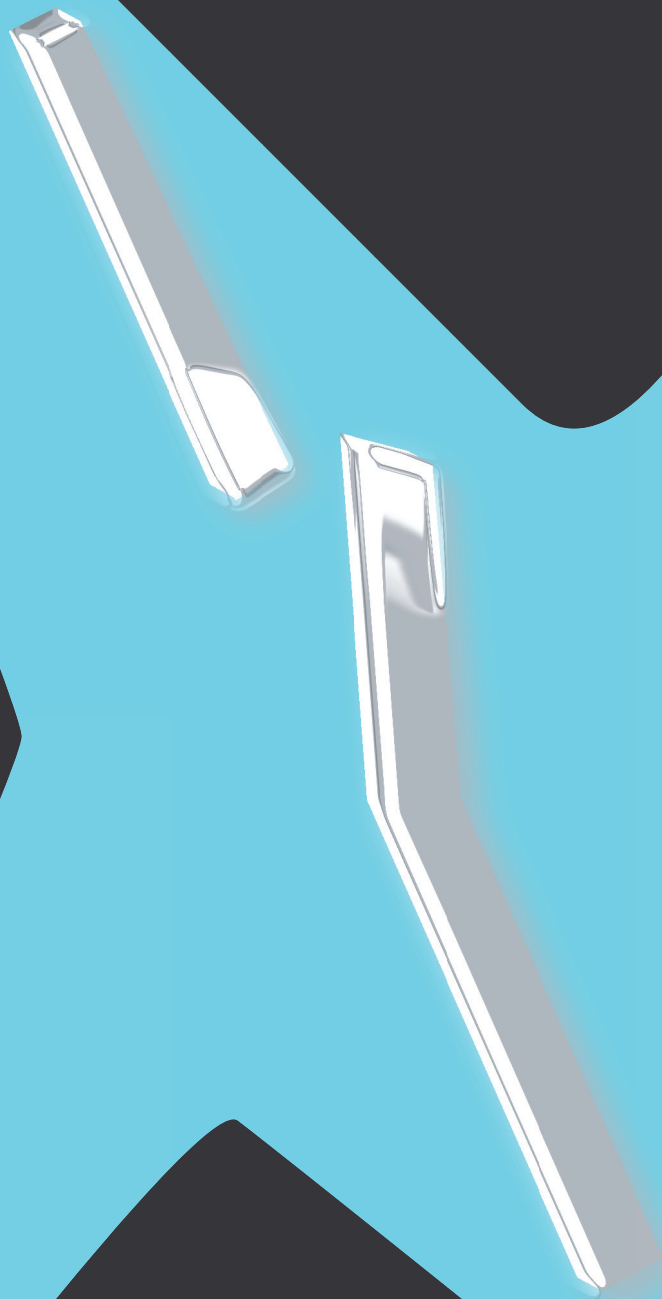


LOAD BREAK SWITCHES

On Load
From 40A to 4000A



On Load LBS 40A - 4000A, 3P or 4P

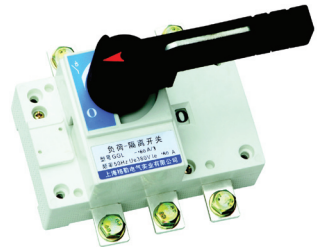
Conforming to IEC60947-3



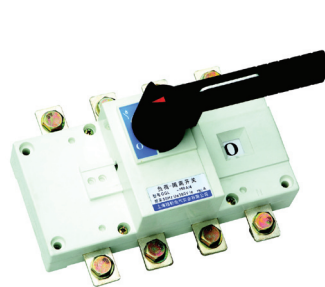
GGL-63A



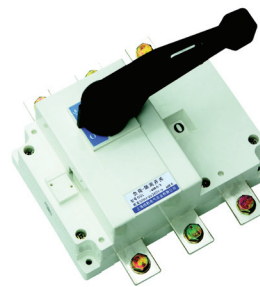
GGL-100A/4



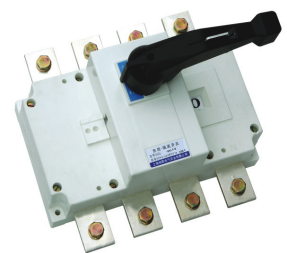
GGL-160A/3



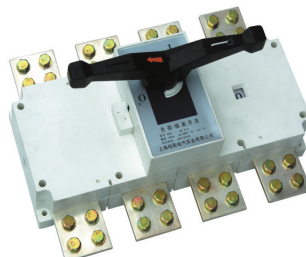
GGL-250A/4



GGL-400A/3



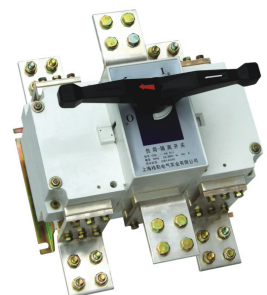
GGL-630A/4



GGL-1250A/4

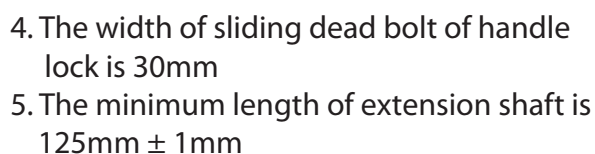
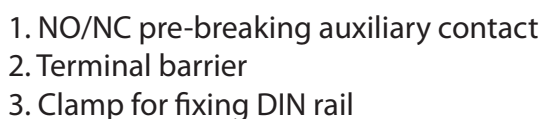


GGL-1600A/3

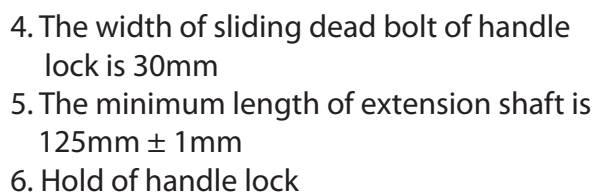
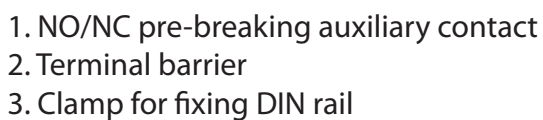


GGL-2500A/3

Front Operation Outside The Cabinet



Front Operation Outside The Cabinet





Instruction for ^{GQD}_{GGL} Series Load-Isolation switch

Operating Environment

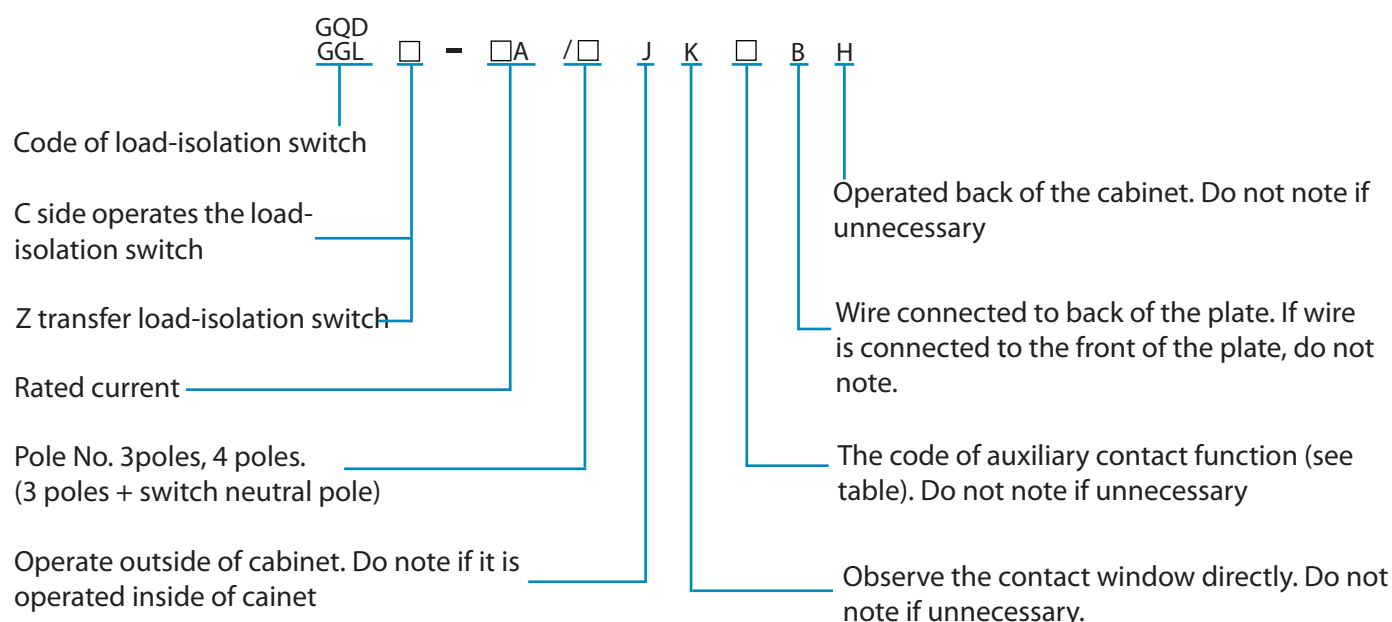
The ^{GQD}_{GGL} load-isolation switch can operate under the following conditions:

- Altitude lower than 2000m
- Temperature range of 5°C - 40°C
- Relative humidity not higher than 95%
- Without the presence of any explosive medium
- Without the presence of rain, snow or other undesirable weather conditions

Note: If the product is expected to be used in the environment where the temperature is higher than 40°C or lower than 5°C, it is the users responsibility to inform the manufacturer.

Application

AC 50Hz, rated voltage 660V, DC rated voltage 440V, rated current 1600A. It is used for making and breaking circuit infrequently.



TABLE

One NO and One NC	11	NO + NC
Two NO and Two NC	22	2NO + 2NC

Example for lecotype: Rated current 630A, include neutral pole transferring load-isolation switch, ^{GQD}_{GGL} Z-630A/4J for operating outside of cabinet

GQD-125~4000A Load-Isolation Switch



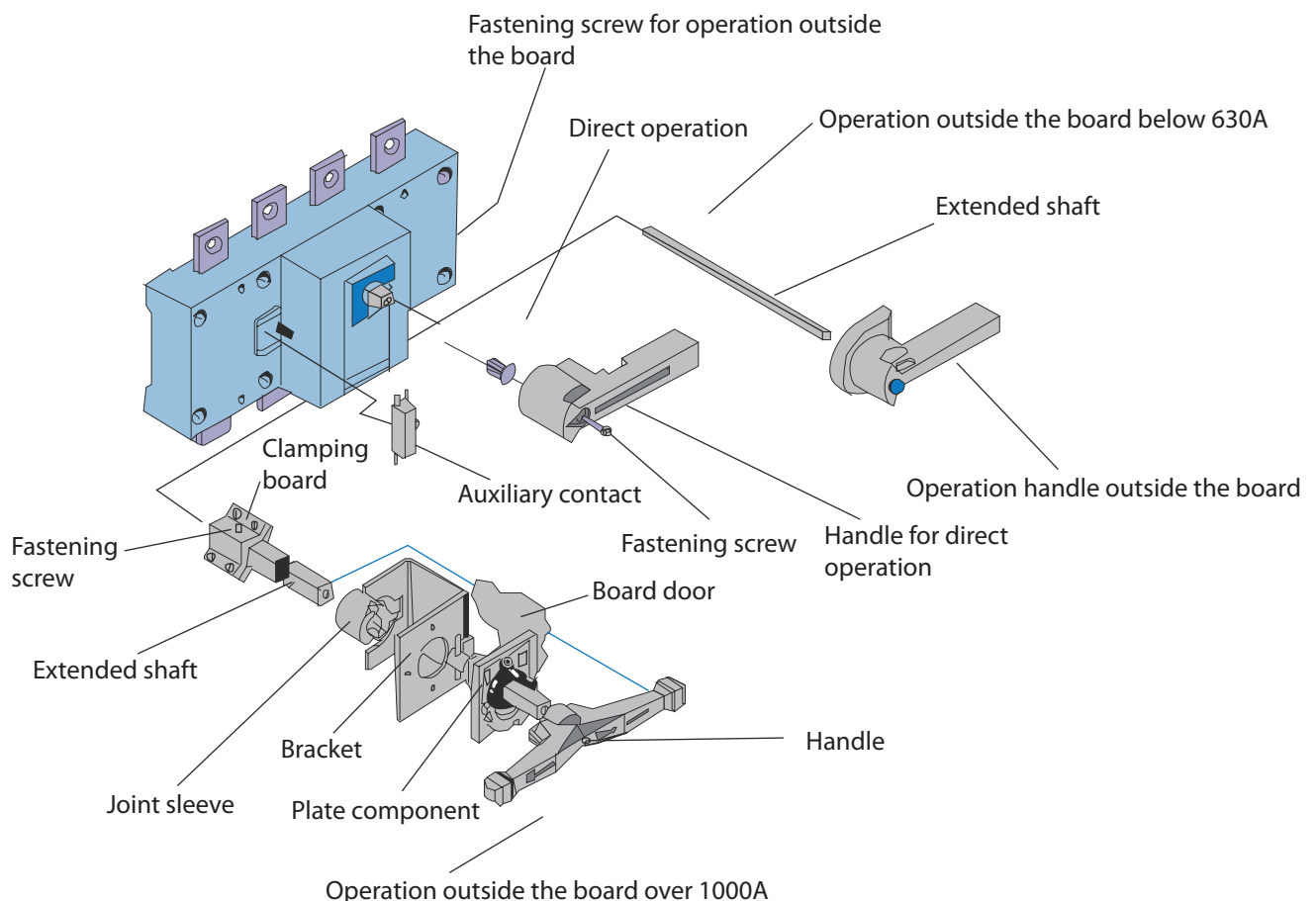
GQD

GGL Load-isolation switch can be divided into 18 ratings from 125A to 4000A. It is the basic type of modular design which includes Manual COS and Auto COS . It has three poles and four poles (three poles + switch neutral pole), applied to make and break circuit or electric isolate. Spring loaded double break/make silver plated contacts ensures stable switching with solid electrical integrity

Symbol window on front face indicates the contact on-off state.

Operation Mode

- Direct operation: The handle is installed directly in the middle of switch
- Operate outside of cabinet: The handle is installed outside of the distribution cabinet
- It can be assembled two groups auxiliary contacts
- Up to two c/o auxiliary contacts can be added for status indication



Locking/Interlocking Devices

- It can be used with Ronis Lock or Castell Lock for interlocking/locking purposes such as bus-coupling



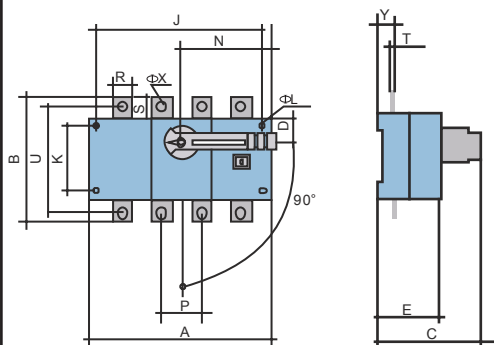
GQD GGL -125~4000A Electrical Properties And Mechanical Properties

Conventional heating current	125A	160A	200A	250A	315A	400A	500A	630A	1000A	1250A	1600A	2000A	2500A	3150A	4000A
Rated insulation voltage $U_i(V)$	750	750	750	750	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Dielectric strength	5000	5000	5000	5000	8000	8000	8000	8000	10000	10000	10000	10000	10000	10000	10000
Rated impaction withstand voltage $U_{imp} KV$ (Installation sort IV)	8	8	8	8	12	12	12	12	12	12	12	12	12	12	12
Rated working current $I_e(A)$															
400V AC21	125	160	200	250	315	400	500	630	1000	1250	1600	2000	2500	3150	4000
AC22	125	160	200	250	315	400	500	630	1000	1250	1600	2000	2500	2500	2500
AC23	125	160	200	250	315	340	425	500	800	1000	1250	1250	1250	1250	1250
750V AC21	125	160	160	200	315	400	400	500	1000	1000	1600	2000	2500	3150	4000
AC22	125	160	160	160	315	315	315	315	800	800	800	2000	2000	2500	2500
AC23	125	80	100	125	125	125	125	125	400	400	500	1000	1000	1250	1250
220V DC21	125	160	200	250	315	400	500	630							
DC22	125	160	200	250	315	400	400	500							
DC23	125	125	160	200											
440V DC21	100	125	160	200	315	400	400	500							
DC22	100	125	160	200	315	400	400	500							
DC23	100	125	160	200											
Motor power $P(KW)$															
380V	63	80	100	132	160	220	280	315	560	560	560	710	710	710	710
660V	75	75	90	750	110	185	185	185	475	475	475	750	750	750	750
Overload capacity															
Rated short-time withstand current $I_{cw}(KA Rms) o.1S/1.0S$	20/10	20/10	30/12	30/12	45/20	45/20	50/25	50/25	90/50	90/50	90/50	90/50	90/50	90/50	90/50
Making and breaking capacity															
Rated making capacity I_{cn} (A Rms)AC23 380V	1250	1250	2000	2000	3150	4000	4000	4000	10000	10000	10000	10000	10000	10000	10000
Rated breaking capacity $I_{cm}(A Rms)AC23 380V$	1000	1000	1600	1600	2500	3200	3200	3200	8000	8000	8000	8000	8000	8000	8000
Rated short-circuit making capacity $I_{cm} (KA peak value)$	12	12	17	17	30	30	40	40	70	70	70	70	70	70	70
Mechanical life (rotation operation time)	10000	10000	10000	10000	5500	5500	5500	5500	4000	4000	3000	2500	2500	2500	2500
Electrical life (rotation operation time)															
Rated voltage $U_e = 660V$ Rated current I_e $COS \Phi = 0.95$ AC21 $COS \Phi = 0.65$ AC22 $COS \Phi = 0.35$ AC23	1500 1000 500	1500 1000 500	1500 1000 500	1500 1000 500	750 500 250	750 500 250	750 500 250	750 500 250	600 400 200	600 400 200	450 300 150	400 200 100	400 200 100	350 200 100	350 200 100
Operation moment (Nm)	6.5	6.5	10	10	14.5	14.5	14.5	14.5	27	27	27	60	60	60	110
Weight (Kg) 3 poles 4 poles	1 1.5	1 1.5	2 2.5	2 2.5	3.5 4	3.5 4	4 4.5	4 4.5	10.5 13	10.5 13	16 20	31 40	31 40	42 49	100 102

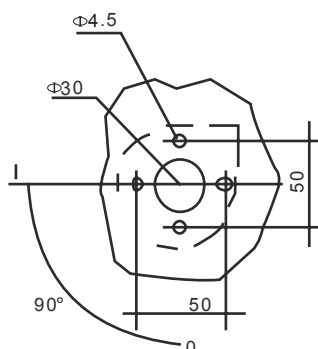
External Dimension And Installation Dimension Of $GQD_{GGL}^{-125\sim630A}$ Load-Isolation Switch



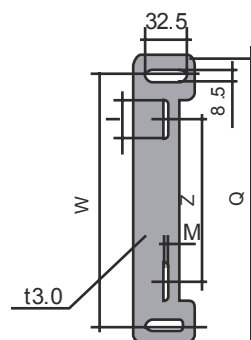
Direct operation of $GQD_{GGL}^{-125\sim630A}$



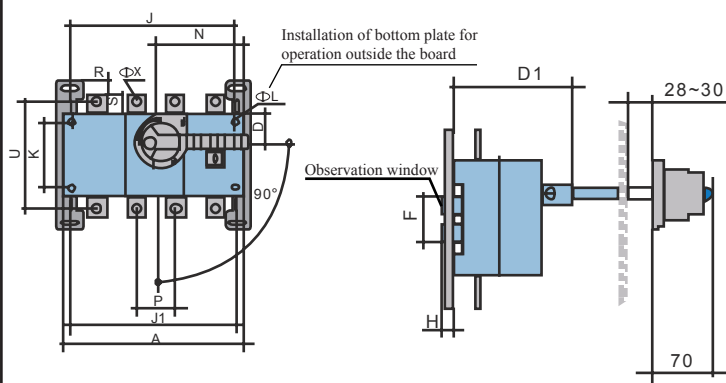
Installation size of handle seat outside of board



Installation of bottom plate for operation outside the board



Operation outside the $GQD_{GGL}^{-125\sim630A/JK}$ board



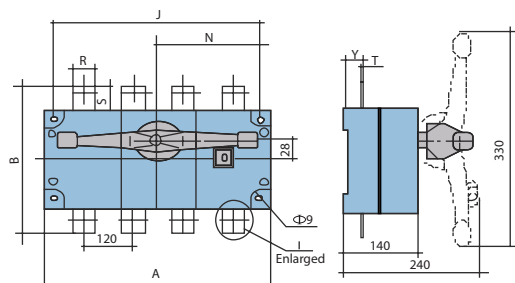
Specification	Dimension Of Bottom Board				
$GQD_{GGL}^{-125\sim630A}$	I	M	Z	W	Q
125A	55	5.5	85	190	218
160A	55	5.5	85	190	218
200A	55	5.5	85	190	218
250A	55	5.5	85	190	218
315A	60	6.5	130	240	270
400A	60	6.5	130	240	270
500A	60	6.5	130	240	270
630A	60	6.5	130	240	270

Specification	External Dimension And Installation Dimension																			
$GQD_{GGL}^{-125\sim630A}$	A	B	C	D	D1	E		J	J1	K	N	P	R	S	T	U	ΦX	Y	F	H
125A/3	140	135	125	27	92	73	5.5	120	120	65	85	36	20	25	3.5	115	9	25	59	10
125A/4	170	135	125	27	92	73	5.5	150	150	65	85	36	20	25	3.5	115	9	25	59	10
160A/3	140	135	125	27	92	73	5.5	120	120	65	85	36	20	25	3.5	115	9	25	59	10
160A/4	170	135	125	27	92	73	5.5	150	150	65	85	36	20	25	3.5	115	9	25	59	10
200A/3	180	170	138	35	98	86	5.5	160	160	90	115	50	25	30	3.5	140	11	25	76	15
200A/4	230	170	138	35	98	86	5.5	210	210	90	115	50	25	30	3.5	140	11	25	76	15
250A/3	180	170	138	35	98	86	5.5	160	160	90	115	50	25	30	3.5	140	11	25	76	15
250A/4	230	170	138	35	98	86	5.5	210	210	90	115	50	25	30	3.5	140	11	25	76	15
315A/3	230	240	165	50	135	110	7	210	210	140	145	65	32	40	5	206	11	37	94	20
315A/4	295	240	165	50	135	110	7	275	275	140	145	65	32	40	5	206	11	37	94	20
400A/3	230	240	165	50	135	110	7	210	210	140	145	65	32	40	5	206	11	37	94	20
400A/4	295	240	165	50	135	110	7	275	275	140	145	65	32	40	5	206	11	37	94	20
500A/3	230	260	165	50	135	110	7	210	210	140	145	65	40	50	6	220	13	37	94	20
500A/4	295	260	165	50	135	110	7	275	275	140	145	65	40	50	6	220	13	37	94	20
630A/3	230	260	165	50	135	110	7	210	210	140	145	65	40	50	6	220	13	37	94	20
630A/4	295	260	165	50	135	110	7	275	275	140	145	65	40	50	6	220	13	37	94	20

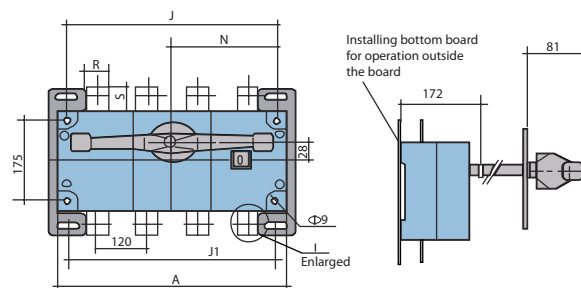


External Dimension And Installation Dimension Of G^{OD}_{GGL} -1000~4000A Load-Isolation Switch

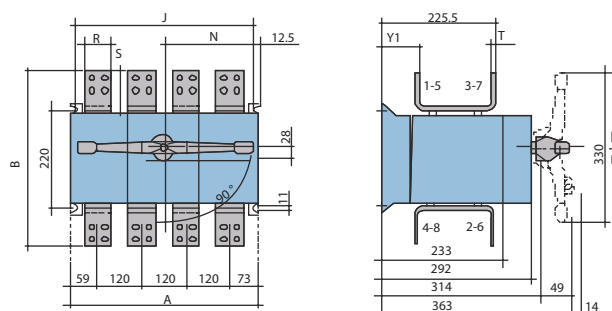
Direct operation on front face G^{OD}_{GGL} -1000~1600A



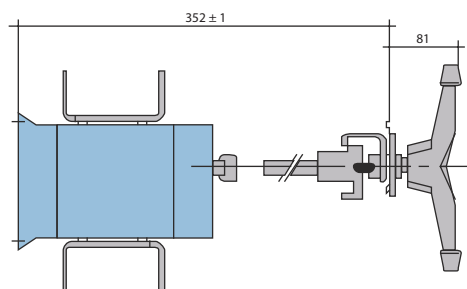
Operation outside G^{OD}_{GGL} -1000~1600A / J board



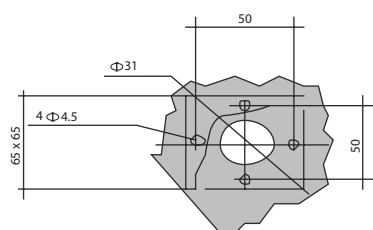
Direct operation on front face G^{OD}_{GGL} -2000~2500A



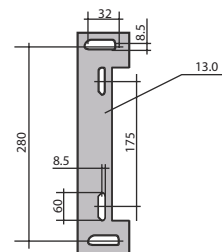
Operation outside G^{OD}_{GGL} -2000~2500A / J board



Installation size of handle seat outside board

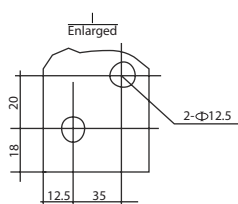


Installation bottom board for operation outside the board

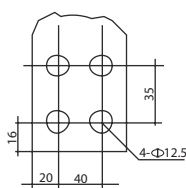


Connecting Terminal

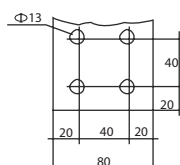
1000A



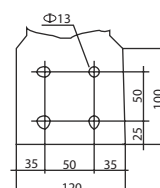
1250A~1600A



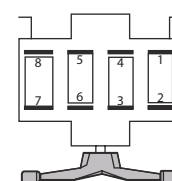
2000~2500A



3150~4000A



2000-4000A
Operation outside

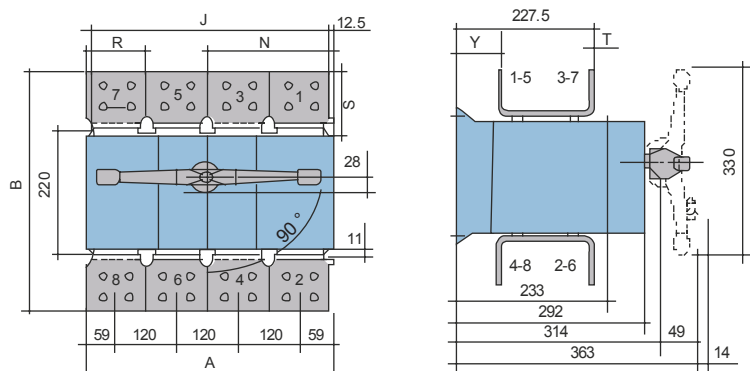


Splicing terminal
— See below if upward
— See above if downward

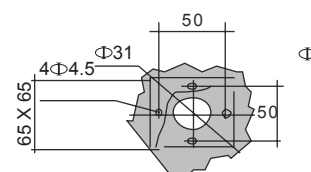
External Dimension and Installation Dimension Of ^{GQD}_{GGL}-1000~4000A Load-Isolation Switch



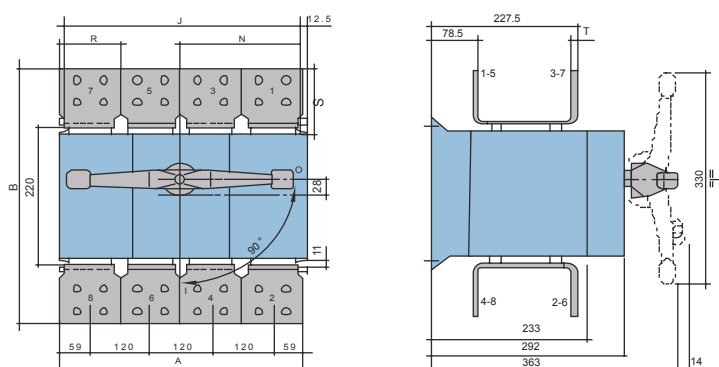
Direct operation on front face ^{GQD}_{GGL} 3150A



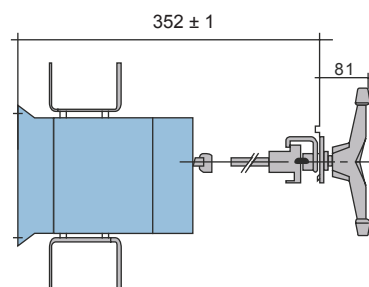
Installation size of front face cabinet
outside ^{GQD}_{GGL}-2000~4000A



Direct operation on front face ^{GQD}_{GGL} 4000A



Operation outside ^{GQD}_{GGL}-3150~4000A



Specification	External Dimension And Installation Dimension								
^{GQD} _{GGL} -125~630A	A	B	J	J1	N	R	S	T	Y
1000A/3	378	312	355	355	174	60	56	8	48
1000A/4	492	312	473	473	234	60	56	8	48
1250A/3	378	338	355	355	174	80	69	8	48
1250A/4	492	338	473	473	234	80	69	8	48
1600A/3	378	338	355	355	174	80	69	8	49
1600A/4	492	338	473	473	234	80	69	10	49
2000A/3	378	455	355	355	173.5	80	127.5	10	78.5
2000A/4	492	455	473	473	233.5	80	127.5	10	78.5
2500A/3	378	455	355	355	173.5	80	127.5	10	78.5
2500A/4	492	455	473	473	233.5	80	127.5	10	78.5
3150A/3	378	505	355	355	173.5	120	152.5	10	78.5
3150A/4	492	505	473	473	233.5	120	152.5	12	78.5
4000A/3	378	505	355	355	173.5	120	152.5	12	78.5
4000A/4	492	505	473	473	233.5	120	152.5		78.5



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