A T S

User Manual

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1. Main Technical Parameters

Standard: IEC60947-6-1/GB 14048.11-2002

ATS: 20A-80A

Promise heat current Ith	20A	40A	63A	80A
Insulation voltage Ui	750V			
Withstand impulsion voltage Uimp	8KV			
Rated voltage Ue	AV440V			
Rated current Ie	20A	40A	63A	80A
Load	AC31A、AC35A、AC33A			
Make-open capacity	10Ie			
Make-break capacity	8Ie			
Limiting short-circuit current	100KA			
Short-time withstand capacity IS	7KA			
Change-over time	0.45S			
Operating voltage	AC220V			
Electromotor energy wasting	Start 300W、Normal 55W			
Weight（kg）	4.2	4.3	4.4	4.5

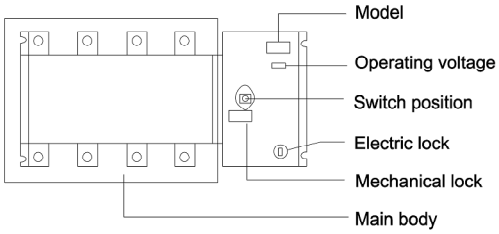
ATS: 100A-250A

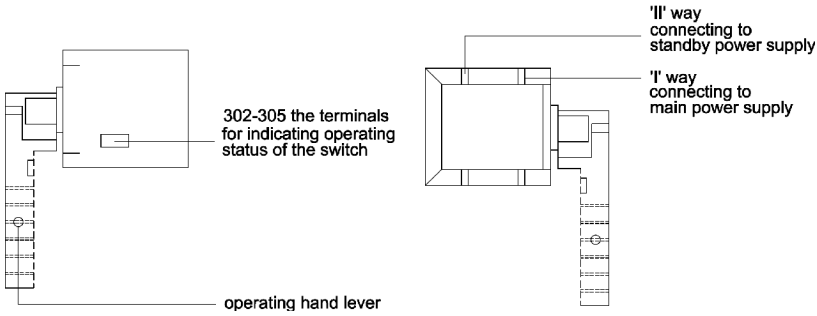
Promise heat current Ith		100A	125A	160A	250A
Insulation voltage Ui		750V			
Withstand impulsion voltage Uimp		8KV			
Rated voltage Ue		AC440V			
Rated current Ie	AC-31A	100	125	160	250
	AC-35A	100	125	160	250
	AC-33A	100	125	160	250
Make-open capacity		10Ie			
Make-break capacity		8Ie			
Limiting short-circuit current		100KA			
Short-time withstand capacity IS		7KA		9KA	
Change-over time		0.45S			
Operating voltage		AC220V			
Electromotor energy wasting					
Rated voltage	start	300W		325W	
	natural	55W		62W	
Weight（kg）		7.5	7.5	8.8	9

ATS: 400A-1600A

Promise heat current Ith		400A	630A	800A	1000A	1250A	1600A
Insulation voltage Ui		1000V					
Withstand impulsion voltage Uimp		12KV					
Rated voltage Ue		AC440V					
Rated current Ie	AC-31A	400	630	800	1000	1250	1600
	AC-35A	400	630	800	1000	1250	1600
	AC-33A	400	630	800	1000	1250	1600
Make-open capacity		10Ie					
Make-break capacity		8Ie					
Limiting short-circuit current		70KA				100KA	120KA
Short-time withstand capacity IS		13KA		26KA		50KA	
Change-over time		0.6S		1.2S			
Operating voltage		AC220V					
Electromotor energy wasting							
Rated voltage	start	355W		400W		440W	
	natural	74W		90W		98W	
Weight（kg）		16.5	17	32	36	40	43

2. Structure Description





2.1 Electric control lock: It is used to control the internal power supply circuit of the switch. When the electric lock is turned on, the switch performs automatic and remote control operation; when the electric lock is turned off, the switch can only perform manual operation.

2.2 Operating hand lever: while the hand lever is used to operated the switch, the electric lock must be turned off. ※

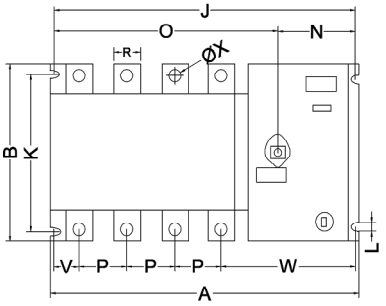
2.3 Mechanical lock: before servicing, please operate the hand lever to place the switch to '0' position, then draw up and padlock the mechanical lock. Notice that once the mechanical lock is drawn up, the internal power supply of the switch is cut off and the switch can not perform the electric and manual operation functions.

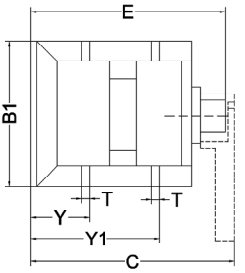
2.4 Switch position: it shows the operating status position of the switch（I, 0, II）.

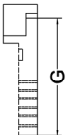
2.5 Operating voltage: the operating voltage grade, 220VAC.

2.6 Main body: the fore part is 'I' way, connecting to main power supply input; the rear part is 'II' way, connecting to standby power supply input.

3. Fixing Dimensions







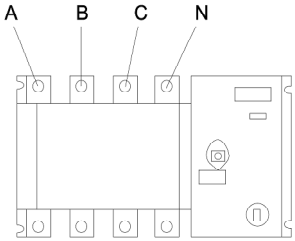
Hand lever

Size mm	20A～80A	100A 125A,160A	250A	400A 630A	800A 1000A	1250A	1600A
A	244.5	303	359	433	633	633	633
B	106	135.5	160	260	330	330	330
B1	106	135	135	228	250	250	250
C	160	251	251	319	370	370	370
E	133	195	195	262	321	321	321
G	145	190	190	190	470	470	470
J	227.5	280	339	415	611	611	611
K	84	95/110	95	180	220	220	220
L	7	7	7	9	11	11	11
N	74.5	86	86	89	85	85	85
O	153	194	253	324	524	524	524
P	30	36	50	65	120	120	120
R	14	20	25	40	63	63	80
T	2.5	3.5	3.0	5	7	7	15
V	10.5	20	27	37.5	60.5	60.5	60.5
W	126	152	162	180.5	188.5	188.5	188.5
X	6	9	11	13			
Y	36	58	60.5	82.5	107	111	111
Y1	86	136.5	136.5	192.5	249	249	253

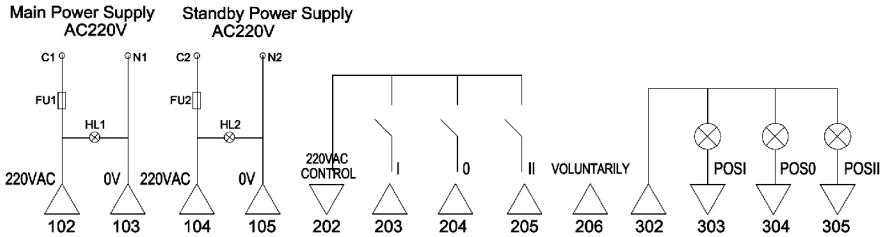
4. Operating Method

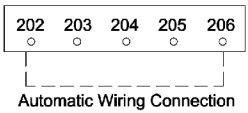
4.1 The wiring connection method for main switch

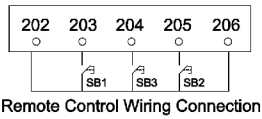
Attention to the sequence of the wiring.

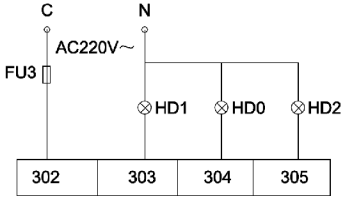


4.2 Typical wiring connection method









※ HL1 is used for the indication of main power supply and HL2 is for standby power supply.

HD1、HD2 are used to indicate the main power supply or standby power supply is launched.

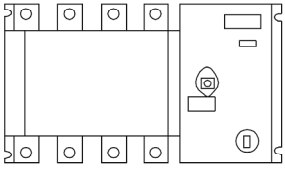
FU1、FU2、FU3 are 2A fuses.

※ SB1 is a manual button for launching the main power supply （passive contactor）.

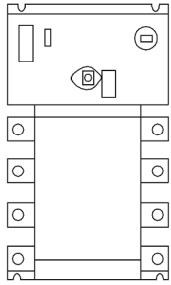
SB2 is a manual button for launching the standby power supply （passive contactor）.

SB3 is a button pressed to set the switch to ‘0’ way （passive contactor, self-lock）.

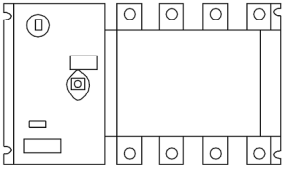
4.3 Fixing method



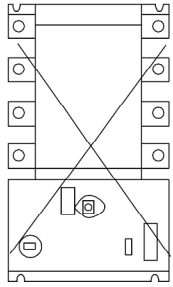
（A）



（B）



（C）



（D）

（A）（B）（C）are correct.

（D）is wrong.