

Abest Electric | Product User Manual |

AS-SP1 Intelligent Water Pump Controller



ABEST ELECTRIC CO.,LTD.

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The contents of the user manual mentioned is for reference only.

The software may be changed or upgraded without prior notice.

For more details, please visit the Company's website or contact the Company directly.

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Product description

Single intelligent Controller is mainly used in fire pump, domestic feed pump, hot water circulation pump, freezing (cooling) pump, drainage pump start and stop.

It can also be applied to a variety of load control such as motors. There are float switch, pressure switch, flow switch, liquid level relay, electric contact pressure gauge and electric contact temperature meter and other automatic control methods.

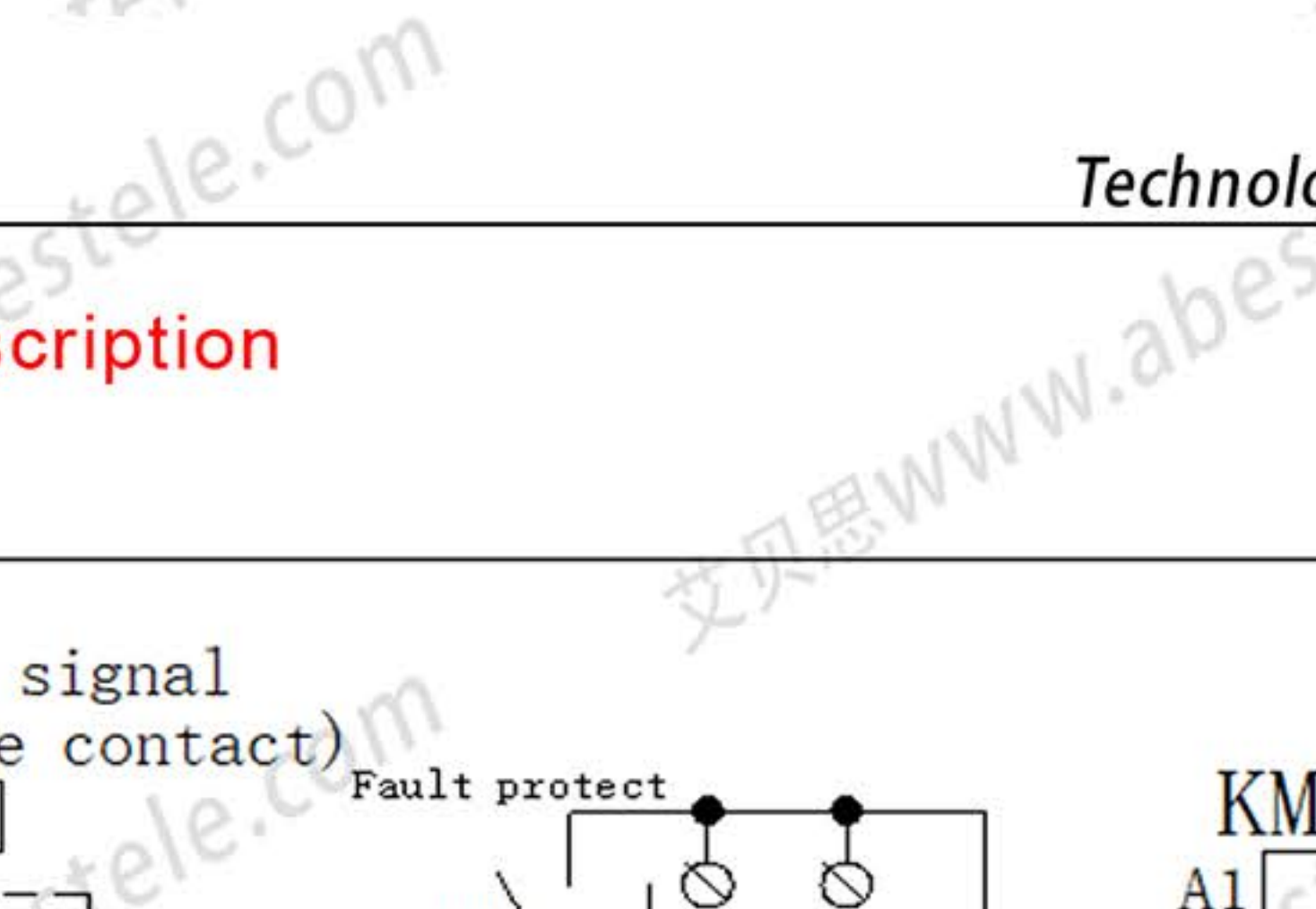
This product is suitable for motors with power below 22KW (AC contactor 50A).

Note: When AC contactor > 50A need to add general relay.

Technical Parameter

Power supply(V)	AC220V
Rated frequency(Hz)	50/60Hz
Input power(W)	3W
Ambient temperature	-25℃~+55℃
Relative humidity	≤95%RH
Relay contact capacity	3A/250VAC
Protection level	IP43

Shape & Size drawing

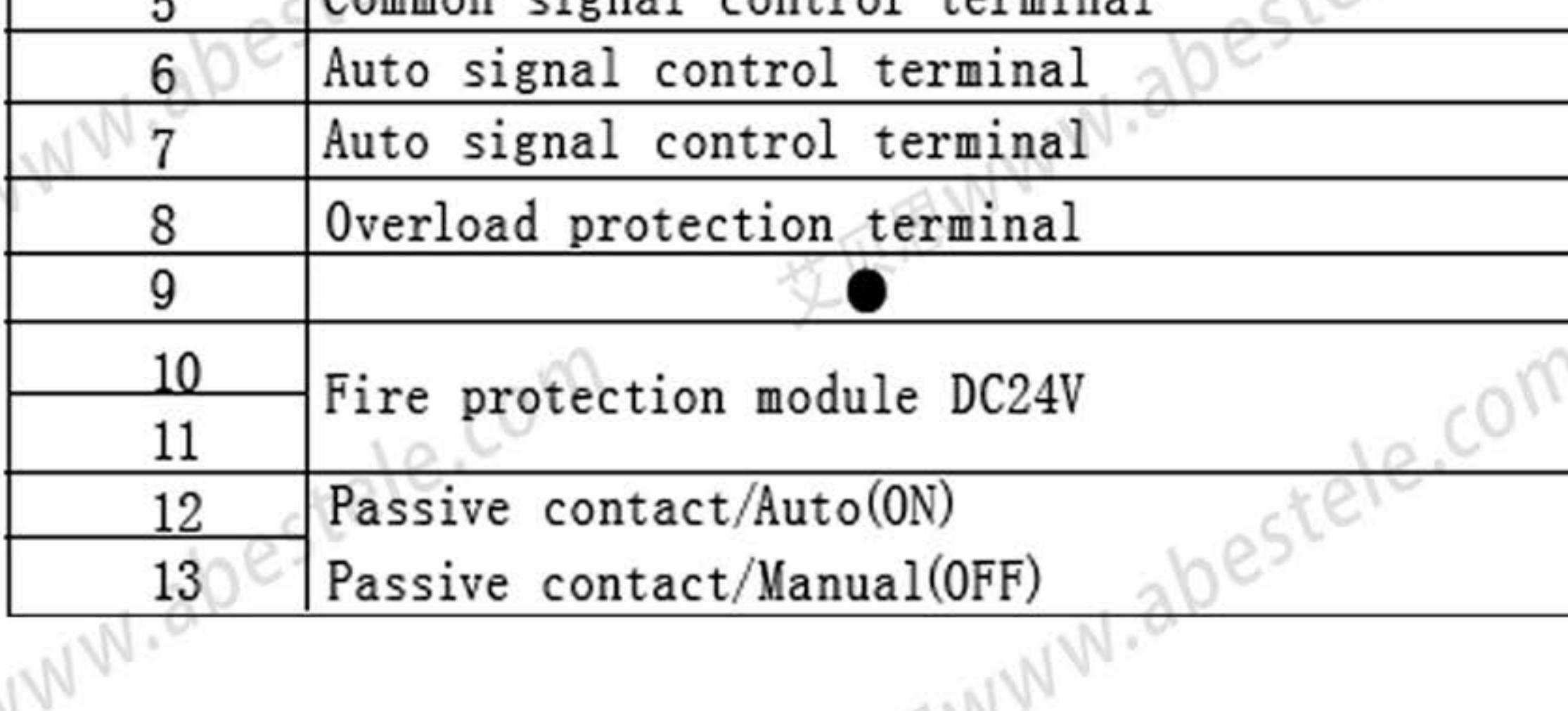


Hole Size:145×83

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Terminal description

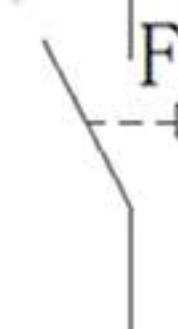


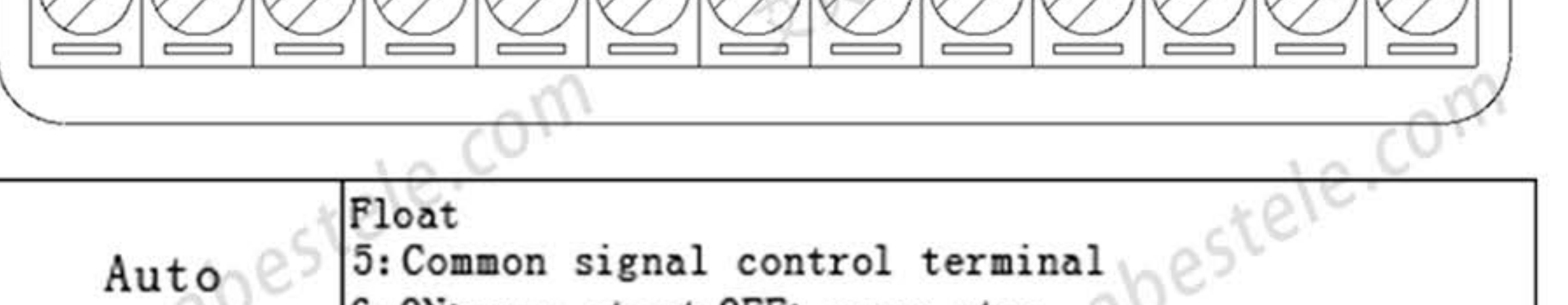
Terminal No.	Description
1	Working power supply AC220V Live line(L)
2	Working power supply AC220V Neutral line(N)
3	Contactor coil control terminal
4	
5	Common signal control terminal
6	Auto signal control terminal
7	Auto signal control terminal
8	Overload protection terminal
9	
10	Fire protection module DC24V
11	
12	Passive contact/Auto(ON)
13	Passive contact/Manual(OFF)

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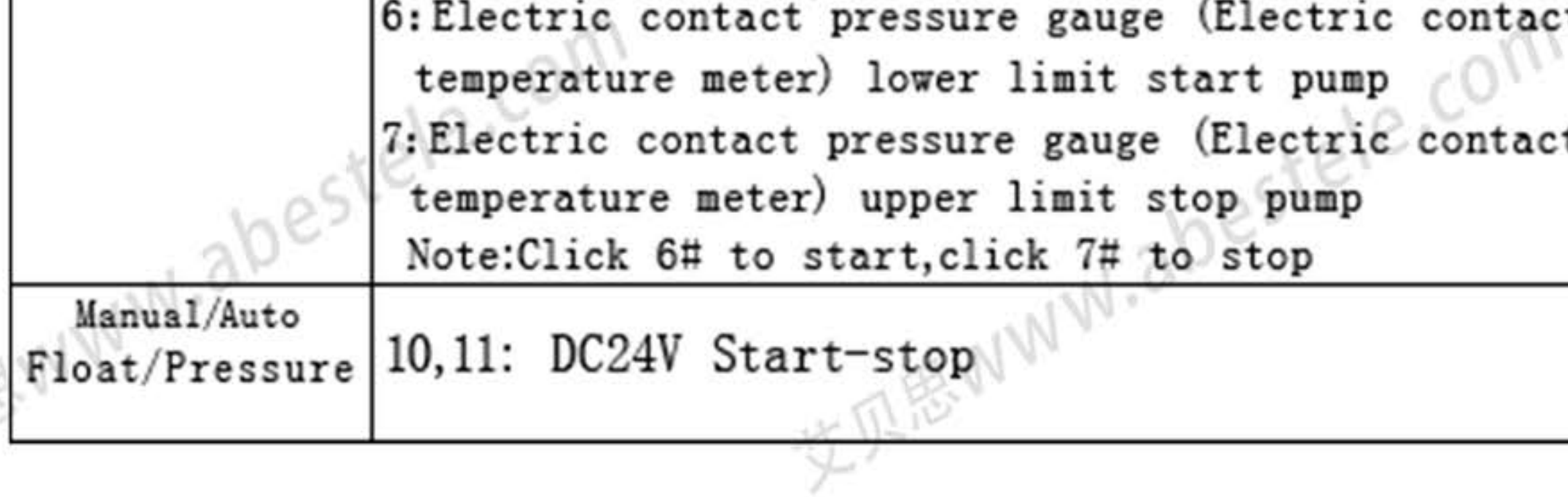
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Switch between float mode and pressure mode

In Auto mode, long press  for more than 5 seconds, switch between float mode and pressure mode



Output control terminal description



Auto	Float
	5: Common signal control terminal
	6: ON: pump start, OFF: pump stop
	7: ON: buzzer alarm
Pressure	5: Common signal control terminal
	6: Electric contact pressure gauge (Electric contact temperature meter) lower limit start pump
	7: Electric contact pressure gauge (Electric contact temperature meter) upper limit stop pump
	Note: Click 6# to start, click 7# to stop
Manual/Auto Float/Pressure	10, 11: DC24V Start-stop

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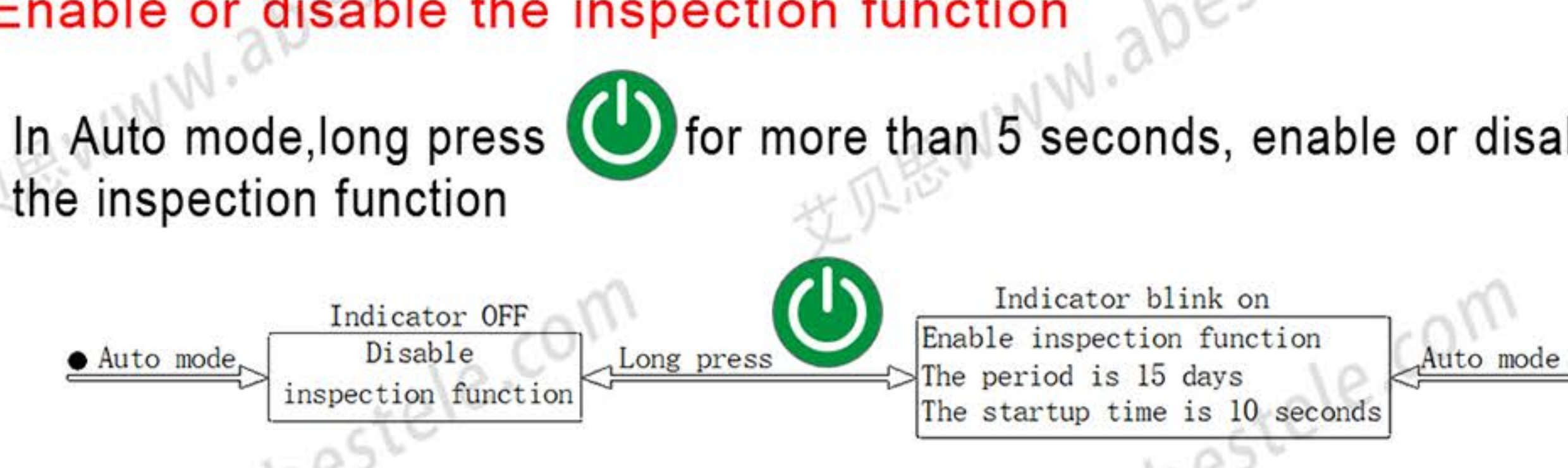
Control Key

	Manual mode selection
	Auto mode selection
	Start key of the pump in the manual mode
	Stop key of the pump in manual mode
	In manual mode, long press the stop key to enter the automatic inspection test function

Indicator

● Power	Indicator blink on: the controller is powered on
● Inspection	Indicator blink on: the inspection timing function is enabled. OFF: the inspection is closed
● Manual	Indicator ON: in manual mode
● Running	Indicator ON: pump running
● Auto	Indicator ON: in Auto mode
● Fault	Indicator ON: pump faulty
● Floater/Pressure	Indicator ON: in pressure mode, OFF: in float mode

Switching of fault protection mode



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Enable or disable the inspection function

In Auto mode, long press  for more than 5 seconds, enable or disable the inspection function



Inspection test method

After inspection test is enabled, in manual mode, long press  for more than 5 seconds to enter the automatic inspection test function

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