Shanghai AOYI Electric Co., Ltd.
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AOYI®

B1/B2-33-PA Power Regulator User Manual

▲Feature

★Full digital operation and temperature display function

★Phase shift voltage regulation and zero-through adjustment can be switched

★Provide input command and failure alarm function

★Built-in fast fuse with over-current protection function

▲Product Capability

Rated Voltage: three-phase 380VAC(three phase three wire)

Auxiliary Power: phase output/zero-crossing output(switching of two modes)

Control Signal: 4-20ma,0-5vdc,0-10vdc(switching of three signals)

Input Impedance: 4-20ma(240 Ω),0-5vdc(30K),0-10vdc(12K)

Protection Function: fast fuse

Display Function: SCR working state,the body temperature and LED display fault

Operating Environment: temperature: less than 45℃ ; humidity: less than 90%RH

▲Product Model

Model		B1-33-PA	B2-33-PA
Rated Current		25A 40A	75A 90A
Overall Dimension (mm)	W	115	115
	L	165	235
	H	170	170
Installation Dimension	W	105	105
	L	95	160

▲Picture

*B2-33-PA

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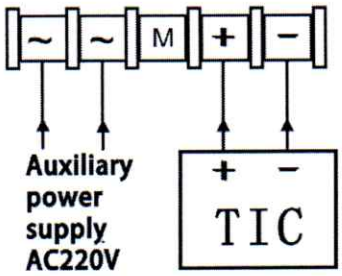
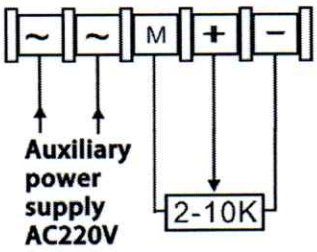
▲Examples of Connecting Circuit

1.Automatically adjustment

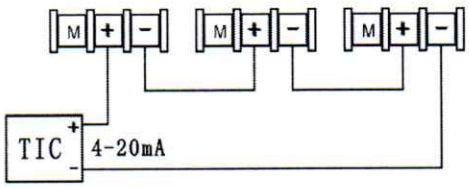


2.Manual adjustment

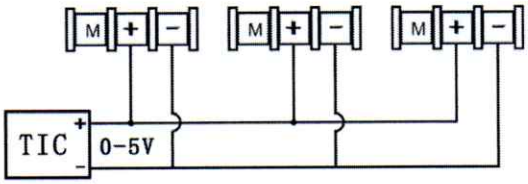


Switching to control mode2: 0-5V

3.4-20ma signals in series(up to three)



4.0-5V signals used in multiple series and parallel(up to three)



▲Parameter Setting Mode

Conventional Interface

Long press "Mode" → to enter

← 0t short press"Mode"→tY→short press▲▼ tG→

Short press▲▼

←Hq short press"Mode"→0→short press▲▼100→

Short press▲▼

←Ho short press"Mode"→50→short press▲▼100→

Short press▲▼

←Lo short press"Mode"→0→short press▲▼49→

Short press▲▼

←nL short press"Mode"→Y→short press▲▼n→

←Long press "Mode" to exit

Short press "SEL" →

Sure to save(flashing stop)

The parameters can only be adjusted when the above five items show flicker

Code	Code meaning	Factory default
0t	Output mode: tY stands for voltage regulating and tG stands for power regulating	tY pressure regulating
Hq	Slow start time: adjustable range 0-100 seconds	0 seconds
Ho	Maximum limit output: adjustable range 50-100%	100%
Lo	Minimum output limit: adjustable range 0-49%	0%
nL	Lock menu: Y lock,n unlock	Y
Err	Phase code display	/

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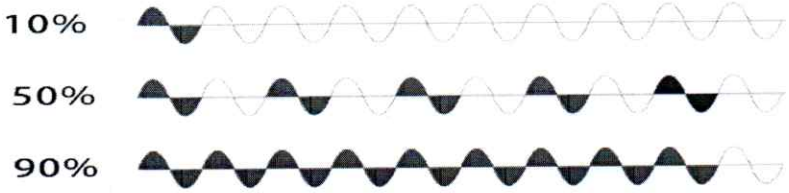
*Zero-crossing regulating power output

Advantages: no harmonic wave,the power factor which can reach the highest without half wave component.

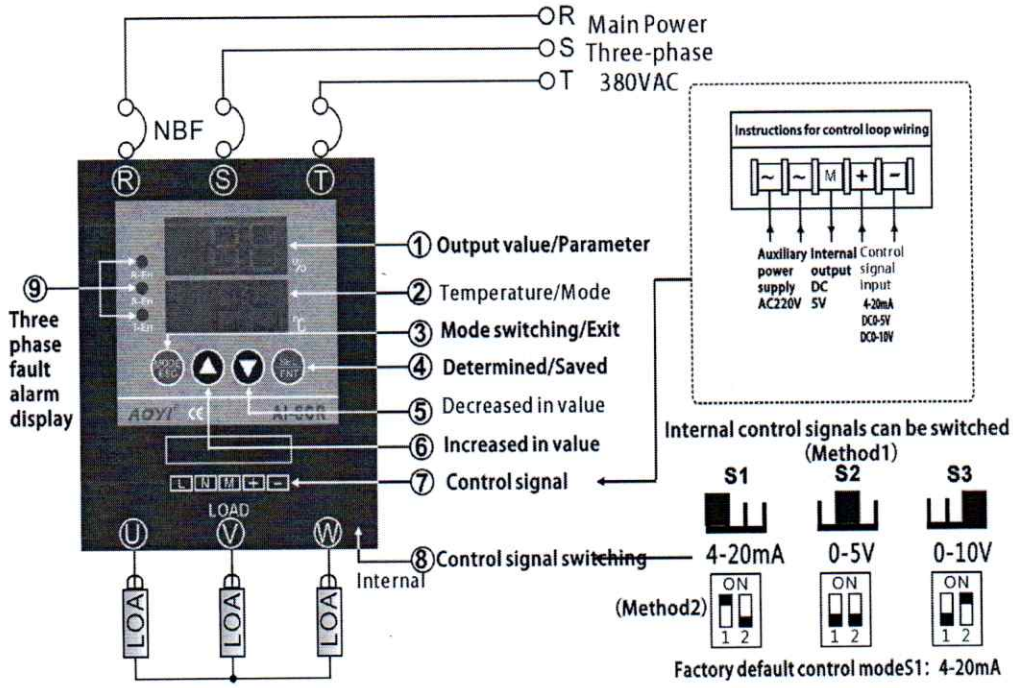
Disadvantages: only applicable to the constant load, and the ammeter will be shaking when output.



▲Installation Attentions

1. The main circuit adopts three-phase three-wire input without requirement for phase sequence.
2. Applicable load: Constant impedance, IR far-infrared Ray, UV lamp, etc.
3. For Y connection load, the center must be connected with zero line, if not so, relative equilibrium of three-phase must be required, or SCR will be burned.
4. SCR is wall-type, vertical installation ensures excellent heat dissipation.
5. SCR is a product with big current, please keep in mind that terminals (R.S.T) and (U.V.W) shall not be lock tightly, or SCR will be burned by terminal heating.
6. During the use of module, when the load power is more than 15KW, it's best to be equipped with proper radiator, and heat conducting silicon grease should be coated between radiator and SCR backboard with wind cooling.
7. Module protection: Please use semi-conductive fast fuse for load over current.

▲Panel Explanation



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*B1-33-PA

▲Warning

1. Three phase three wire input is adopted in the main circuit without phase sequence requirements.
2. SCR is wall-mounted,and vertical installation can achieve the best heat dissipation effect.
3. SCR is high-current product,please keep in mind that terminals (R.S.T) and (U.V.W) should be locked tightly,otherwise it will cause heating of terminals and result in SCR burning.
4. When the body temperature exceeds 85 ℃ ,SCR stop output.When temperature drops to 70 ℃ ,SCR return to work(show"H" and flicker when over-temperature.)
5. When the load is not in use,disconnect the control signal to make the SCR output be zero,and then cut off the power supply of the main circuit.

6.Operating Environment: please use in a well-ventilated environment free from direct sunlight or thermal radiation and corrosion or flammability.

警告 Warn		
	It is strictly forbidden to touch the terminals and probe the pointed metal objects into the body parts when energizing to avoid the risk of electric shock.	
	Do not touch the case during or just after the power is off to avoid scalding due to excessive surface temperature.	
	SCR is high-current product, please make sure to tighten the screws so as to avoid fire caused by loose screws.	
	It is strictly forbidden to disassemble and reconstruct the finished product to avoid the risk of failure, electric shock and fire.	

▲Output Wave

*Phase regulating voltage output

Advantages: applied to fixed resistance,variable resistance load and lighting regulation.Continuous output without interruption.

Disadvantages: harmonic wave will be generated when triggered.