Abest Electric | Product User Manual |

AS-XSJ Intelligent Star-Delta Controller

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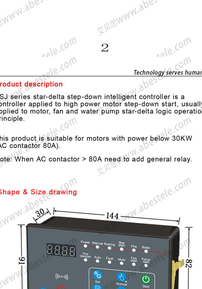
Product description

XSJ series star-delta step-down intelligent controller is a controller applied to high power motor step-down start, usually applied to motor, fan and water pump star-delta logic operation principle.

This product is suitable for motors with power below 30KW (AC contactor 80A).

Note: When AC contactor > 80A need to add general relay.

Shape & Size drawing



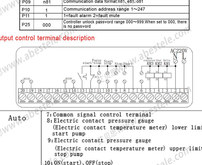
Terminal description

Terminal No.	Description
1	Working power supply AC220V live line(L)
2	Working power supply AC220V Neutral line(N)
3	Delta contactor coil control terminal
4	Star contactor coil control terminal
5	Delta contactor coil control terminal
6	Fault output AC220V
7	Common signal control terminal
8	Automatic signal control terminal
9	Automatic signal control terminal
10	Automatic signal control terminal
11	Automatic signal control terminal
12	Fire damper/no fire damper short-connected
13	Fault protect(factory default NO)
14	
15	Fire start-stop(DC24V)
16	Common signal control terminal
17	Passive contact/Auto(NO) / Manual(NC)
18	Passive contact/Manual(NO) / Fault(NO)
19	
20	Force start-stop(DC24V)

Parameter setting

Code	Factory default	Description
P01	1	1=Basic fault shutdown 2=Fire fault only alarm without stopping output
P02	1	Fault protection type select 1=NO 2=NC
P05	1	1=31S1 terminal function select 1= Automatic/ feedback 2= Normal/fault feedback
P06	7	Star start time range 1~30S
P07	3.5	Transfer delay time range 0.1~5.0
P08	9600	Communication baud rate 2400, 4800, 9600
P09	01	Communication data format n1, n81, e81
P10	1	Communication address range 1~247
P11	1	1=Fault alarm 2=Fault close
P25	000	Controller unlock password range 000~999 When set to 000, there is no password

Output control terminal description



Control Key

Set	Setting parameter code and parameter values
Save	Save the modified parameter values and exit the setting
Manual	Manual mode selection, parameter code increment, parameter value increment
Auto	Auto mode selection, parameter code decrement, parameter value decrement
Start	Pump start key in manual mode, Set password or unlock shift mouse
Stop	Pump stop key in manual mode. Set password or unlock shift mouse

Indicator

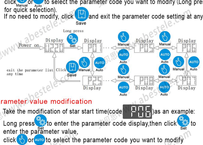
•Power	Indicator blink on the controller is powered on
•Fire damper	Indicator ON Fire damper(NC) switch to (NO)
•Manual	Indicator ON in manual mode
•Auto	Indicator ON in Auto mode
•Running	Indicator ON running
•Fault	Indicator ON Fault
•Star start	Indicator blink on in star-delta transition, light off when complete
•Mute	Indicator on code P11=2(fault alarm without sound)
•Fire	Indicator on code P01=2(fault only alarm without stopping output)
•Fire start	Indicator on code P01=1(fault shutdown)
•Fault	Indicator on code P01=1(fault shutdown)
•Force start	Indicator on-switch-on force start-stop(DC24V)

Parameter code setting

Long press Set to enter the parameter code display,

click Manual or Auto to select the parameter code you want to modify (Long press for quick selection).

If no need to modify, click Save and exit the parameter code setting at any time



Parameter value modification

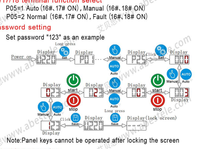
Take the modification of star start time(code P06) as an example:

Long press Set to enter the parameter code display,then click Manual or Auto to enter the parameter value,

click Start or Stop to select the parameter code you want to modify

(Long press for quick selection).

Modified, click Save to save & exit the parameter value setting at any time



16/17/18 terminal function select

P05=1 Auto (16#, 17# ON) , Manual (16#, 18# ON)

P05=2 Normal (16#, 17# ON) , Fault (16#, 18# ON)

Password setting

Set password "123" as an example

Note:Panel keys cannot be operated after locking the screen

Unlocking operation