lightning test platform



Programmable constant temperature and humidity test chamber



1.2/50μs voltage wave generator

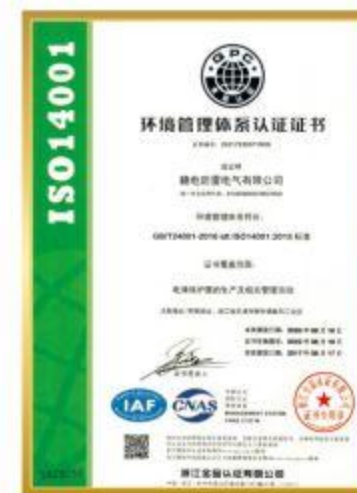


Coupling and decoupling online cabinet



1.2/50μs combined wave generator

Certificate And International Patents



ISO14001



ISO9001



OHSAS18001



CB



CQC



RoHS



TUV-CE



TUV



CE

GDS-63/125 Dual Power Transfer Switch (CB Class)

GDS-63/125 Micro-Breaking Dual Power Transfer Switch is suitable for AC 50/60Hz dual power supply system with rated operating voltage of 400V and rated operating current from 16~125A. Optional transfer of dual power can be made according to requirement.



Product Performance

Making and Breaking Capacity

Utilization Category	Making and Breaking Test Condition					
	I/le	U/Up	CosΦ	Electrical time(s)	Duration of cycle(min)	Number of operating cycles
Ac-B33	6.0	1.05	0.5	0.05	≤5	12

Note: AC-B33 motor load or combined load including motor and resistance load under infrequent operation condition

Application

- Complete protective functions, including short circuit, overload, open phase and loss-of-voltage protection.
- Reliable remote double-break with EPS fire protection power supply interface DC12-24V
- Noiseless, energy saving, simple installation, easy operation, reliable and stable performance

Product Performance

- Rated short circuit breaking capacity: 3/6kA
- Rated short circuit making capacity: 3/6kA
- transfer time: ≤3S
- Control voltage of transfer switch: AC230V
- Mechanical life of transfer switch(transfer of normal and reserve power): 3000 times, electric life: 1500 times
- Rated insulation voltage: U=500V
- Rated working current: 10A,16A,20A,32A,40A,50A,63A,80A,100A,125A

Order Code

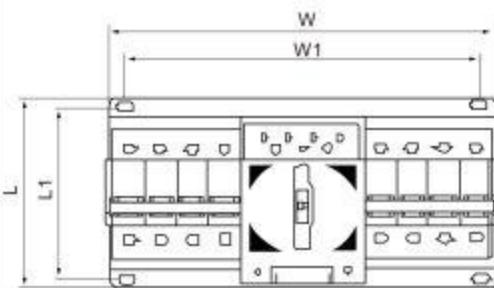
Type	GDS-63/10A-2P	GDS-63/10A-4P	GDS-63/16A-2P	GDS-63/16A-4P	GDS-63/20A-2P	GDS-63/20A-4P	GDS-63/32A-2P
Order Code	275001	275002	275003	275004	275005	275006	275007
Type	GDS-63/32A-4P	GDS-63/40A-2P	GDS-63/40A-4P	GDS-63/50A-2P	GDS-63/50A-4P	GDS-63/63A-2P	GDS-63/63A-4P
Order Code	275008	275009	275010	275011	275012	275013	275014
Type	GDS-125/80A-2P	GDS-125/80A-4P	GDS-125/100A-2P	GDS-125/100A-4P	GDS-125/125A-2P	GDS-125/125A-4P	
Order Code	275015	275016	275017	275018	275019	275020	

GDS-63/125 Dual Power Transfer Switch (CB Class)

GDS-63/125 Micro-Breaking Dual Power Transfer Switch is suitable for AC 50/60Hz dual power supply system with rated operating voltage of 400V and rated operating current from 16~125A. Optional transfer of dual power can be made according to requirement.



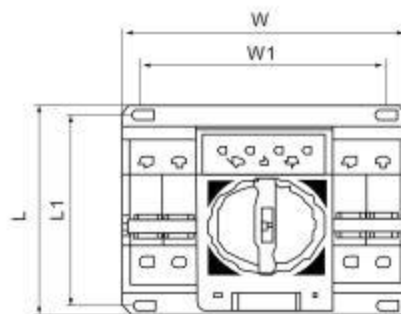
Application



Normal ON

Reserve ON

4-Poles overall dimensions



Normal ON

Reserve ON

2-Poles overall dimensions

Dimensions (mm)

Type	W	W1	L	L1	H
GDS-63/4P	230	200	132	120	122

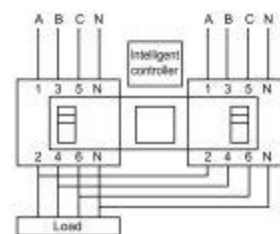
Type	W	W1	L	L1	H
GDS-125/4P	230	200	132	120	122

Dimensions (mm)

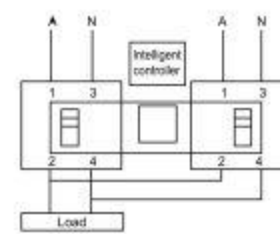
Type	W	W1	L	L1	H
GDS-63/2P	150	135	132	120	122

Type	W	W1	L	L1	H
GDS-125/2P	150	135	132	120	122

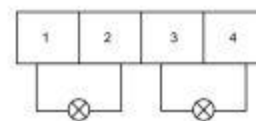
Installation



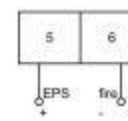
4-poles wiring diagram



2-poles wiring diagram



Normal ON (AC220V) Reserve ON



DC12-24V

External power ON indication and fire protection power wiring diagram

GDS3-100 Dual Power Transfer Switch(PC Class)

● GDS3-100 Micro-Breaking Dual Power Transfer Switch is suitable for AC 50/60Hz dual power supply system with rated operating voltage of 400V and rated operating current from 16~100A. Optional transfer of dual power can be made according to requirement.,



Product Performance

Type	GDS3-100
Shell Frame Current	100A
Rated Current In(A)	10A, 16A, 25A, 32A, 40A, 50A, 63A, 80A, 100A
Rated Operating Voltage Ue	2P AC 230V 50HZ/4P AC 400V 50HZ
Rated Insulation Voltage Ui	800V
Rated Impulse Withstand Voltage Uimp	8kV
Switching Poles	2P, 3P, 4P,
Use Category	AC-33iB
Electrical Level	PC Class
Rated short circuit breaking capacity	8kA

Application

- Complete protective functions, including short circuit, overload, open phase and loss-of-voltage protection.
- Reliable remote double-break with EPS fire protection power supply interface DC12-24V
- Noiseless, energy saving, simple installation, easy operation, reliable and stable performance

Order Code

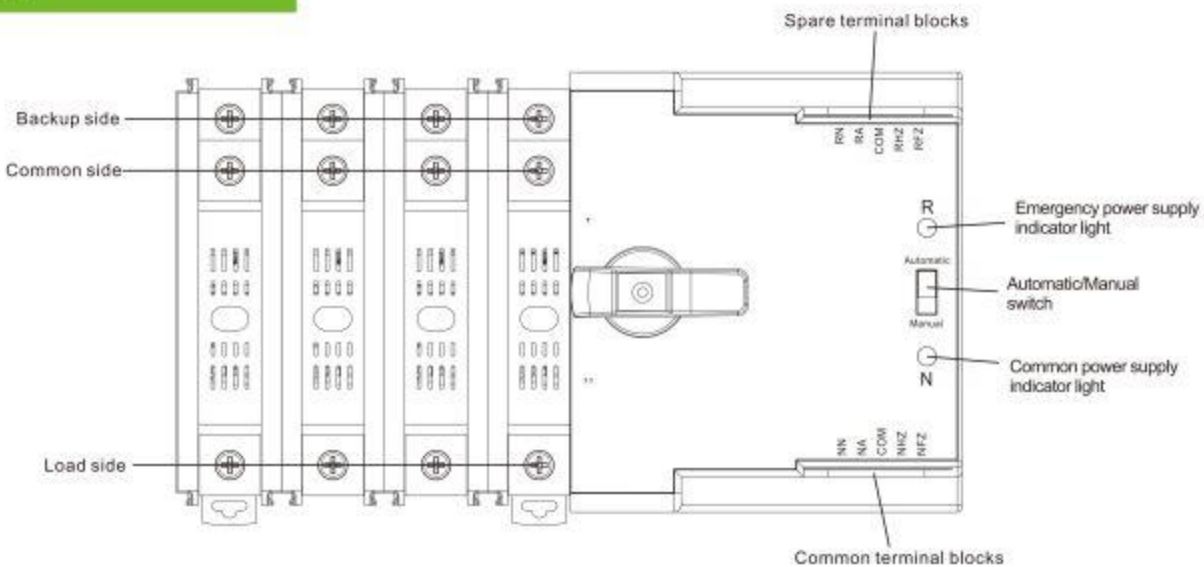
Type	GDS3-100/10A-2P	GDS3-100/10A-4P	GDS3-100/16A-2P	GDS3-100/16A-4P	GDS3-100/20A-2P	GDS3-100/20A-4P
Order Code	275021	275022	275023	275024	275025	275026
Type	GDS3-100/25A-2P	GDS3-100/25A-4P	GDS3-100/32A-2P	GDS3-100/32A-4P	GDS3-100/40A-2P	GDS3-100/40A-4P
Order Code	275027	275028	275029	275030	275031	275032
Type	GDS3-100/50A-2P	GDS3-100/50A-4P	GDS3-100/63A-2P	GDS3-100/63A-4P	GDS3-100/80A-2P	GDS3-100/80A-4P
Order Code	275033	275034	275035	275036	275037	275038
Type	GDS3-100/100A-2P	GDS3-100/100A-4P				
Order Code	275039	275040				

GDS3-100 Dual Power Transfer Switch (PC Class)

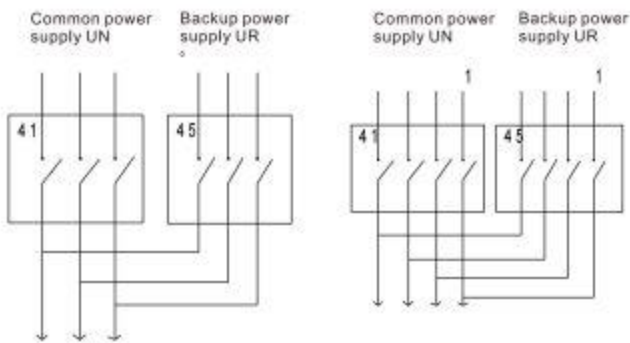
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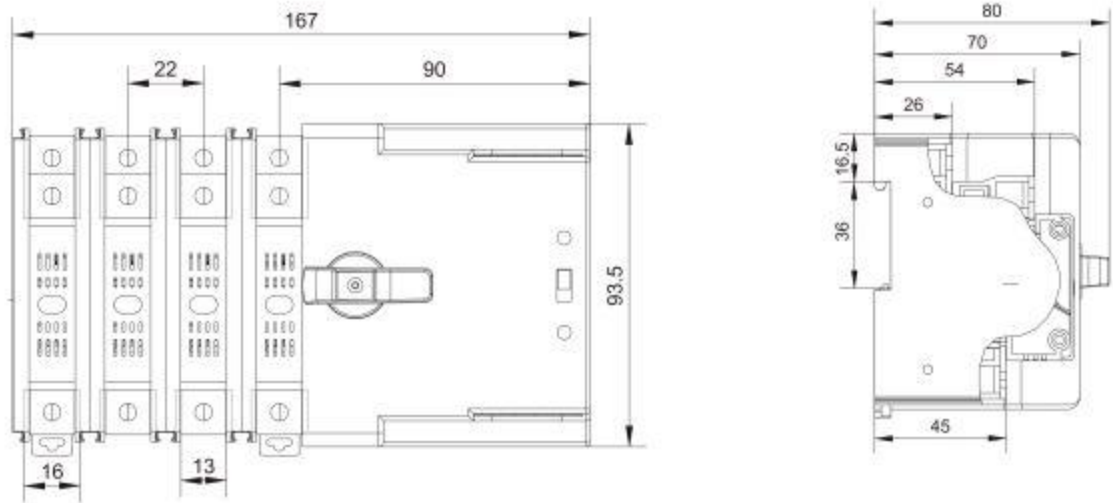
Application



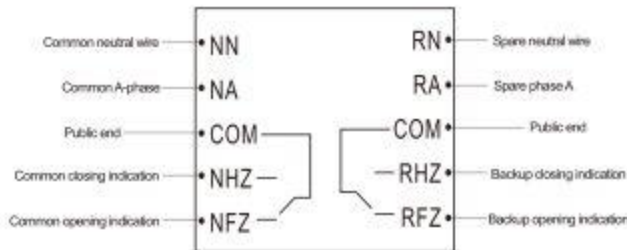
Product Structure Description



Size



External terminal description



GDSM Moulded Case Dual Power Transfer Switch(CB Class)

GDSM series automatic transfer switch are mainly composed of power conversion actuator, circuit breaker and controller. This dual power switch with automatic, manual, power indicator, normal switch indicator, ready switch indicator working state.



- When installing wiring, normal power N should be access to normal power supply circuit breaker QN,
- 4 poles :QN and QR's 1, 3, 5 are three-phase (A, B, C) into line terminals, 2, 4, 6 are three-phase outgoing line terminals, 7 is zero line (N) into line terminal, 8 is zero line outgoing line terminal.
- If the use of 3 poles circuit breaker, the normal power N's zero line (NN) and ready power R's zero line (NR) must be respectively received on 3 poles special connection zero line terminal.
- Do not let the local controller to forget to connect the signal line, touch off or short circuit and so on, otherwise can not work.

Product Performance

Type	GDSM-63	GDSM-125	GDSM-250	GDSM-400	GDSM-630	
Standard						
Electrical Characteristic Parameter						
Shell Frame Current	63A	125A	250A	400A	630A	
Rated Current In(A)	10,16,20,25,32,40,50,63,	25,32,40,50,63,80,100,125,	100,125,140,160,180,200,225,250,	225,250,315,350,400,	400,500,630,	
Rated Operating Voltage Ue	AC 400V 50HZ					
Rated Insulation Voltage Ui	AC500V	AC800V	AC800V	AC800V	AC800V	
Rated Impulse Withstand Voltage Uimp	8kV					
Switching Poles	3P,4P,					
Life	Times	6000	6000	6000	4000	3000
Use Category	AC-33iB					
Electrical Level	CB Class					
Protection Level	IP30					
Control Characteristic Parameter						
Rated Control Supply Voltage Us	AC 230V 50HZ					
Switching Time	03s	03s	03s	04s	04s	

Order Code

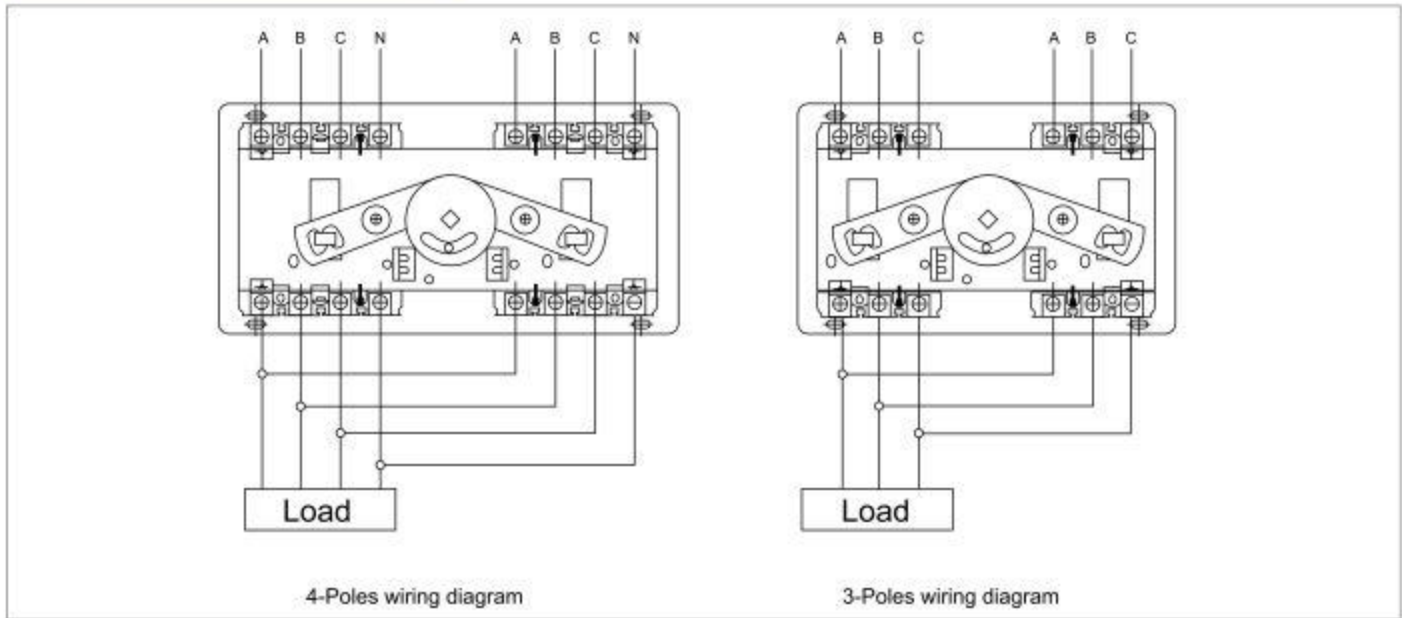
Type	GDSM-63/10-63-3P	GDSM-63/10-63-4P	GDSM-125/25-125-3P	GDSM-125/25-125-4P
Order Code	10A-63A:275041-275048	10A-63A:275049-275056	25A-125A:275057-275064	25A-125A:275065-275072
Type	GDSM-250/100-250-3P	GDSM-250/100-250-4P	GDSM-400/225-400-3P	GDSM-400/225-400-4P
Order Code	100A-250A:275073-275080	100A-250A:275081-275088	225A-400A:275089-275093	225A-400A:275094-275098
Type	GDSM-630/400-630-3P	GDSM-630/400-630-4P	/	/
Order Code	400A-630A:275099-275101	400A-630A:275102-275104	/	/

GDSM Moulded Case Dual Power Transfer Switch(CB Class)

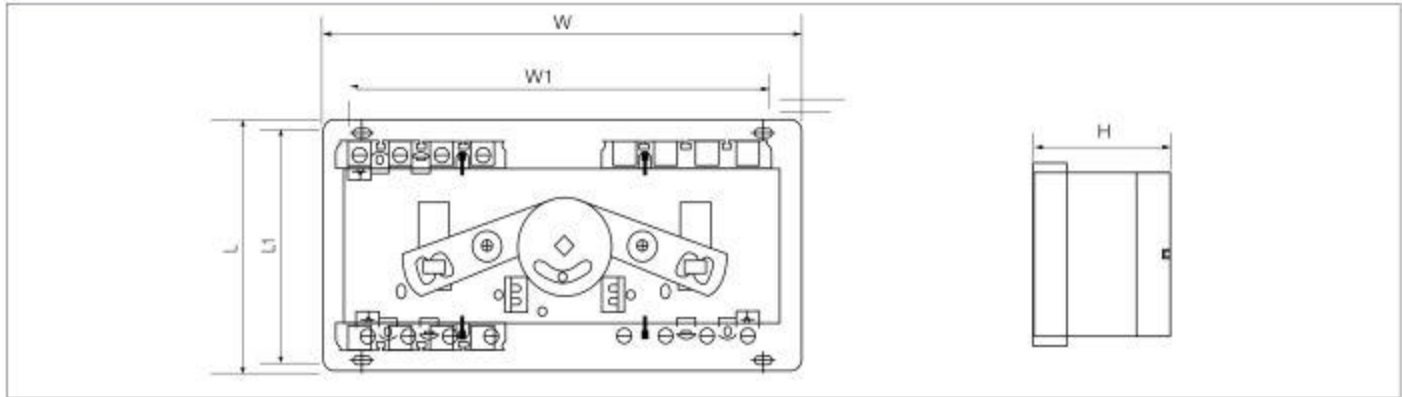
GDSM series automatic transfer switch are mainly composed of power conversion actuator, circuit breaker and controller. This dual power switch with automatic, manual, power indicator, normal switch indicator, ready switch indicator working state.



Application



Size

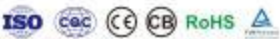


Dimensions (mm)

Type	W	W1	L	L1	H
GDSM-63/3P	290	255	240	220	135
GDSM-63/4P	290	255	240	220	135
GDSM-125/3P	290	255	200	180	165
GDSM-125/4P	320	295	200	180	180
GDSM-250/3P	330	300	215	193	190
GDSM-250/4P	365	340	215	193	210
GDSM-400/3P	455	408	328	305	240
GDSM-400/4P	510	470	328	305	240
GDSM-630/3P	535	490	345	323	240
GDSM-630/4P	590	550	345	323	240

GDG Automatic Transfer Switch Equipment(PC Class)

● GDG series is a device integrated with the switching function and logic control, truly perform electromechanical integration function, suitable for operating in the distribution system of Ac50 Hz, rated voltage AC400V, widely used to shift between normal power and standby power or two loading equipment, or perform safe isolation and etc.



- Standard: IEC947-6-1 GB14048.11-2008;
- Rated working voltage (Ue): AC440V;
- Rated connecting capacity (A Rms): 10Ie;
- Rated breaking capacity (A Rms): 8Ie;
- Control supply voltage: DC24V, 48V, 110V, AC220V.

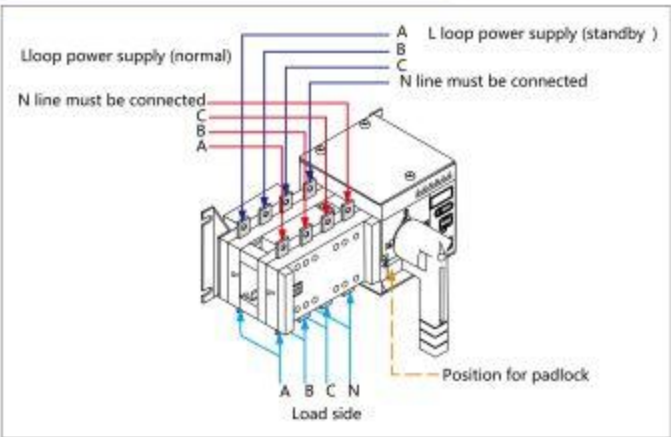
Product Performance

Rated heating current(A)		100	160	250	400	630	1000	1250	1600	2000	2500	3200
Rated insulation voltage Ui (V)		750					1000					
Rated impact withstand voltage Uimp (kV)		8					12					
Rated operating current Ie (A)	AC-31A	100	160	250	400	630	1000	1250	1600	2000	2500	3200
	AC-35A	100	160	250	400	630	1000	1250	1600	2000	2500	3200
	AC-33A	100	160	250	400	630	1000	1250	1600	2000	2500	3200
Rated short-time withstand current Icw(kA)		7	9		13			50				55
Rated limit short-circuit current(kA)		100			70		100	120		80		
Control supply voltage(V)		DC24V, 48V, 110V, AC220V										
Convenrsion time(S)		0.5	1	1.1	1.2		1.25			2.45		

Order Code

Type	GDG-100-4P	GDG-160-4P	GDG-250-4P
Order Code	275105	275106	275107
Type	GDG-400-4P	GDG-630-4P	GDG-1000-4P
Order Code	275108	275109	275110
Type	GDG-1250-4P	GDG-1600-4P	GDG-2000-4P
Order Code	275111	275112	275113
Type	GDG-2500-4P	GDG-3200-4P	/
Order Code	275114	275115	/

Wiring Diagram

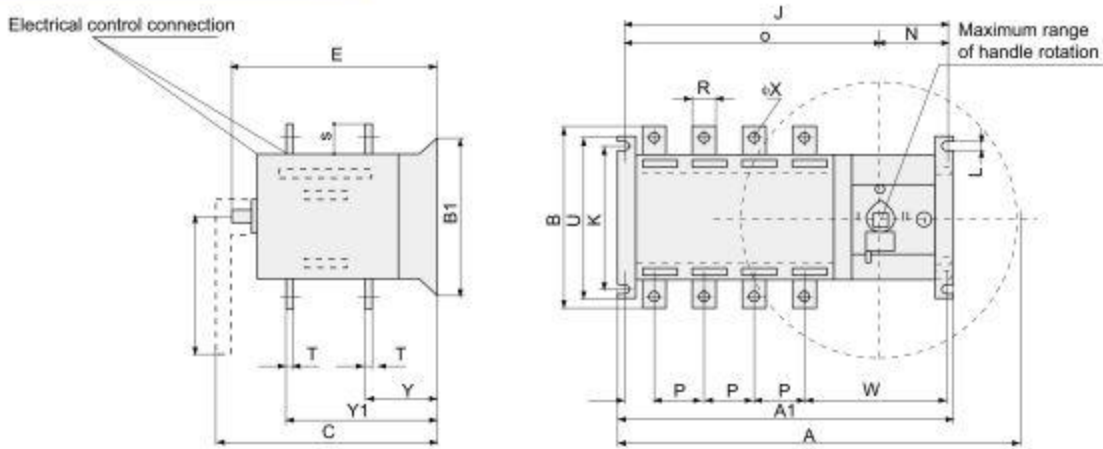


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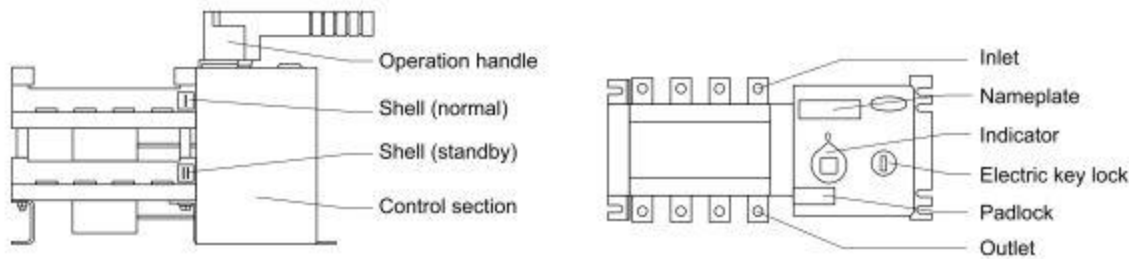


Dimension



Dimensions (mm)

In	Product size and installation size																		
	A	A1	B	B1	C	E	G	J	K	L	N	P	R	S	T	U	W	X	Y
100A/4	247	244	106	105	134	133	115	233.5	84	7	74.5	30	14	18	2.5	105	126	6	36
125A/4	322	300	135	128	230	189	145	284	102	7	91	36	20	25	3.5	127	158	9	55
160A/4	322	300	135	128	230	189	145	284	102	7	91	36	20	25	3.5	127	158	9	55
250A/4	406	362	170	142	261	208	145	343	102	7	91	50	25	30	3.5	142	168	11	60
400A/4	552	433	260	222	284	273	189	416	180	9	93	65	32	40	5	222	203	11	83
630A/4	552	433	260	222	284	273	189	416	180	9	93	65	40	50	6	222	203	12	83
800A/4	760	633	357	250	363	350	443	613	220	11	87	120	60	69	8	250	207	12.5	109
1000A/4	760	633	357	250	363	350	443	613	220	11	87	120	60	69	8	250	207	12.5	109
1250A/4	760	633	357	250	363	350	443	613	220	11	87	120	80	69	8	250	207	13	110
1600A/4	760	633	357	250	363	350	443	613	220	11	87	120	80	69	10	250	207	13	110
2000A	800	633	460		542		447	610			84.5		80	120	10				
2500A	800	633	460		542		447	610			84.5		80	125	15				
3200A	800	633	460		542		447	610			84.5		80	130	20				



- Electric key lock: Control switch internal control line power, when the electric lock is turned on, the switch can be fully automatic, operation control, strong set "0" operation; when the electric lock is closed, the switch can only be operated manually.
- Operating handle: When using the operating handle to operate manually, the electric lock must be closed.
- Padlock: Maintenance-only, that is, first use the operating handle to make the switch in the "0" position, and then pick up the padlock mechanism and padlock, can be overhauled. 4. Indicator: Indicates the working status of the switch.
- Indicator: Indicates the working status of the switch.