



Dual Power Automatic Transfer Switches **XSTNA Series**

SHIHLIN ELECTRIC & ENGINEERING

Overview

XSTNA Series is a PC-class three-position automatic transfer switching equipment. It is used in AC 400V power systems with rated current from 16A to 630A.

When one power source becomes abnormal, the device automatically transfers the load to the other power source to maintain reliable and safe power supply.

The device has three operating positions: Source I ON, Source II ON, and OFF. It is suitable for power systems that require reliable power continuity, such as hospitals, shopping malls, banks, chemical plants, metallurgy facilities, high-rise buildings, military facilities, and fire protection systems.

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The product complies with **IEC 60947-6-1** and **CE standards**.

Feature

- PC-class three-position design: Source I ON, Source II ON, and OFF.
- Automatic transfer between two power sources when an abnormal power condition occurs.
- Suitable for mains-to-mains and mains-to-generator power systems.
- Supports manual and automatic operation.
- Fire control function for emergency power systems.
- Generator start function available.
- LED indication for power source and closing status.
- RS485 communication available for D-type controller.

Automatic Transfer Switching Equipment

- The XSTNA-125/250 Series is a PC-class, three-position dual power automatic transfer switching equipment. It is mainly used in emergency power supply systems with AC 50Hz/60Hz, rated voltage of 400V, and operating current from 16A to 630A.
- When one power source becomes abnormal, the device automatically transfers the load to the other power source, ensuring reliable and safe power supply.
- It is widely applied in important facilities such as hospitals, shopping malls, chemical plants, metallurgy facilities, buildings, and fire protection systems.
- This product complies with CE standards.

Type Designation

XSTNA	-	125H	3P	B	125A		
Model		Frame Size	Pole	Controller Function Type	Rated Current	Power Source	Switch Mode
XSTNA	-	125H	3P / 4P	B / D	16, 20, 25, 32, 40, 50, 63, 80, 100, 125	Blank: Mains-Mains; F: Mains-Generator	Blank: Automatic Transfer / Automatic Return; S: Automatic Transfer / No Automatic Return (S only available for D controller)
		250H			125, 160, 200, 225, 250		
		630H			315, 350, 400, 500, 630		

Note: The Power Source mode / Transfer Mode is factory-set and cannot be adjusted by the customer.

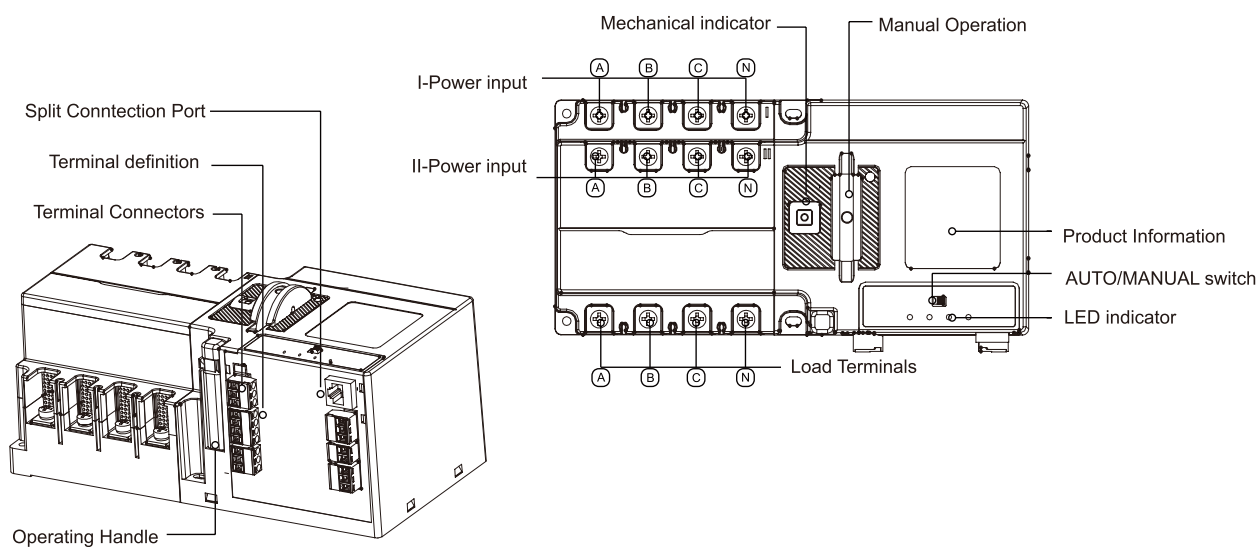
ATS Specification

Specification	XSTNA-125H		XSTNA-250H		XSTNA-630H	
Frame Size	125		250		630	
Insulation Voltage, Ui	AC800V		AC1000V		AC690V	
Rated Impulse Withstand Voltage, Uimp	8kV					
Rated Voltage, Ue	AC400V 50Hz					
Rated Current, In (A)	16A, 20A, 25A, 32A, 40A, 50A, 63A, 80A, 100A, 125A		125A, 160A, 200A, 225A, 250A		315A, 350A, 400A, 500A, 630A	
Pole	3P	4P	3P	4P	3P	4P
Contact transfer time (s)	0.58 ±20%		0.56 ±20%		0.9 ±20%	
Switching time (s)	1.4 ±20%		1.3 ±20%		2.0 ±20%	
Controller Function Type	B / D					
Rated short-circuit making capacity Icm (kA) peak	17kA				26kA	
Rated limited short-circuit current (Iq)	120kA					

Function List

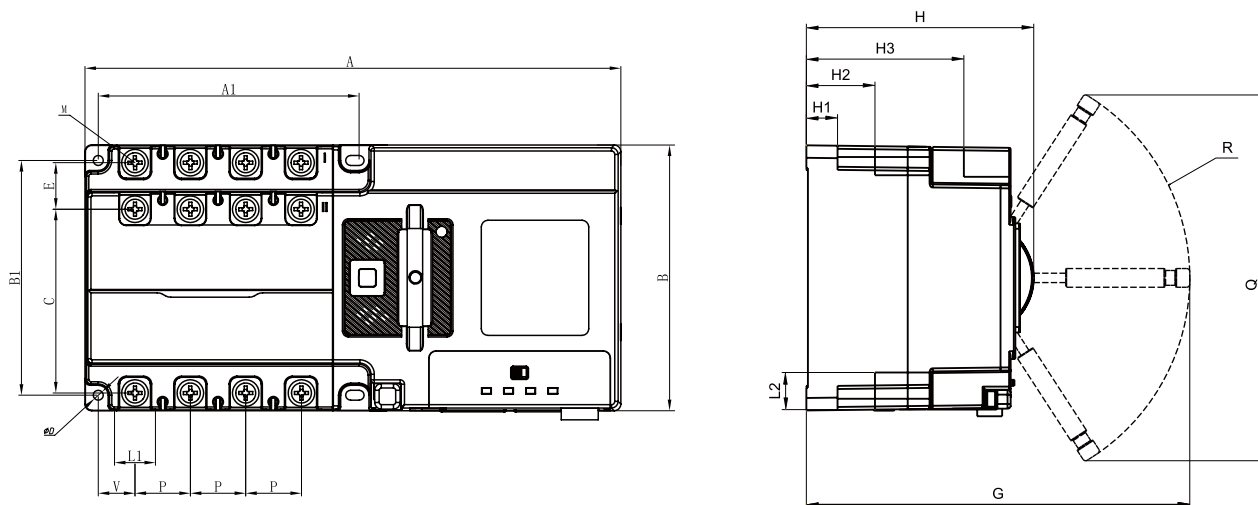
Item	B	D
Rated working voltage	AC230V/400V 50Hz/60Hz	AC230V/400V 50Hz/60Hz
Aux. power voltage	No	DC24V
Voltage measure range	No	40~300V
Power consumption	≤10W	≤10W
Working positions	(I-ON, II-ON, 0-OFF, three working positions)	(I-ON, II-ON, 0-OFF, three working positions)
Operating mode	Manual, Auto	Manual, Auto, Remote
Transfer mode	Auto transfer auto recovery	Auto transfer auto recovery / Auto transfer without auto recovery
Under voltage range	No	Default 176V (165V~218V Adjustable)
Over voltage range	No	Default 264V (242V~298V Adjustable)
Over/under Frequency	No	40Hz~60Hz Adjustable
Exerciser Timer	No	Engine Exercier
Transfer delay	No	No delay (0~180s Adjustable)
Recovery delay	No	No delay (0~180s Adjustable)
Phase lost monitoring	Source I three phase, Source II single phase	(A/B/C/Both Three phase detect)
Generator control	No	Yes(One set relay dry contact)
Fire-linkage control	DC24V	Forced 0-OFF position(Voltage-free input / feedback signal)
RS485 Communication	No	Yes
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Installation mode	Integrated(No display)	Integrated/Separated with display optional

Appearance



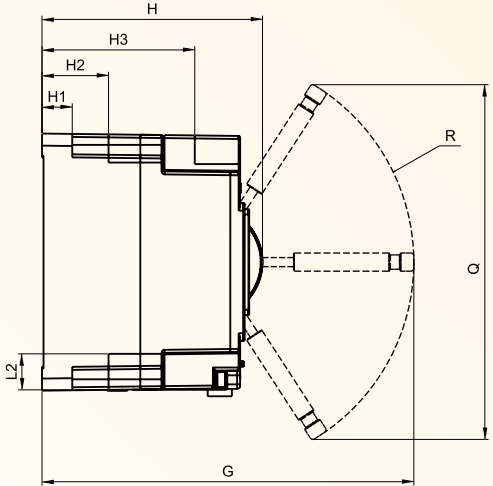
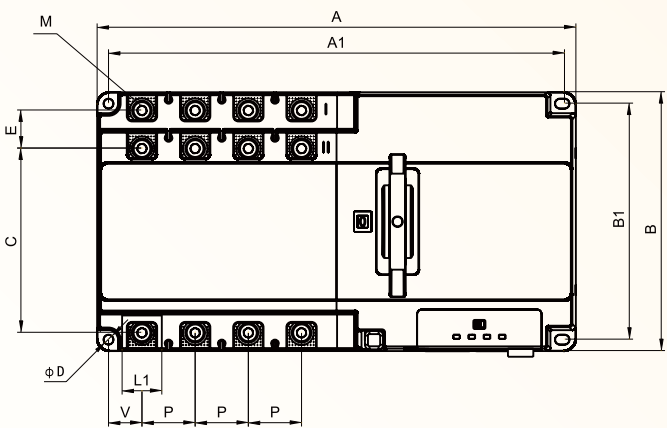
XSTNA-125H / XSTNA-250H / XSTNA-630H

Dimensions



XSTNA-125H Dimensions

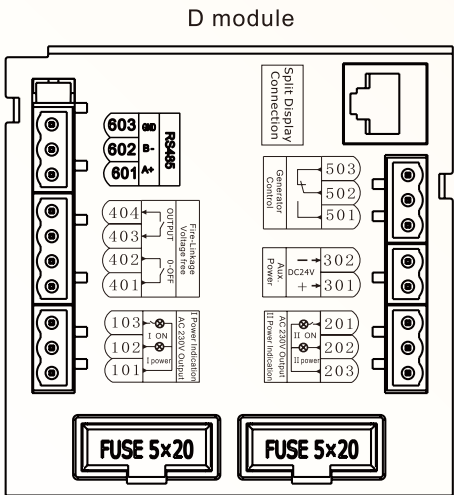
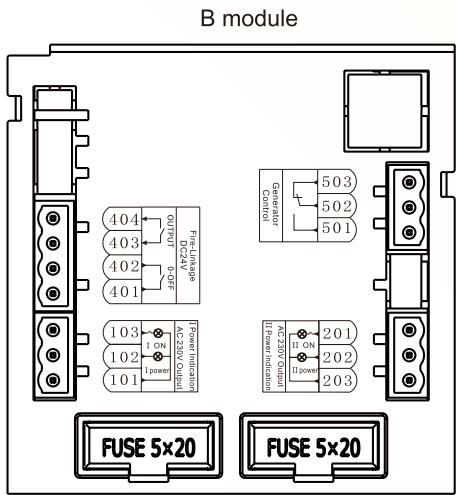
Dimensions



Spec	Outline size (mm)			Mounting size (mm)													Operating space (mm)		
In	A	B	H	A1	B1	H1	H2	H3	L1	L2	C	E	V	P	D	M	G	R	Q
125	242	120	115	116	106	15.5	33	82.2	18.5	19	83	21	16.6	25	φ 4.5	M6	196	106	194
250	315	170	146	298.5	155	20	44	101	26	24	121	25	22	35	φ 6.3	M8	246	137	235
630/3P	417	230	202	386.5	203	16.5	62	130	48	32.6	173	27	45.5	58	φ 8.5	M10	305	163	240
630/4P	475	230	202	444.5	203	16.5	62	130	48	32.6	173	27	45.5	58	φ 8.5	M10	305	163	240

XSTNA-250H / XSTNA-630H

External Terminal Interface Definition



- 101: I-power Neutral Line
102: I-power available indicator
103: I-power Close indicator
401: Fire-linkage input(DC24V)
402: Fire-linkage input(DC24V)
403: Fire-linkage output (DC24V)
404: Fire-linkage output(DC24V)
- 201: II-power Neutral Line
202: II-power available indicator
203: II-power Close indicator
501: Gen. control NO point
502: Common point
503: Gen. control NC point

- 101: I-power Neutral Line
102: I-power available indicator
103: I-power Close indicator
301: DC24V +
302: DC24V -
501: Gen. control NO point
502: Common point
503: Gen. control NC point
- 201: II-power Neutral Line
202: II-power available indicator
203: II-power Close indicator
401: Fire-linkage input(passive)
402: Fire-linkage input(passive)
403: Fire-linkage output (passive)
404: Fire-linkage output(passive)
601: RS485 -A+
602: RS485 - B-
603: RS485 - GND

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T. +886-2-2541-9822 F. +886-2-2581-2665

e-mail. b.export@seec.com.tw

<http://circuit-breaker.seec.com.tw>

Headquarters

16F, No.88, Sec. 6, Zhongshan N. Rd., Shilin Dist., Taipei City 11155, Taiwan

T. +886-2-2834-2662 F. +886-2-2836-6187

<http://www.seec.com.tw>

Distributor

B260702E.ATS-PC-XSTNA-OB