Automatic Bus Transfer Switch 83B

POWER SYSTEM PROTECTION EQUIPMENT



Overview of Automatic Bus Transfer Switch (ABTS) The ASZ-441H sectionalized standby power automatic transfer switch, as a typical Automatic Bus Transfer Switch and core unit of the automatic bus transfer system, can automatically disconnect the main power supply upon power failure or circuit interruption, close the sectionalized circuit breaker, and complete fast automatic transfer to the standby power supply. ANSI：25/51V/50/51/60 Communication Mode:Optional: RS-485, CAN bus, IEC 61850 , IEC 60870-5-103

KEY FEATURES

- Automatic Bus Transfer Function, ANSI 25
- Compound Voltage Initiated Overcurrent Protection – ANSI 51V
- Charging Protection, ANSI 50/51
- Overload Protection , ANSI 51
- PT/VT Broken Circuit Supervision, ANSI 60

ATS CONTROLLER WITH ANSI 27/59 PROTECTION – SETTING LIST

No.	Display Name	Range	Step	Remark
1	**Stage 1 Protection Configuration**	–	–	
1.1	Stage 1 Protection	1/0	–	Stage 1 Protection: Enable(1) / Disable(0)
1.2	Stage 1 Compound Voltage Locking	1/0	–	Stage 1 Compound Voltage Locking: Enable(1) / Disable(0)
1.3	Stage 1 Time Delay	0-120.00s	0.01s	
1.4	Stage 1 Setting Value	0.40-99.99A0.10-20.00A	0.01A	In=5A: 0.40-99.99AIn=1A: 0.10-20.00A
2	**Stage 2 Protection Configuration**	–	–	
2.1	Stage 2 Protection	1/0	–	Stage 2 Protection: Enable(1) / Disable(0)
2.2	Stage 2 Compound Voltage Locking	1/0	–	Stage 2 Compound Voltage Locking: Enable(1) / Disable(0)
2.3	Stage 2 Time Delay	0-120.00s	0.01s	
2.4	Stage 2 Setting Value	0.40-99.99A0.10-20.00A	0.01A	In=5A: 0.40-99.99AIn=1A: 0.10-20.00A
3	**Stage 3 Protection Configuration**	–	–	
3.1	Stage 3 Protection	1/0	–	Stage 3 Protection: Enable(1) / Disable(0)
3.2	Stage 3 Compound Voltage Locking	1/0	–	Stage 3 Compound Voltage Locking: Enable(1) / Disable(0)
3.3	Stage 3 Time Delay	0-120.00s	0.01s	
3.4	Stage 3 Setting Value	0.40-99.99A0.10-20.00A	0.01A	In=5A: 0.40-99.99AIn=1A: 0.10-20.00A
4	**Bus Charging Protection**	–	–	
4.1	Bus Charging Protection	1/0	–	Bus Charging Protection: Enable(1) / Disable(0)
4.2	Charging Time Delay	0-120.00s	0.01s	
4.3	Charging Setting Value	0.40-99.99A0.10-20.00A	0.01A	In=5A: 0.40-99.99AIn=1A: 0.10-20.00A
5	**Overload Configuration**	–	–	
5.1	Overload Protection	1/0	–	Overload Alarm: Enable(1) / Disable(0)
5.2	Overload Time T	0-120.00s	0.01s	
5.3	Overload Current I	0.40-99.99A0.10-20.00A	0.01A	Corresponding to In=5A / In=1A

No.	Display Name	Range	Step	Remark
6	**Section Bus Automatic Transfer Configuration**	–	–	
6.1	Section Bus Automatic Transfer	1/0	–	Section Bus Automatic Transfer: Enable(1) / Disable(0)
6.2	Transfer Only Judge Trip Position	1/0	–	Judge only circuit breaker trip position for transfer
6.3	No-Current Detection Enable	1/0	–	No-current detection: Detect Incoming Current(1) / Undetect(0)
6.4	Transfer Time T1	0.1-120.00s	0.01s	
6.5	Transfer Time T2	0.1-120.00s	0.01s	
6.6	Live Current Setting 1	0.2-10.00A	0.01A	
6.7	Live Current Setting 2	0.2-10.00A	0.01A	
6.8	Bus Live Voltage	5-100.00V	0.01V	
6.9	Incoming Line Live Voltage	5-100.00V	0.01V	
6.10	Bus Dead Voltage	5-100.00V	0.01V	
6.11	Incoming Line Dead Voltage	5-100.00V	0.01V	
7	**Inverse Time Protection Configuration**	–	–	
7.1	Inverse Time Protection	1/0	–	Inverse Time Protection: Enable(1) / Disable(0)
7.2	Inverse Time Delay T	0-120.00s	0.01s	
7.3	Inverse Time Current I	0.4-99.99A	0.01A	
8	**General Configuration**	–	–	
8.1	PT Circuit Break	1/0	–	PT Break Alarm: Enable(1) / Disable(0)
8.2	Locking Release upon PT Break	1/0	–	Release locking(1) / Maintain locking protection(0) when PT circuit breaks
8.3	Control Circuit Break	1/0	–	Control Circuit Break Alarm: Enable(1) / Disable(0)
8.4	Current Rating 1A Selection	1/0	–	Set 0 for 5A rated; Set 1 for 1A rated
8.5	Undervoltage Setting	5-100.00V	0.01V	For Stage 1/2/3 Compound Voltage Locking Function
8.6	Negative Sequence Voltage	5-100.00V	0.01V	Negative Sequence Voltage Setting

ORDERING INFORMATION

MOQ	LEAD TIME	TRADE TERMS	PAYMENT	WARRANTY
1 unit	7-15 working days	EXW / FOB / CIF / DDU	T/T, L/C, WU, PayPal	12 months