

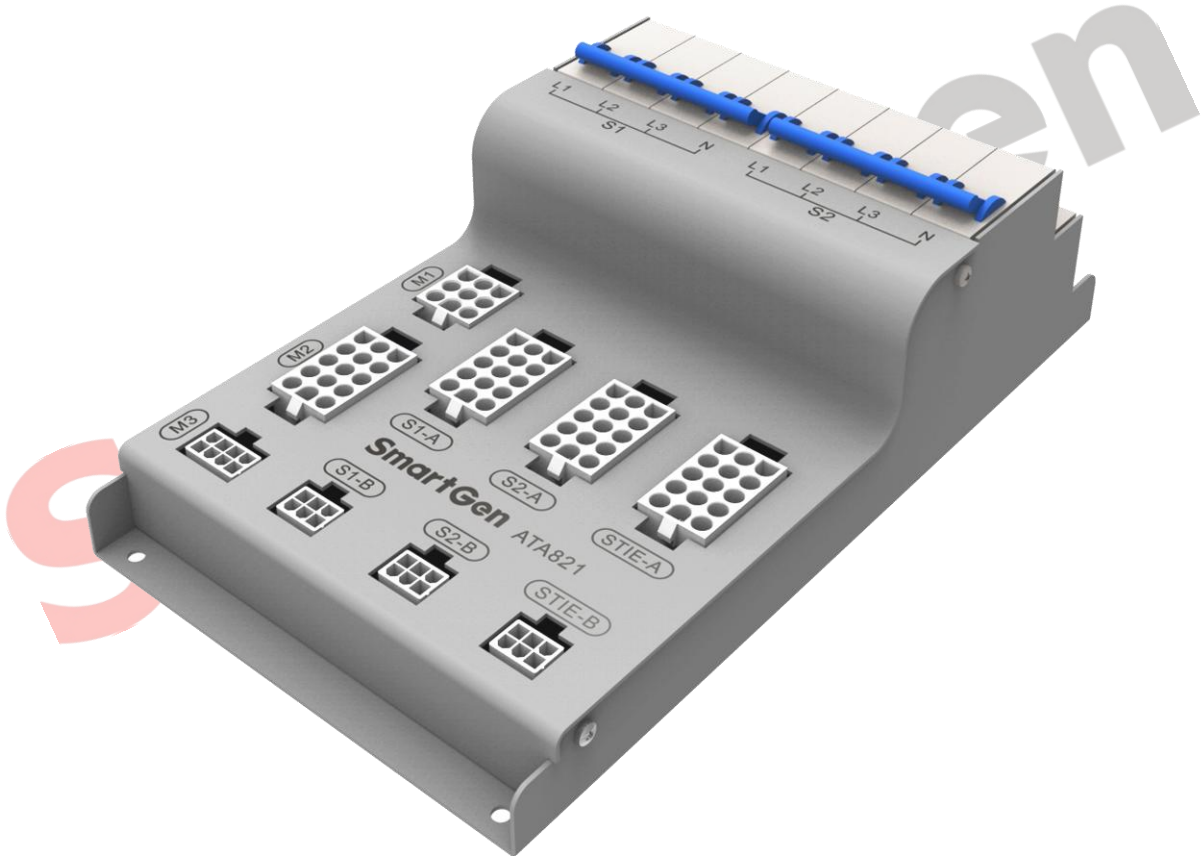


SmartGen
ideas for power

ATA821

BUS TIE ADAPTOR FOR DUAL POWER SWITCH

USER MANUAL



SMARTGEN (ZHENGZHOU) TECHNOLOGY CO., LTD.



Chinese trademark

SmartGen English trademark

SmartGen — make your generator *smart*

SmartGen Technology Co., Ltd.

No.28 Jinsuo Road

Zhengzhou City

Henan Province

P. R. China

Tel: 0086-(0)371-67988888/67981888

0086-(0)371-67991553/67992951

0086-(0)371-67981000(overseas)

Fax: 0086-(0)371-67992952

Web: www.smartgen.com.cn

www.smartgen.cn

Email: sales@smartgen.cn

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Table 1 Software Version

Date	Version	Note
2019-12-30	1.0	Original Release
2020-01-20	1.1	Upgrade



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1 OVERVIEW

ATA821 Bus Tie Adapter for Dual Power Switch is a kind of adapter which makes convenience for connection between HAT821 dual power bus tie ATS controller and smart breaker, reducing a lot of field wiring work for users, not only labor saving, time saving but also reliable.

2 PERFORMANCE AND CHARACTERISTICS

- Suitable for 3Ph 4W AC system;
- Two integrated 400V/50Hz/10A circuits of air breaker, which are individually used to connect two circuits of AC power;
- All-in-one integrated adaptor, which can simultaneously connect S1 breaker, S2 breaker and bus tie breaker;
- Suitable for HAT821 dual power bus tie ATS controller;
- Cold rolled plate closure;
- With screw installation method, adapter is fixed by 4 screws.

3 SPECIFICATION

Table 2 Performance Parameters

Item	Description
Rated Working Voltage	AC 400V 50/60Hz
Max Working Current	10A
Air Breaker	400V~ 50Hz 10A
Case Dimensions	144.4mmx252mmx75.3mm
Working Conditions	Temperature: (-25~+70)°C Humidity: (20~93)%RH
Storage Condition	Temperature: (-30~+80)°C
Insulation Strength	Apply AC1.5kV voltage between high voltage terminal and low voltage terminal and the leakage current is not more than 3mA within 1min.
Weight	1.6kg

4 PANEL DESCRIPTION

4.1 PANEL ILLUSTRATION

Panel illustration is as Fig. 1.

Two circuits of air breaker, connect separately with S1/S2 AC power.

Connector M1, M2, M3 need to connect to the side of HAT821 controller.

Connector S1-A, S1-B need to connect to the side of S1 breaker.

Connector S2-A, S2-B need to connect to the side of S2 breaker.

Connector STIE-A, STIE-B need to connect to the side of bus tie breaker.

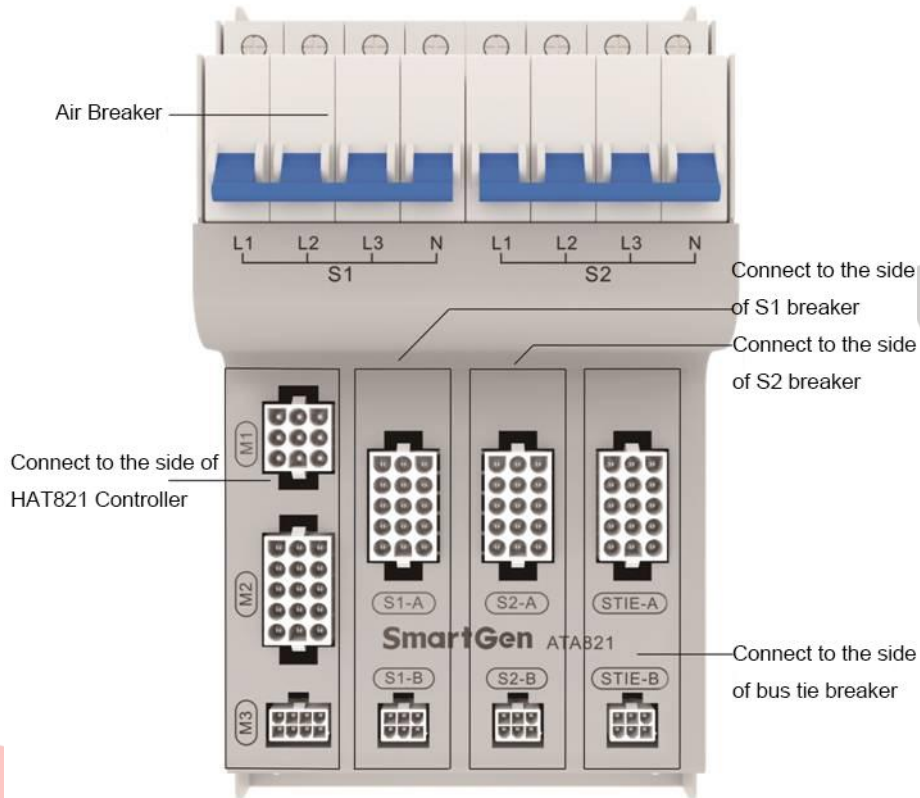


Fig. 1 Panel Instruction

4.2 CONNECTOR ILLUSTRATION

The pin numbers of connector terminals are as Fig. 2.

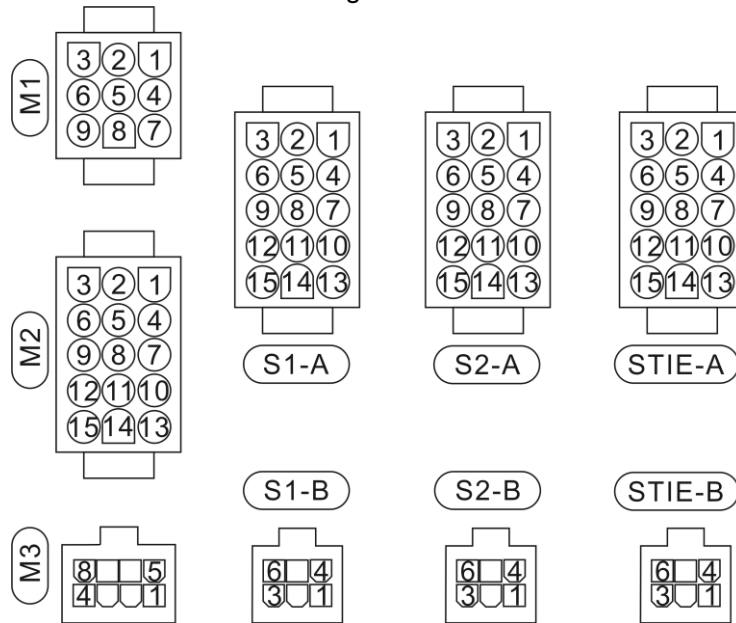


Fig. 2 Pin Numbers of Connector Terminals

Terminal Wirings of connector is as Table 3.

Table 3 Connector Wiring Illustration

Connector No.	Pin No.	Wire No.	Wire Harness No.	Connector No.	Pin No.	Wire No.	Wire Harness No.
M1	1	M-18	WH821-M-20-RM	S1-A	1	Q1-32	WH821-Q1-30RM
	2	M-19			2	Q1-28	
	3	M-15			3	Q1-27	
	4	M-20			4	Q1-35	
	5	NC			5	Q1-1	
	6	M-17			6	NC	
	7	M-21			7	Q1-33	
	8	M-22			8	Q1-30	
	9	M-16			9	Q1-2	
M2	1	M-4			10	Q1-24	
	2	M-14			11	Q1-36	
	3	M-1	12		Q1-29		
	4	M-10	13		Q1-41		
	5	M-11	14		Q1-25		
	6	M-3	15		Q1-42		
	7	M-2	S1-B	1	NC		
	8	M-9		2	Q1-4		
	9	M-5		3	Q1-22		
	10	M-6		4	NC		
	11	NC		5	Q1-23		

Connector No.	Pin No.	Wire No.	Wire Harness No.	Connector No.	Pin No.	Wire No.	Wire Harness No.
	12	M-7			6	Q1-5	
	13	M-8					
	14	M-12					
	15	M-13					
M3	1	M-29					
	2	M-30					
	3	M-41					
	4	NC					
	5	M-34					
	6	M-35					
	7	M-31					
	8	M-36					

NOTE: Connector S2-A and S2-B, STIE-A and STIE-B connected wire number starts with Q2, Q3; Others are the same with S1-A, S1-B, connected separately with WH821-Q2-30-RM and WH821-Q3-30-RM. For example: P1 wire number of connector S2-A is Q2-32.

Wire number definition:

Q1-1 例: Q1-1 means wire needs to connect to Terminal 1 of S1 breaker.



means wire needs to connect to corresponding terminal number of smart breaker;

means the position where wire needs to connect;

M means HAT821 Controller;

Q1 means S1 breaker;

Q2 means S2 breaker;

Q3 means bus tie breaker.

Wire harness definition:



means acronym of the factory;

means wire harness length, unit: m. e.g. 30 means 3.0m;

means the position where wire needs to connect; definition same as wire No.

5 APPLICATION DIAGRAM

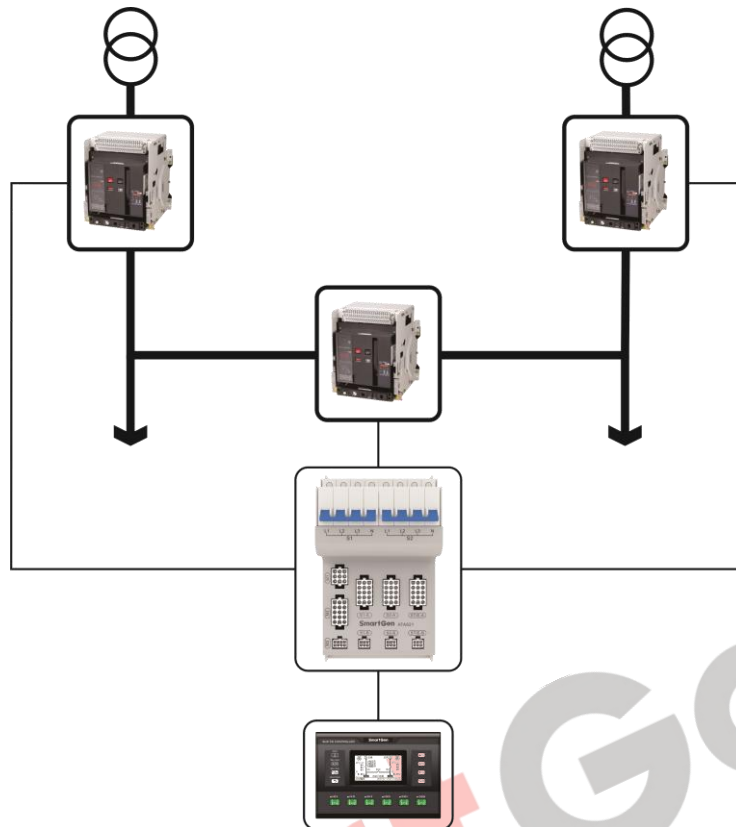


Fig. 3 Application Diagram

6 ACCESSORY ILLUSTRATION

The connected wire harness of this product is optional; Users can make clarification at ordering, note the harness requirements and breaker type.

7 CASE DIMENSIONS

This adaptor is designed by screw installation method, and is fixed by four screws at installation.

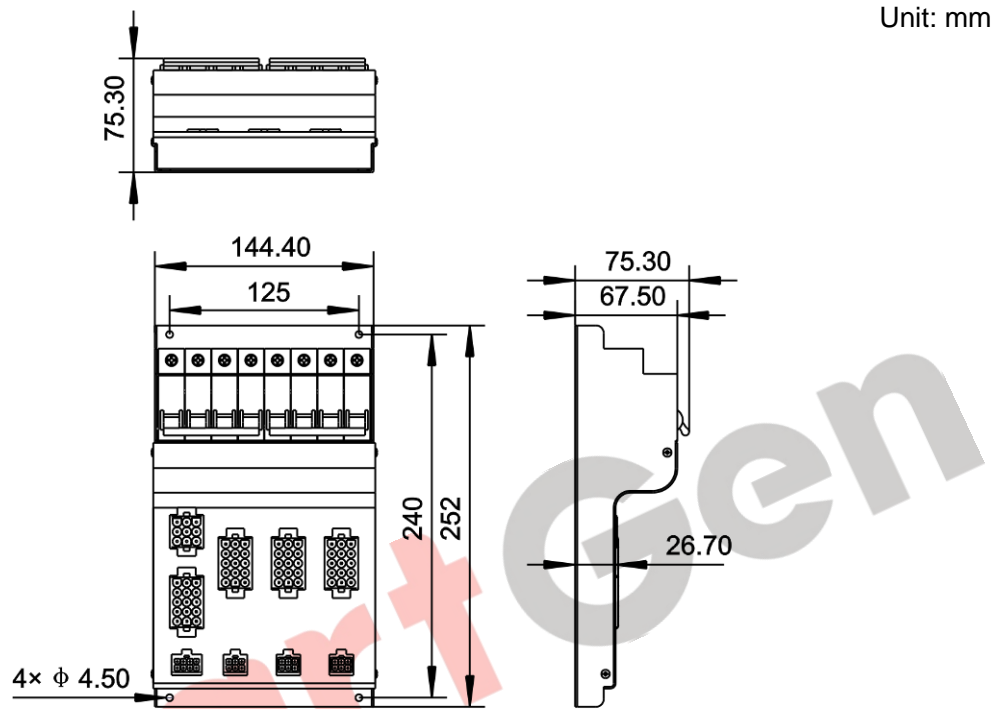


Fig. 4 Case Dimensions and Cutout