



JUHGL Series
Switch–Disconnect
(Changeover Switch)
Instruction Manual

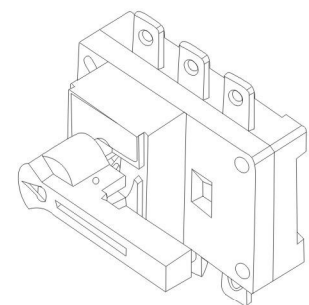
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Operational Instructions



JUHGL-100~3200A Series
Loadisolation switch
JUHG LZ-100~3200A Series
Switching load isolation switch

GENERAL >>>

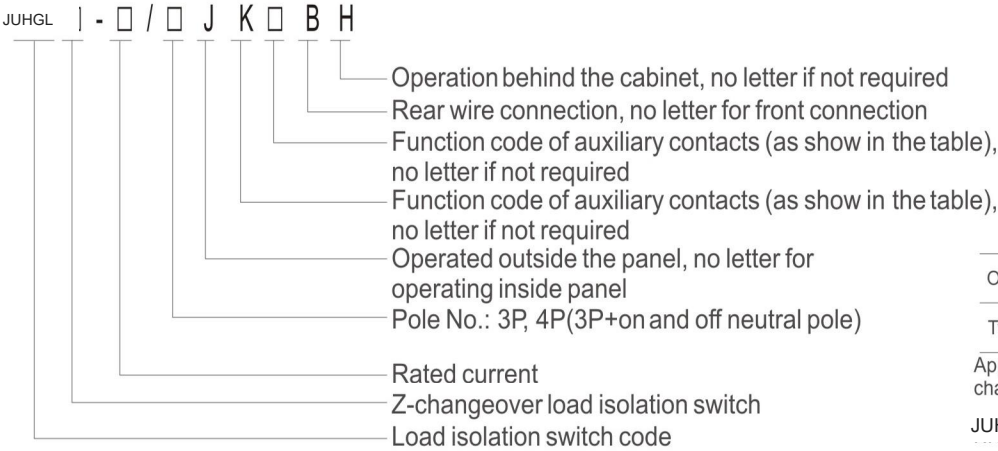
JUHGL series load isolation switch is suitable for AC 50Hz, rated voltage 660V, DC rated voltage up to 440V, conventional thermal current up to 3200A in the power distribution equipment of industrial enterprise, to non-frequently make and break the circuit and electric isolating. It is widely used in the distribution system and automation system of architecture, electric power, petrochemical and other industries.

JUHGLZ changeover load isolation switch is composed of two JUHGL load isolation switches on or around and is arranged and stacked. It is suitable for dual power supply to switch or two load equipment to transform and security isolation.

The switch complies with standard of IEC60947-3, GB14048.3.

The switch has a good-looking outline and various functions, being very novel, simple and small dimensioned, which is the best choice among the similar products.

Model and meaning



One NO and One NC	11	1NO+1NC
Two NO and Two NC	22	2NO+2NC

Applicable example: rated current 630A, change-over load isolation switch with outside panel:

JUHGLZ-630/4J

Switch characteristics

The switch adopts modularized design and is suitable for making and breaking of electric circuit or electric isolation. Switches over 1000A are only suitable for electric isolation.

The operation mechanism is an elastic-accumulating acceleration mechanism for instant release, which makes instant on and off of the double breakpoint contact. It increases greatly various electric properties and mechanical properties.

The switch adopts glass fiber reinforced unsaturated polyester molding plastic and manual operating handle, with very high dielectric properties, protection and reliable operation safety.

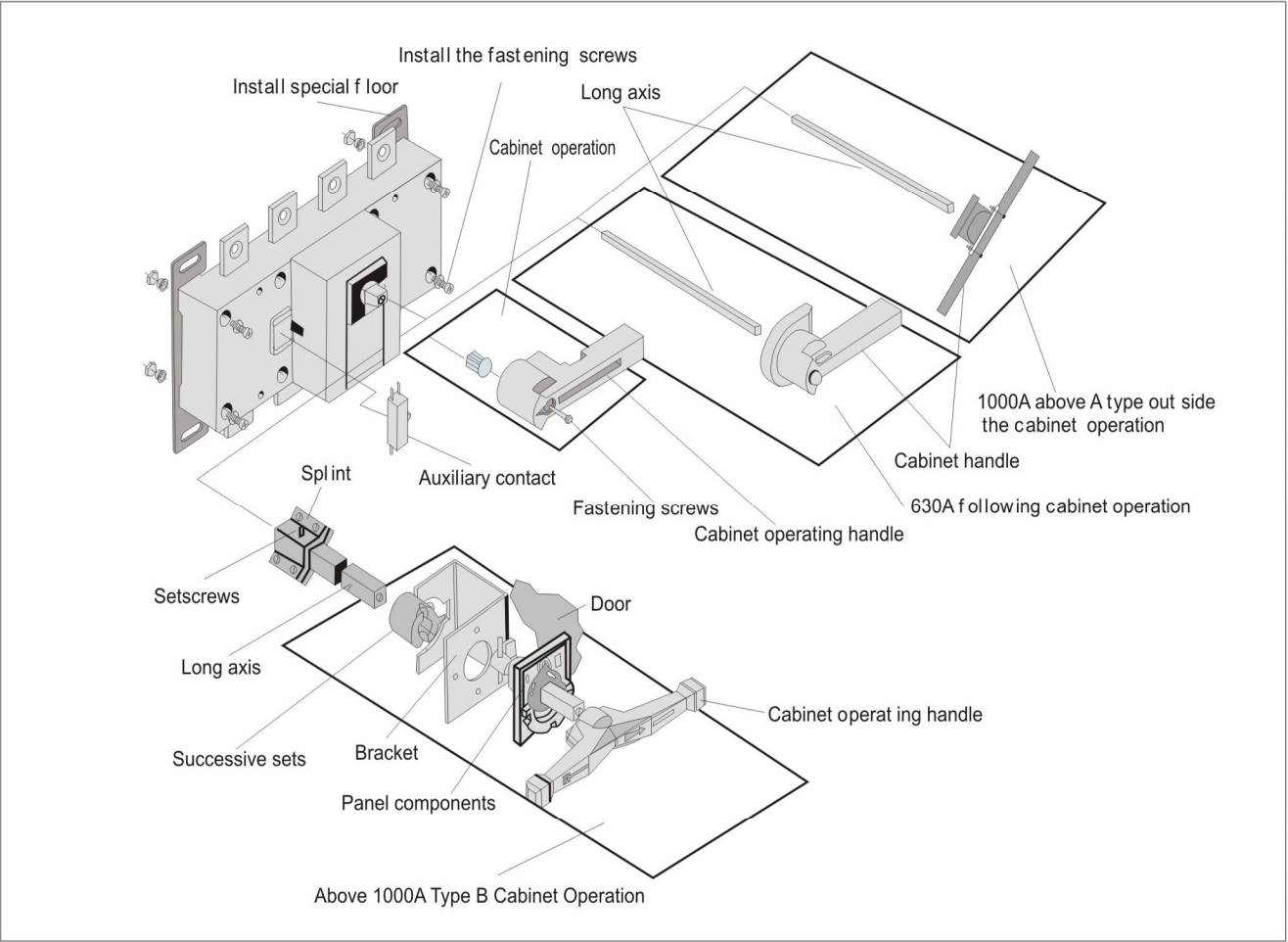
Switch has 3 poles, 4 poles (3P + on and off neutral pole).

Mark window is set in the front side to indicate the on and off state of the contact. Rear observation window can be provided according to the demand to observe directly the on and off state of the contact, to ensure the safety and reliability of switching operation.

The handle can be directly installed in the switch operation (referred to as the cabinet operation), can also be lengthened shaft in the power distribution cabinet door operation (referred to as the operating outside cabinet), provides convenient operation.

It can be normally open normally closed auxiliary contact and the installation of special plate and the plate before the board wiring way according to the needs, to meet the various needs of customers.

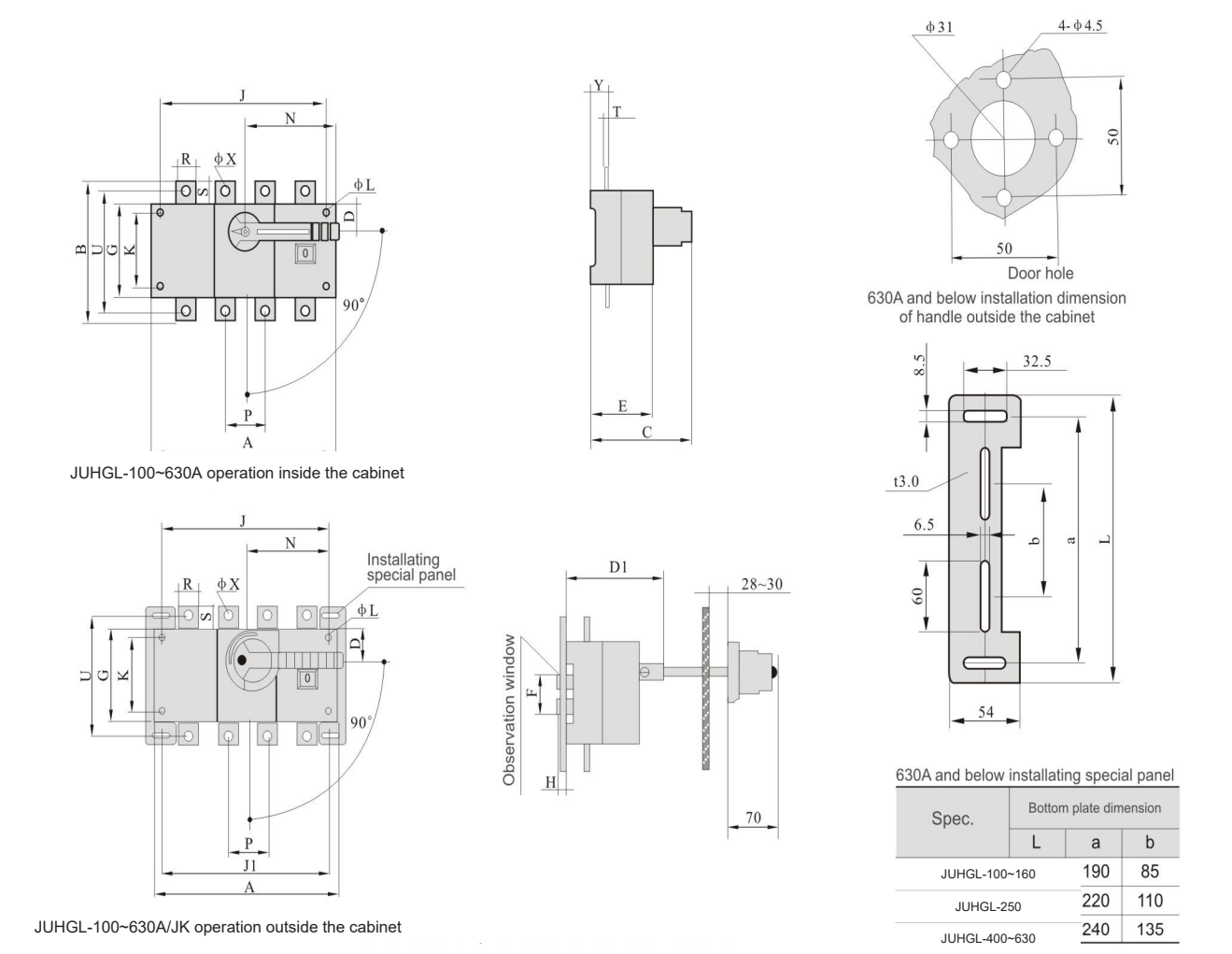
In the breaking position "0", can be used two to three to lock the handle, to prevent misoperation.



Main technical parameters

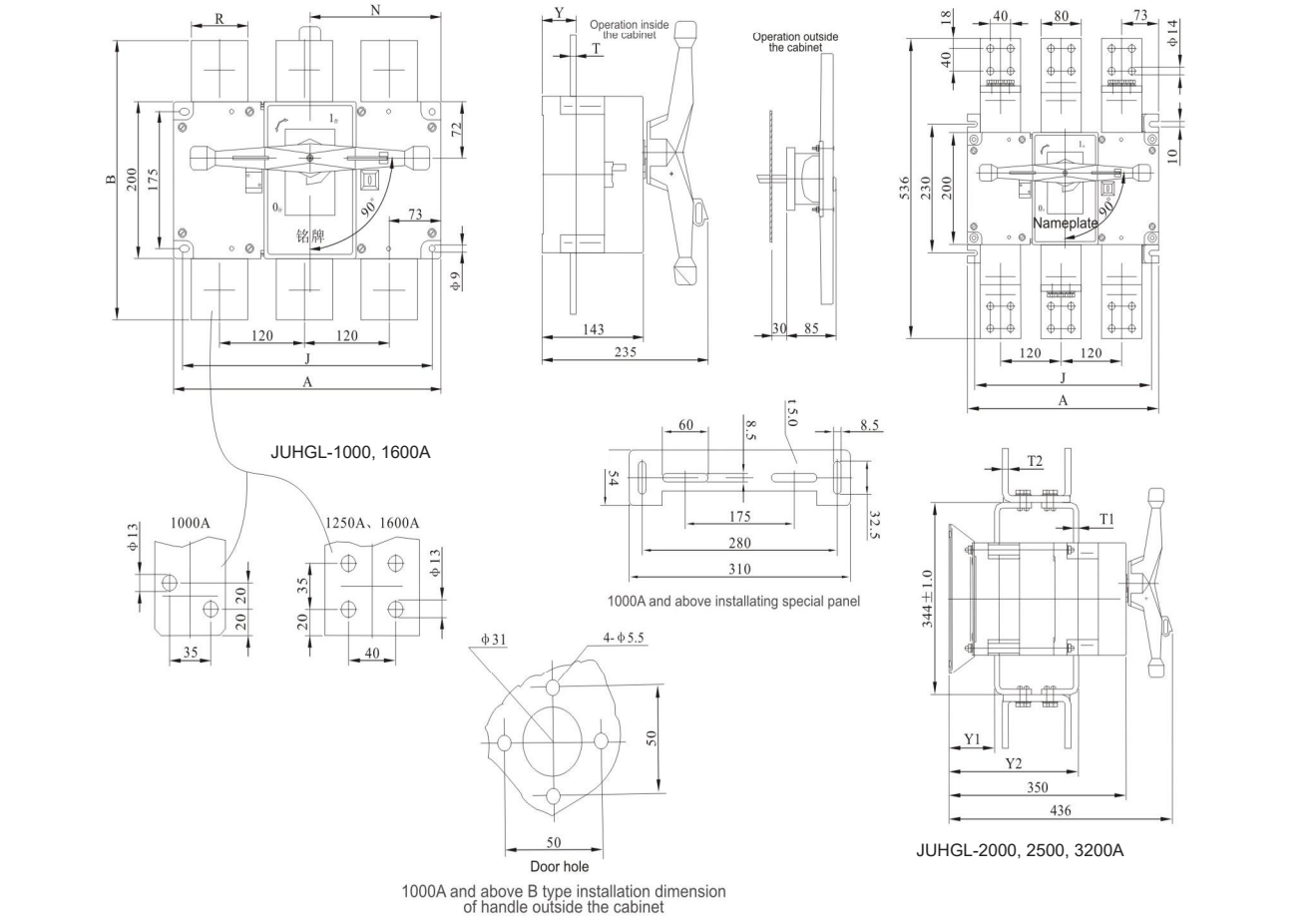
Conventional thermal current Ith(A)	100	160	250	400	630	1000	1600
Rated insulation voltage Ui(V)	800	800	800	800	800	1000	1000
Dielectric strength(V)	5000	5000	5000	8000	8000	8000	10000
Rated impulse withstand voltage Uimp kV(Mounting category IV)	8	8	6	12	12	12	12
Rated working current Ie(A)							
380V AC-21	100	160	250	400	630	1000	1600
	100	160	250	400	630	1000	1600
	100	160	250	340	536	800	1280
660V AC-21	100	160	200	400	500	1000	1600
	100	125	160	200	315	630	800
	50	63	80	125	125	400	500
220V DC-21	100	160	250	400	630	1000	1600
	100	160	250	400	500	1000	1250
	80	125	200	400	500	1000	1250
440V DC-21	80	125	200	400	500	1000	1250
	80	125	200	400	500	1000	1250
	80	125	200	400	500	1000	1000
Motor power (kW)							
380V	45	55	75	110	110	365	500
660V	55	70	110	220	220	560	560
Overloading capacity							
Rated short-time withstand current Icw(kA Rms)0.1S/1.0S	20/10	20/10	25/9	30/20	50/20	90/50	90/50
Making and breaking capacity							
Rated making capacity (A Rms)AC-23 380V	1000	1000	1600	3200	3200	8000	8000
Rated breaking capacity(A Rms)AC-23 380V	1250	1250	2000	4000	4000	10000	10000
Rated short circuit making capacity Icm(kA peak value)	12	17	24	30	40	70	70
Mechanical life(operating cycles)	10000	10000	10000	5500	5500	4000	3000
Electrical life(operating cycles)							
Rated voltage Ue=660V Rated current Ie COSΦ=0.95 AC-21 COSΦ=0.65 AC-22 COSΦ=0.35 AC-23	1500	1500	1500	750	750	600	450
	1000	1000	1000	500	500	400	300
	500	500	500	250	250	200	150
Operation torque(N·m)	6.5	6.5	10	14.5	14.5	27	27
Weight(kg)	3P	1	2	3.5	4	10.5	16
	4P	1.5	2.5	4	4.5	13	20

JUHGL-100A~630A Overall and installation dimension



Spec.	Overall and Installation dimension																				
	A	B	C	D	D1	E	G	ΦL	J	J1	K	N	P	R	S	T	U	ΦX	Y	F	H
JUHGL-100/3	140	135	125	27	92	73	85	5.5	120	120	65	85	36	20	25	3.5	115	9	25	59	10
JUHGL-100/4	170	135	125	27	92	73	85	5.5	150	150	65	85	36	20	25	3.5	115	9	25	59	10
JUHGL-160/3	140	135	125	27	92	73	85	5.5	120	120	65	85	36	20	25	3.5	115	9	25	59	10
JUHGL-160/4	170	135	125	27	92	73	85	5.5	150	150	65	85	36	20	25	3.5	115	9	25	59	10
JUHGL-250/3	180	170	136	35	98	84	110	5.5	160	160	90	115	50	25	30	3.5	140	11	25	76	15
JUHGL-250/4	230	170	136	35	98	84	110	5.5	210	210	90	115	50	25	30	3.5	140	11	25	76	15
JUHGL-400/3	230	240	190	50	135	118	160	7	210	210	140	145	65	32	40	5	206	11	37	94	20
JUHGL-400/4	290	240	190	50	135	118	160	7	270	270	140	145	65	32	40	5	206	11	37	94	20
JUHGL-630/3	230	260	190	50	135	118	160	7	210	210	140	145	65	40	50	6	220	13	37	94	20
JUHGL-630/4	290	260	190	50	135	118	160	7	270	270	140	145	65	40	50	6	220	13	37	94	20

JUHGL-1000A~3200A Overall and installation dimension



Spec.	A	B	J	N	R	T	Y
JUHGL-1000/3	378	312	353	185	60	8	48
JUHGL-1000/4	498	312	473	249	60	8	48
JUHGL-1600/3	378	356	353	185	80	10	49
JUHGL-1600/4	498	356	473	249	80	10	49

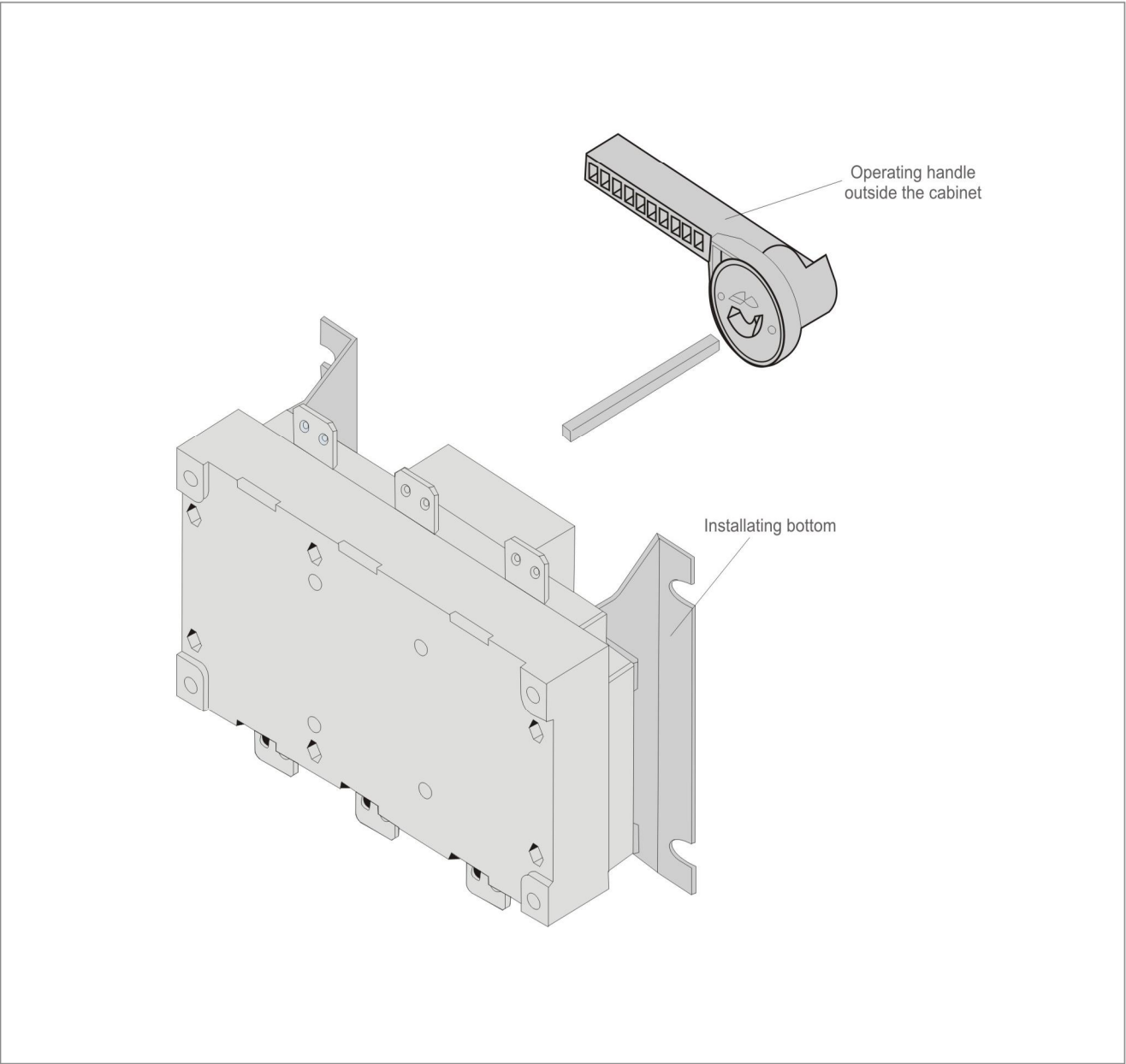
Spec.	A	J	T1	T2	Y1	Y2
JUHGL-2000/3	378	350	8	12	90	255
JUHGL-2000/4	498	470	8	12	90	255
JUHGL-2500/3	378	350	8	12	90	255
JUHGL-2500/4	498	470	8	12	90	255
JUHGL-3200/3	378	350	10	14	89	256
JUHGL-3200/4	498	470	10	14	89	256

Operation behind the cabinet load isolation switch

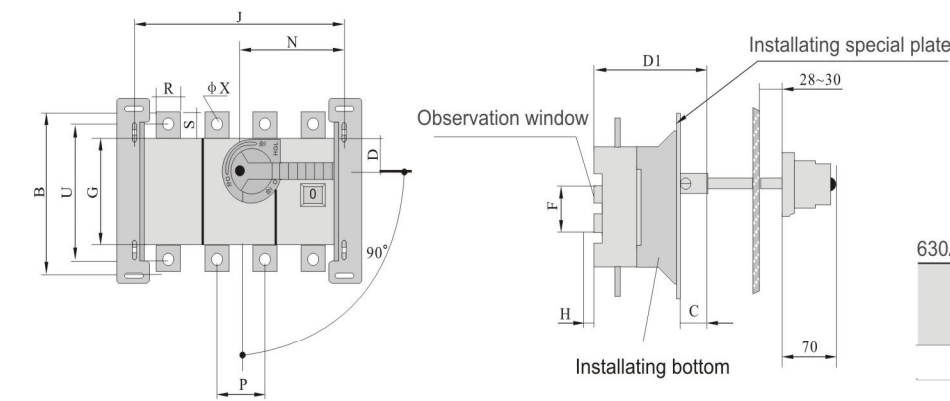
- ◆100A ~ 630A is suitable for the making and breaking of electric circuit or electric isolation. Over in 1000A is only suitable for electric isolation.
- ◆ 100A ~ 630A has 3 poles, 4 poles(3P + on and off neutral pole).
- ◆ Products below 630A with observation window can be provided according to the demand to directly the on and off state of contact.
- ◆ Two sets of auxiliary contacts is assembled according to the demand.

* Mechanical and electrical properties correspond to those of JUHGL-100A~1600A.

Note: only provides operating outside cabinet products.



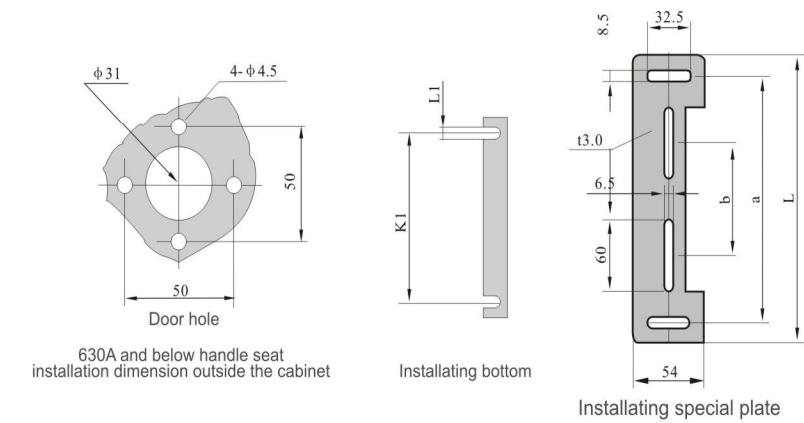
JUHGL-100A~630A/H Overall and installation dimension



JUHGL-100A~630A/JKH operation outside the cabinet

630A and below installing special plate

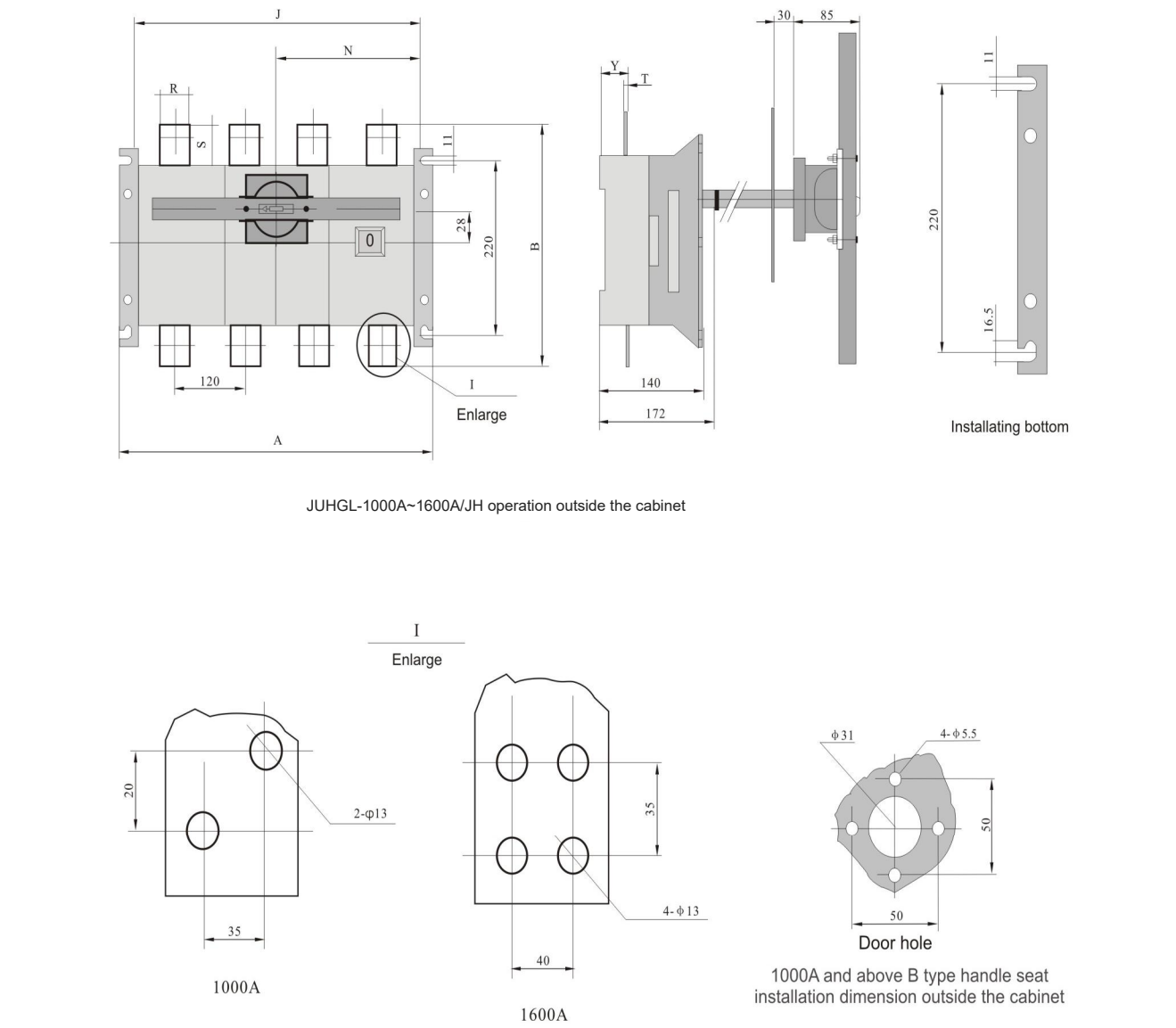
Spec.	Bottom plate dimension		
	L	a	b
JUHGL-100~160	218	190	85
JUHGL-250	245	220	110
JUHGL-400~630	270	240	135



Spec.	Installing bottom	
	K1	L1
JUHGL-100~160	95	7
JUHGL-250	115	9
JUHGL-400~630	180	11

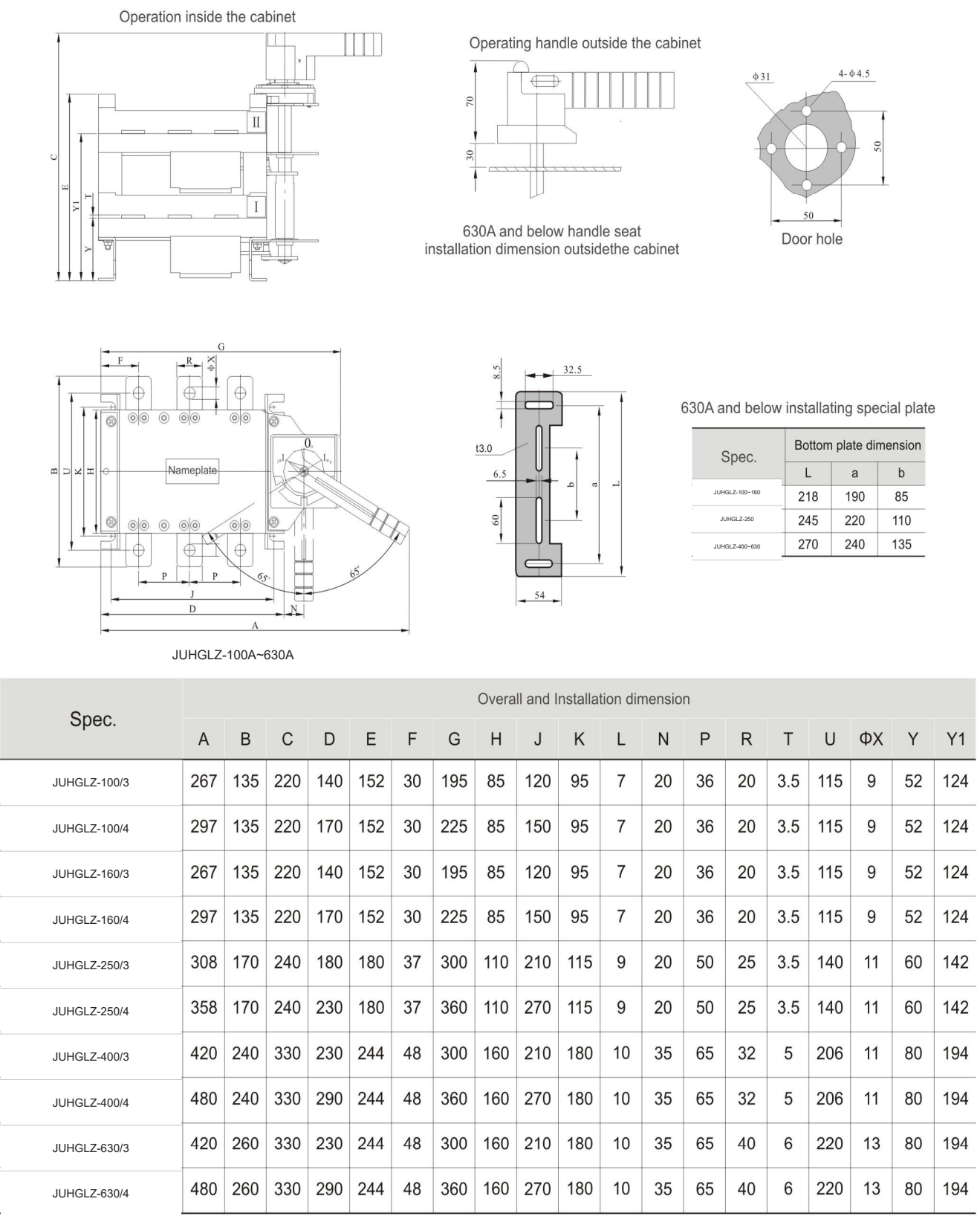
Spec.	Overall and Installation dimension														
	B	C	D	D1	G	J	N	P	R	S	U	ΦX	F	H	
JUHGL-100/3JH	135	17	27	92	85	120	75	36	20	25	115	9	59	10	
JUHGL-100/4JH	135	17	27	92	85	150	75	36	20	25	115	9	59	10	
JUHGL-160/3JH	135	17	27	92	85	120	75	36	20	25	115	9	59	10	
JUHGL-160/4JH	135	17	27	92	85	150	75	36	20	25	115	9	59	10	
JUHGL-250/3JH	170	18	35	98	110	160	105	50	25	30	140	11	76	15	
JUHGL-250/4JH	170	18	35	98	110	210	105	50	25	30	140	11	76	15	
JUHGL-400/3JH	240	20	50	135	160	210	135	65	32	40	206	11	94	20	
JUHGL-400/4JH	240	20	50	135	160	270	135	65	32	40	206	11	94	20	
JUHGL-630/3JH	260	20	50	135	160	210	135	65	40	50	220	13	94	20	
JUHGL-630/4JH	260	20	50	135	160	270	135	65	40	50	220	13	94	20	

JUHGL-1000A~1600A/H Overall and installation dimension



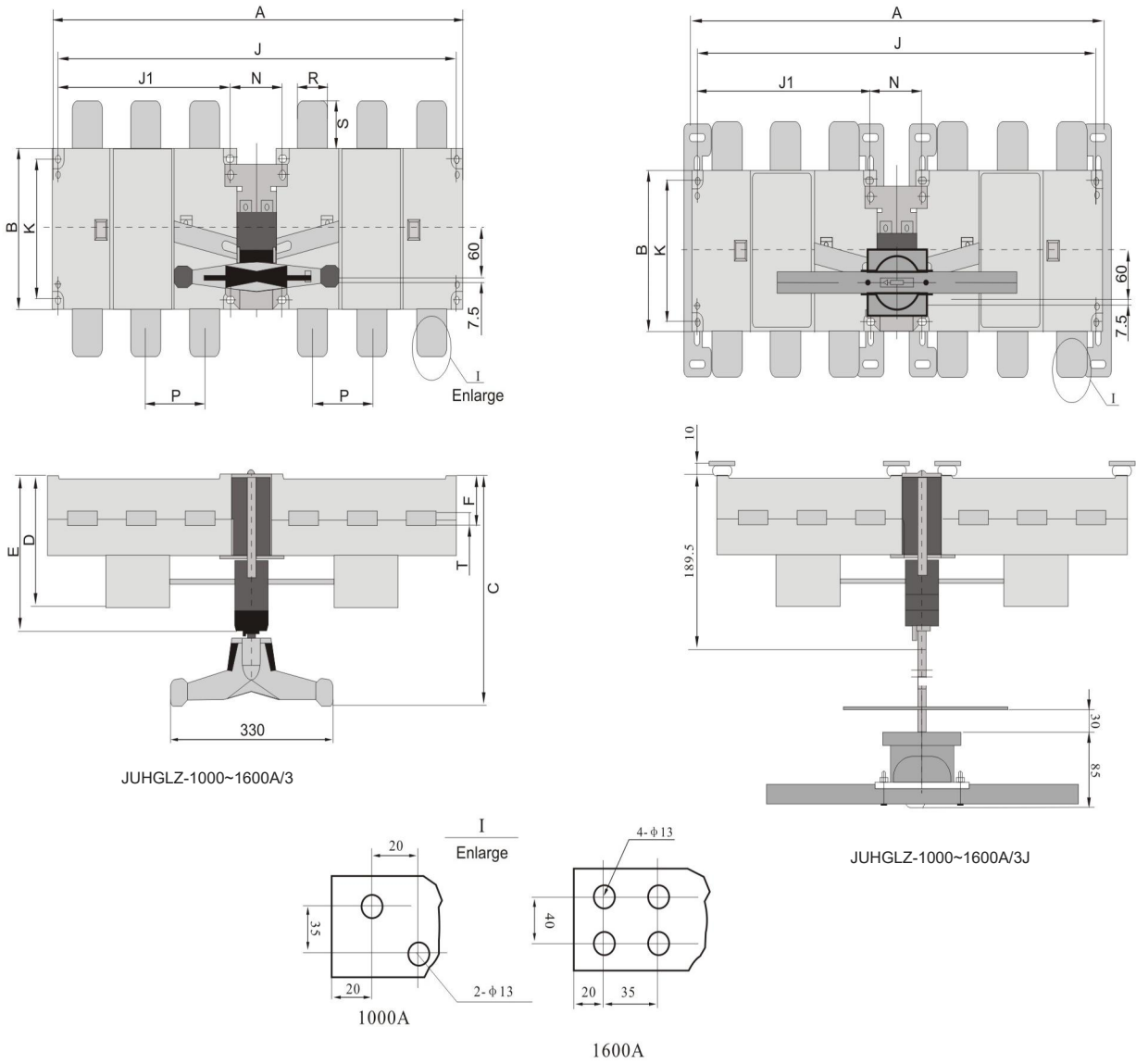
Change-over load isolation switch

• Overall and installation dimension of JUHGLZ-100A~630A change-over load isolation switch



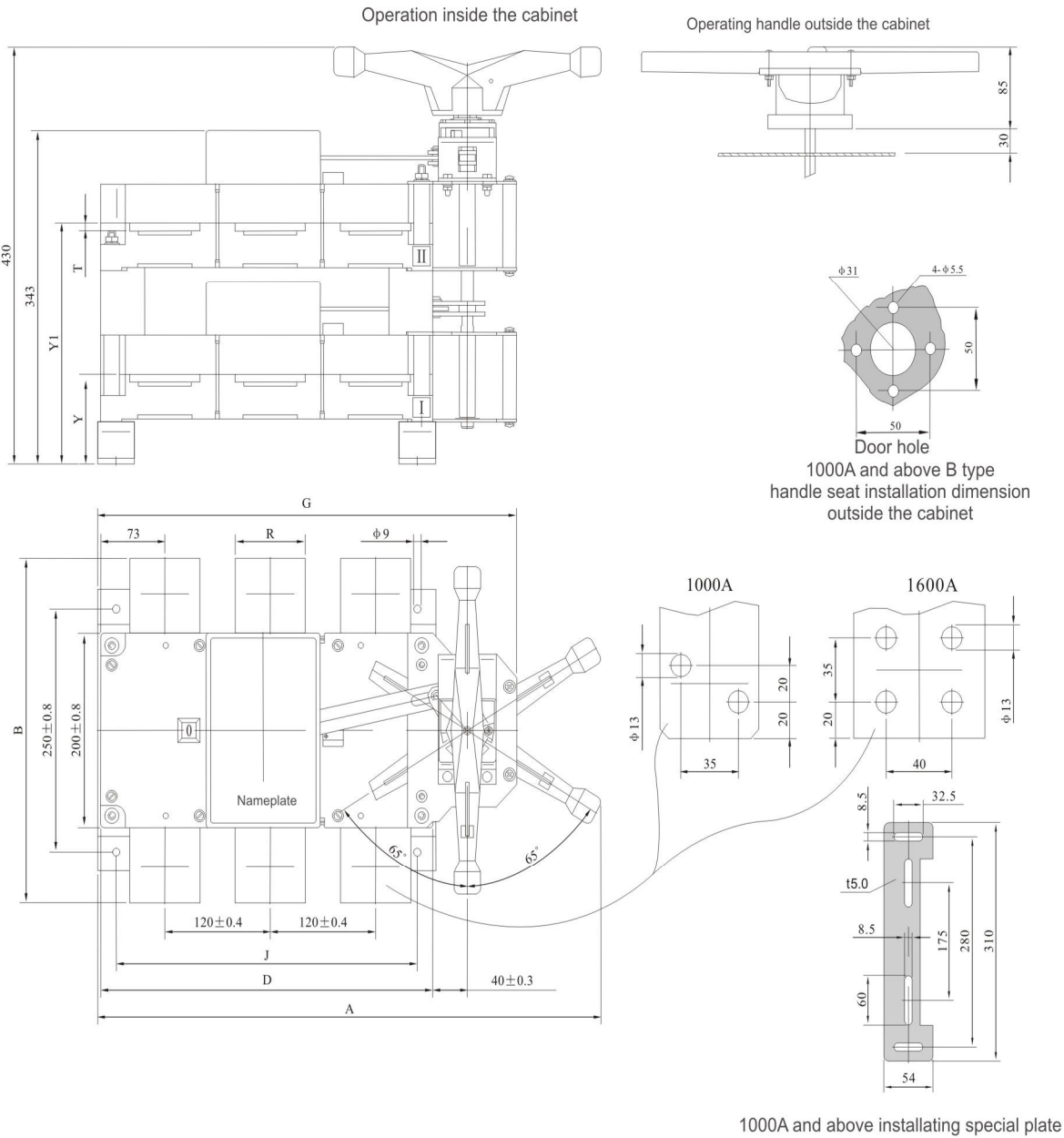
◆ Overall and installation dimension of JUHGLZ-1000A~1600A change-over load isolation switch

◆ Left and right type change-over load isolation switch



Spec.	Overall and Installation dimension													
	A	B	C	D	E	F	J	J1	K	N	P	R	S	T
JUHGLZ-1000/3	836	200	242	140	168	48	811	353	175	105	120	60	56	8
JUHGLZ-1000/4	1076	200	242	140	168	48	1051	473	175	105	120	60	56	8
JUHGLZ-1600/3	836	200	242	140	168	49	811	353	175	105	120	80	78	10
JUHGLZ-1600/4	1076	200	242	140	168	49	1051	473	175	105	120	80	78	10

◆Up and down type change-over load isolation switch



Spec.	Overall and Installation dimension								
	A	B	D	G	J	R	T	Y	Y1
JUHGLZ-1000/3	578	312	378	476	343	60	8	92	248
JUHGLZ-1000/4	698	312	498	596	463	60	8	92	248
JUHGLZ-1600/3	578	356	378	476	343	80	10	93	249
JUHGLZ-1600/4	698	356	498	596	463	80	10	93	249