Edited by Foxit PDF Editor
Copyright (c) by Foxit Software Company, 2003 - 2009
For Evaluation Only.

TAISEE

The labor controls the electronic products comprehensive catalog

Temperature controller.

Several signal switches.

Counts the explicit electric power adjuster.

Simulation type simple. The energy conservation soft starter (is suitable for three-phase motor)

The energy conservation soft starter (is suitable for three-phase motor)

The energy conservation soft starter (is suitable for three-phase motor)

The labor controls the part specialized manufacturer

(Taiwan)TAISEE ELECTRONIC CO.,LTD

Edited by Foxit PDF Editor
Copyright (c) by Foxit Software Company, 2003 - 2009
For Evaluation Only.

The company introduces

(The specialty is engaged in the industry automatic control part research and development production.
Insistence (quality first. The technological innovation) promotes the product quality and the market competition unceasingly Strength.
Development production above the price in value.
Industrial automation control product

Product

- 1. high function several demonstration electric power adjuster
- 2. general simulation type electric power adjuster (SCR)
- 3. big electric current solid state relay (SSR)
- 4. (PID) wisdom calculation function. Temperature control list
- 5. several type energy conservation (motor). Electrical machinery soft starte
- 6. multistage output. Has the communication function. The voltmeter
- 7. multistage output. Has the communication function. Ampere meter
- 8. many kinds of (input. Output) pattern. Frequency meter
- 9. many kinds of (the input. Output) pattern. Ratemeter/line speed table
- 10. high function (multistage output belt multiplication and division function) Registers
- 11. (signal switch) card axle type: Temperature switch
- 12. (signal switch) card axle type: Frequency switch
- 13. (signal switch) card axle type: The simulation signal transforms
- 14. (signal generator) high speed: Rice wheel/yard wheel

Edited by Foxit PDF Editor
Copyright (c) by Foxit Software Company, 2003 - 2009
For Evaluation Only.

SCR

T6 several demonstration electric power adjuster

T6 series uses the most advanced chip core/distance scale lasting accuracy to reach 0.1%

all control mode to be possible to establish the change by the software program, cannot any short circuit and the wiring, The use elasticity is more convenient/the demonstration to use the LED man-machine contact surface demonstration immediate demonstration

The SCR active status/omni-directional exceptionally demonstrates the function/consummation safekeeping of security measure

Omni-directional promotion detection function and safekeeping of security

May establish the three-phase current alone. Automatic detection load (broken line. Short circuit. Earth).
Exceptionally has immediately the warning. And stops the output (limits the electric current. Decides the electric current. Decides the voltage) and so on function working load scope Guan

Origination (zero position. The phase) the software may change the hypothesis, the phase start zero position revolution

But because the load is different. The change output pattern/(three-phase all controls the type. The single-phase type) may the zero position. The phase changes the hypothesis willfully The revolution way may multiple suppose.
(phase start zero position. The zero position starts the phase revolution) and so on special function;
Is only restricted in three-phase all controls and The single-phase type, only then has above function

The input mode use software establishes freely

Origination kneading board KEY control output/input mode altogether ten kind of /KEY/Dip/0~20mA/4~20mA/0~5V/1~5V 0~10V/2~10V/RS485/and so on may change freely by the keyboard

Wide range working voltage

In main supply voltage scope AC180V~AC600V all may use/content foreword tracing, therefore does not have the foreword question Special voltage range AC10V~AC180V OR the AC600~1200V special voltage may order

RS485 COMMUNICATION FUNCTION

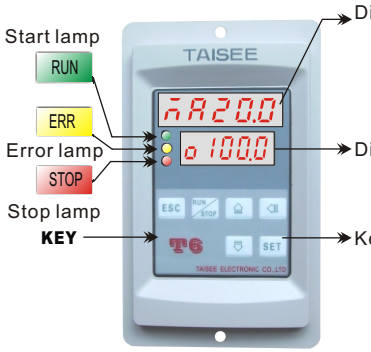
MODBUS the RS485 communication outputs the SCR condition promptly controls The SCR active status to PC and PC

Edited by Foxit PDF Editor
Copyright (c) by Foxit Software Company, 2003 - 2009
For Evaluation Only.

Several demonstrate the high function electric power adjuster

The quality is stable; Does not have any disturbance question, many kinds of input output pattern hypothesis, the entire digitizing system, controls warm accurate, the function is complete

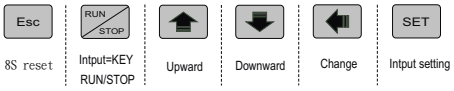
Wisdom:KEY display The operating function contact suface



Display:Input mode(KEY or rs485)display input (I 0.0%~100.0%)
Input mode(0~20mA or 4~20mA)display (mA 0.0mA~20,0mA)
Input mode(0~5V or 0~10V)display (V 0.0V~10,0V)
Output mode(constant current)display (A 0.0A~700A)
Output mode(constant voltage)display (V 0.0V~600V)

Display:Output mode(zero or phase)display otput (o 0.0%~100.0%)
Output mode(constant current)display (A 0.0A~700A)
Output mode(constant voltage)display (V 0.0V~600V)

Keyboard:Function hypothesis and parameter revision



ET6-1-030

Simple single-phase: Type Et6
Voltage range: AC180~480V
current range: 20A~40A

ET6-3-030

Simple three-phase: Type Et6
Voltage range: AC180~480V
current range: 20A~40A

ST6-1-4-030P

Compact single-phase:Type
Voltage range: AC180~600V
current range: 25A~60A

ST6-4-4-030P

Compact three-phase: Type
Voltage range: AC180~600V
current range: 25A~60A

T6-1-4-075P

Single-phase: Type T6
Voltage range: AC180~600V
current range: 30A~80A

T6-1-4-125P

Single-phase: Type T6
Voltage range: AC180~600V
current range: 100A~800A

T6-4-4-100P

Three-phase: Type T6
Voltage range: AC180~600V
current range: 50A~175A

T6-4-4-400P

Three-phase: Type T6
Voltage range: AC180~600V
current range: 200A~800A

Product characteristic

Is suitable general in: The request control domain, can the accuracy control temperature, (the general pure resistance silk .IR infrared tube. Transformer load.
Change load. Decides the voltage. Decides the electric current. Limits the electric current. Decides the power). And so on functions are suitable each kind of load characteristics
The PC board uses pastes the piece part, and special moisture-proof moisture protection dustproof corrosion resistance processing,
the brand-new PC side operates the cabinet, artistic security The kneading board LED demonstration electric power adjustment active status and the breakdown reason,
facilitate monitor and service, PC board working voltage AC220V, in main power source wide range voltage AC180V~6000V all may use St6 T6 entire series:
Installs the high speed fuse and the overheated stop output protection switch, protects the electric power adjuster. ,

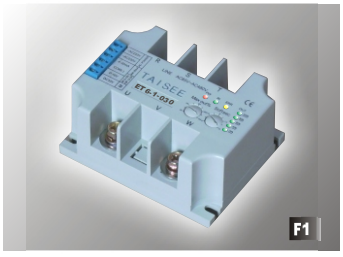
(three-phase automatic foreword tracing, 50ZH/the 60HZ automatic identification) does not have around the foreword the question

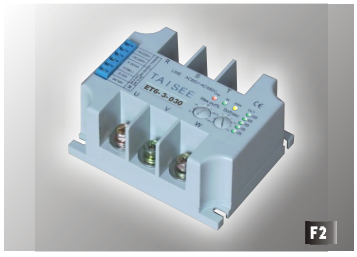
Edited by Foxit PDF Editor
Copyright (c) by Foxit Software Company, 2003 - 2009
For Evaluation Only.

Et6 (phase control) is suitable for: Generally load. Infrared IR tube. Transformer load

Notice of safety

1: When use must install the radiator. If environment hyperpyrexia. Perhaps radiation bad when. Please install radiates the ventilator
2: Electric power adjuster. The main return route must the external connection high speed fuse. Protects the internal semiconductor





Product characteristic:

1: Simple (miniaturization) SCR. low unit price first choice
2: Content excess temperature examination protection
Surpasses 85 C stop output
3: Kneading board many indicating lamps. Demonstration active
Active status. The convenience examination services
4: Kneading board direct demonstration output percentage. Monitors easily
5: Uses covers the separation formula design up and down. T
May service reduces the customer cost
6: The kneading board may the positive governing maximum output
quantity 0~100% and the slow starting time adjusts 0~10Sec

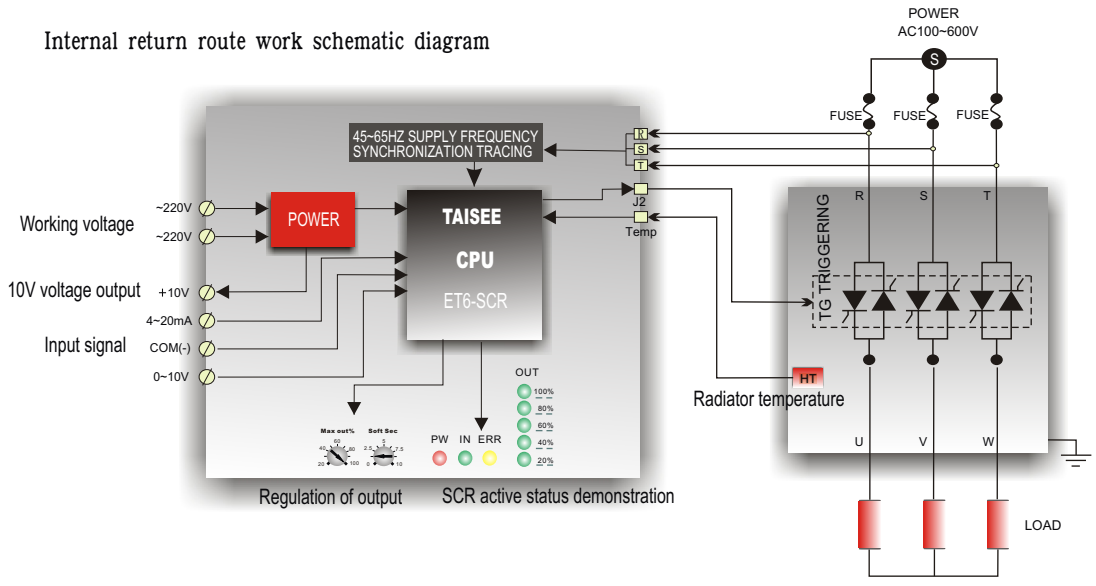
P (proportion type phase control): Is suitable The common resistance wire ,IR tube. Induction reactance load	
30%OUT	
50%OUT	
90%OUT	

Output state Outputs the stable linearity to be good, the ampere meter does not vibrate, output precision 0.1%, non-wave tilt disturbance phenomenon

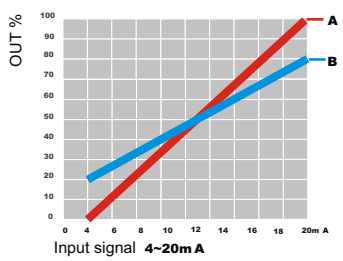
Load characteristics Decides the resistance wire filament, the light control, the inductive load, changes the resistance heating element hurriedly, the infrared tube.

Suitable situation Electric stove, infrared oven, temperature change fast keen equipment.

Internal return route work schematic diagram

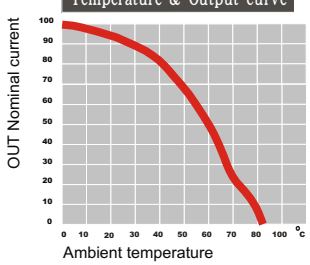


Output hypothesis



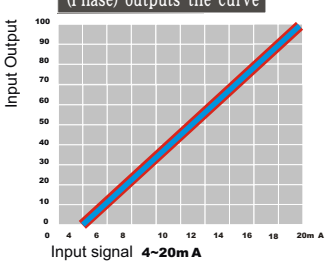
Value of exports limit: The maximum output quantity 0~100%
Change willfully The minimum output 0~30% change willfully

Temperature & Output curve



Between the ambient temperature and
the output current corresponds the change

(Phase) outputs the curve



Output: By input signal %; Corresponding output
The opening control, does not detect the output voltage.

Edited by Foxit PDF Editor
Copyright (c) by Foxit Software Company, 2003 - 2009
For Evaluation Only.

Model recognition

ET6 – 1 – 025

Et6- Type

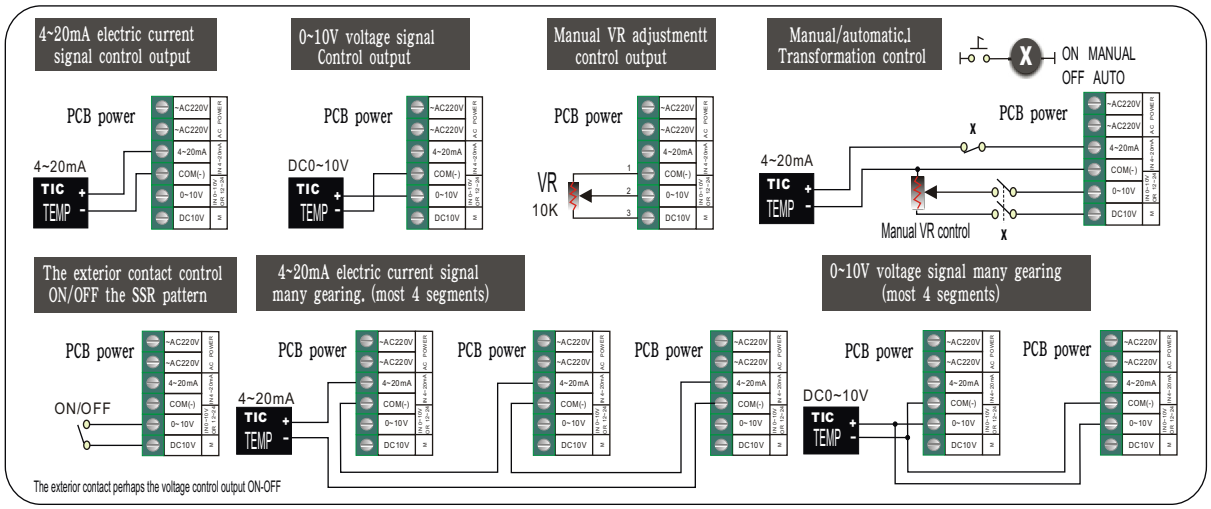
1- single-phase
3- three-phase phases (control three-phase)

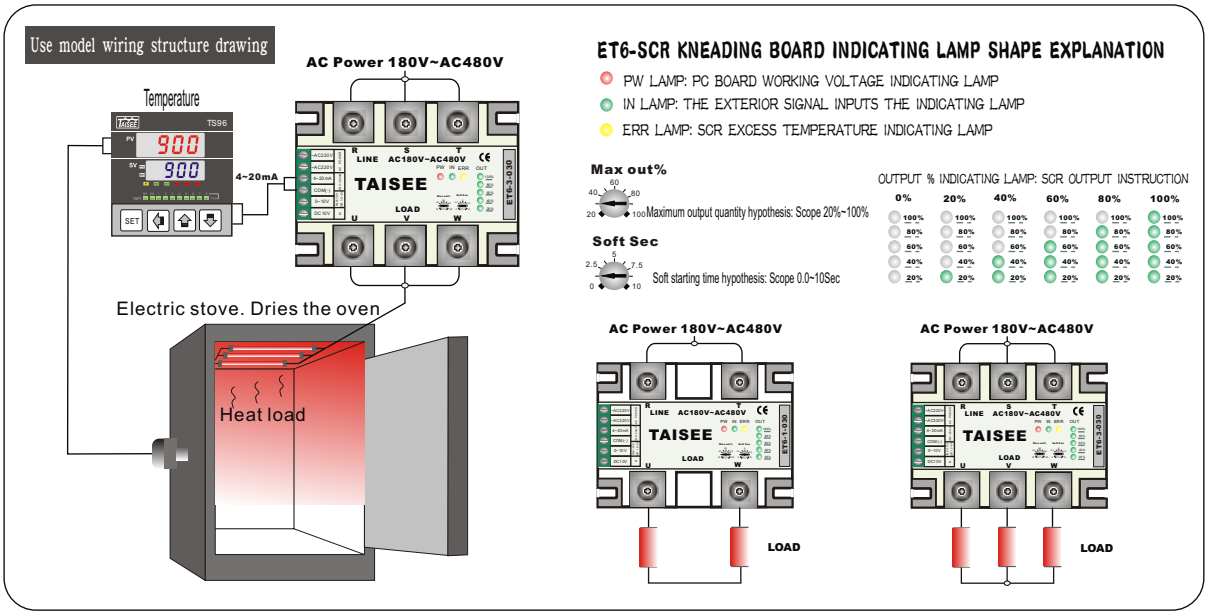
Current 25A~40A
025--25A 030--30A 040--40

E simple type; Product specification size table

Output wave shape

Specification model		Current	Chart	Outward appearance size(mm)			Fixed size (mm)		Kg	Load KW		Locks the Niu strength		Coolant Conditions
				Long	Width	High	Long	Width		220V	380V			
1 ⌀ ET6 Mode	ET6-1-025	25A	F1	82	105	35	66	99	0.5	4	6	M5	40kgfcm	Natural Cooling
	ET6-1-030	30A	F1	82	105	35	66	99	0.5	5	7	M5	50kgfcm	
	ET6-1-040	40A	F1	82	105	35	66	99	0.5	6	9	M5	50kgfcm	
3 ⌀ ET6 Mode	ET6-3-025	25A	F2	82	105	35	66	99	0.5	6	9	M5	40kgfcm	
	ET6-3-030	30A	F2	82	105	35	66	99	0.5	8.5	12	M5	50kgfcm	
	ET6-3-040	40A	F2	82	105	35	66	99	0.5	9	14	M5	50kgfcm	Air coling





Edited by Foxit PDF Editor
Copyright (c) by Foxit Software Company, 2003 - 2009
For Evaluation Only.

Is suitable in: Any heating element load (by type correspondence working load)

Product characteristic:

1: Many kinds of input modes. Changes the hypothesis by the software. Does Does not need to change the type. The use is more convenient
2: May demonstrate the input percentage when output current directly. Monitors easily
3: The unusual condition occurs when. Stops the output immediately. And demonstrates the breakdown reason
4: The origination side operates the type surface lid. The security is good. Provides artistic and the high quality requests
5: High accuracy element control. Input precision 0.1% 0.1. output precision 0.1% 0.3
6: Many kinds of output patterns. Echoes any special load control to request
7: May select and purchase the RS-485 communication function. Supports the RUT pattern Immediate monitoring active status
8: May select and purchase the load (the short circuit. Opening) and load earth (leakage) measuring ability
9: Limits the electric current. Constant current. Constant voltage. Limiting pressure constant flow .....And so on functions

(Assignment type zero position output) only suits the general pure resistance silk load	
30%OUT	
50%OUT	
90%OUT	

Output state Take the full wave as the unit, the non-half-wave ingredient may reach the maximum power factor, saves the electricity Not to have the wave tilt disturbance; When output the ampere meter has the vibration condition;

Load characteristics Decides the resistance wire filament (not to be possible to use in light control, inductive load, changes resistance heating element hurriedly);

Suitable situation The constant temperature air conditioning, the heat-treatment furnace, the hot oven, mortgages machine;

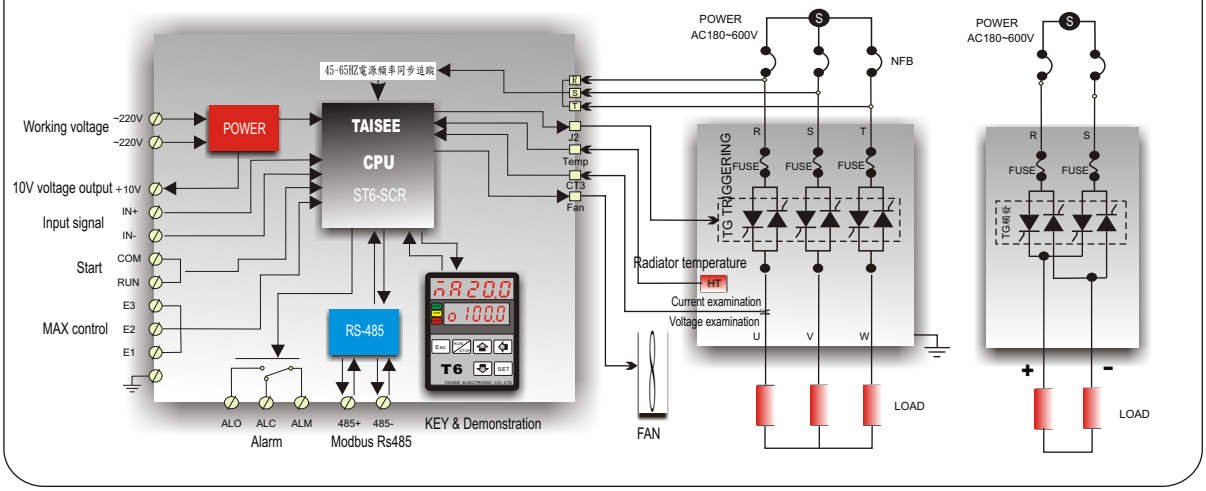
(Proportion type phase control) each kind Of change load, and general load	
30%OUT	
50%OUT	
90%OUT	

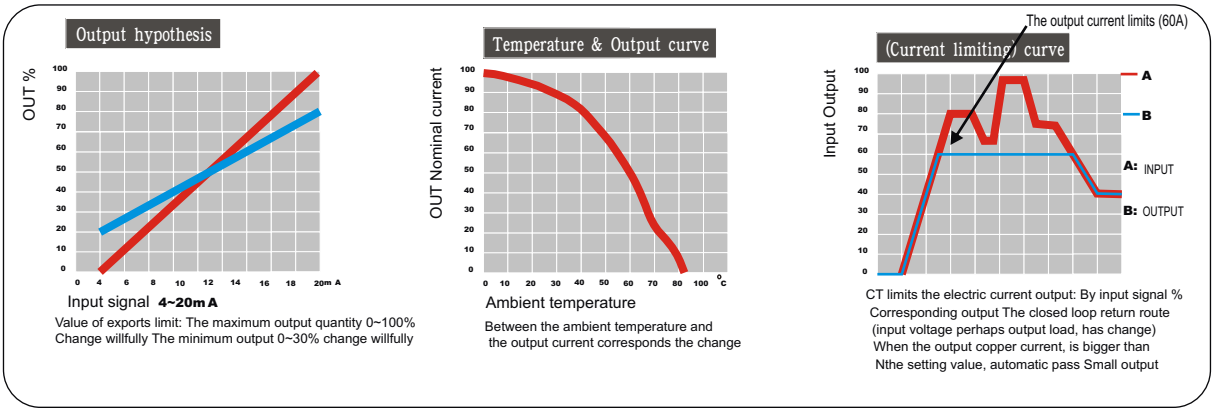
Output state Outputs the stable linearity to be good, the ampere meter does not vibrate, output precision 0.1%, non-wave tilt disturbance phenomenon

Load characteristics Decides the resistance wire filament, the light control, the light control, the inductive load, Changes the Resistance heating element hurriedly, the infrared tube.

Suitable situation Electric stove, infrared oven, temperature Change fast keen equipment.

Internal return route work schematic diagram





Edited by Foxit PDF Editor
Copyright (c) by Foxit Software Company, 2003 - 2009
For Evaluation Only.

Compact ST6-SCR series: Specification catalog

1. assignment type zero position control
2. proportion type phase control
3. limits the current control precisely
4. precise continuous current control
5. precise permanent voltage control 制

Z Zero position control	ST6-2-4-XXX-Z	(Controls two types): Is only suitable for the general resistance type filament
	ST6-3-4-XXX-Z	(Control three-phase type): Zero position. The phase all controls, may establish the change. , the load may meet the zero curve
P Phase control	ST6-1-4-XXX-P	Is suitable in the general resistance type filament, the tube control
	ST6-4-4-XXX-P	Generally perceptual load like transformer load
CT Limits the current	ST6-1-4-XXX-CT	Is suitable in the change load, no matter how the load does change, output voluntary restraint maximum current quantity
	ST6-4-4-XXX-CT	Silicon carbon good load. Graphite load. Silicon molybdenum good load. Glass equipment. And so on
C Constant current	ST6-1-4-XXX-C	Is suitable in the fixed output load, no matter how exterior to change, automatic firm output electric current
	ST6-4-4-XXX-C	Drawing machine. Hardening furnace. Melt. Galvanization. And so on fixed electric current situation
V Constant volatge	ST6-1-4-XXX-V	Is suitable in the stationary load, no matter how the load voltage does change, automatic firm output voltage
	ST6-4-4-XXX-V	The column knocks it off the bottle equipment. And so on must the automatic constant pressure situation

Noten

Before the shaping, please first determine:
Load whether in SCR capacity scope

Computing mode:

(Single-phase): Load (KW)/voltage (V)= ampere (A)*(1.15)= uses SCR ampere (A) elected

(Three-phase): [load (KW)/voltage (V)]/ $\sqrt{3}$ = ampere (A)*(1.15)= uses SCR ampere (A) elected

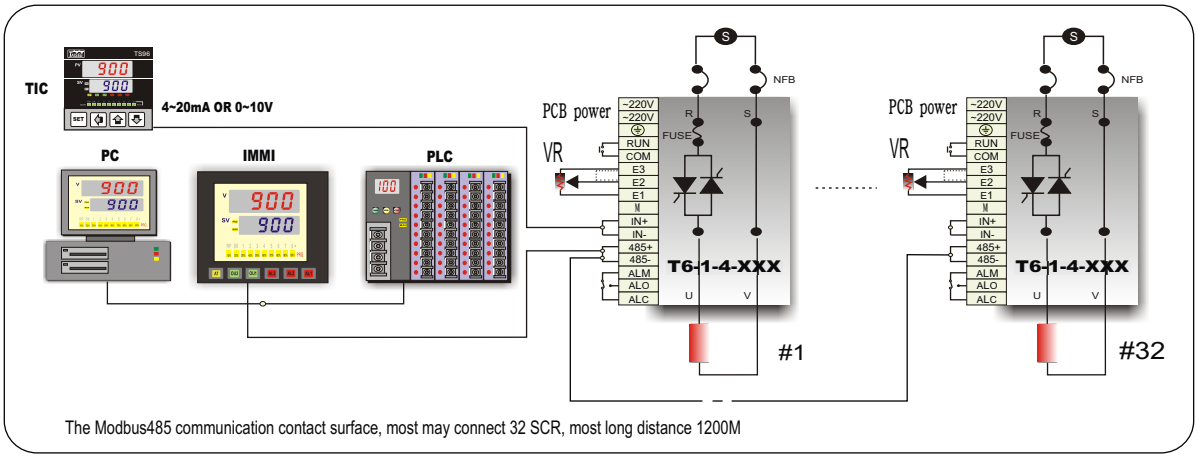
ST6 – □ – □ – □□□ – □ – □

- Mode: ST6 - ST6
- Type: 1 - Single-phase phase; 4 - The three-phase phase (Three-phase partly controls)
- Main power: 4--180V~480V
- Current: 028 - 28A; 030 - 30A; 040 - 40A; 050 - 50A; 060 - 60A
- Output mode: Z - Zero position control; P - Phase control; C - Limits the current; CT - Constant current; V - Constant volatge
- RS485: R - Modebus 485 RTU

Specification model		Current	Chart	Outward appearance size(mm)			Fixed size (mm)		Kg	Load KW		Locks the Niu strength		Coolant Conditions
				Long	Width	High	Long	Width		220V	380V			
1 ⌀ ST6 Mode	ST6-1-4-028	28A	F1	180	110	150	95	105	1.55	4.0	6	M5	40kgfcm	Natural Cooling
	ST6-1-4-030	30A	F1	180	110	150	95	105	1.55	5.0	8	M5	40kgfcm	
	ST6-1-4-040	40A	F1	180	110	150	95	105	1.55	6.0	10	M5	50kgfcm	
	ST6-1-4-050	50A	F1	180	110	150	95	105	1.55	7.0	12	M5	50kgfcm	
	ST6-1-4-060	60A	F1	180	110	150	95	105	1.55	10	15	M5	50kgfcm	
3 ⌀ ST6 Mode	ST6-4-4-028	28A	F1	180	110	150	95	105	1.8	6.0	9	M5	40kgfcm	
	ST6-4-4-030	30A	F1	180	110	150	95	105	1.8	7.0	12	M5	40kgfcm	
	ST6-4-4-040	40A	F2	205	110	150	95	105	2.3	9.0	16	M5	50kgfcm	Air coling
	ST6-4-4-050	50A	F2	205	110	150	95	105	2.3	12	24	M5	50kgfcm	
	ST6-4-4-060	60A	F2	205	110	150	95	105	2.3	15	30	M5	50kgfcm	

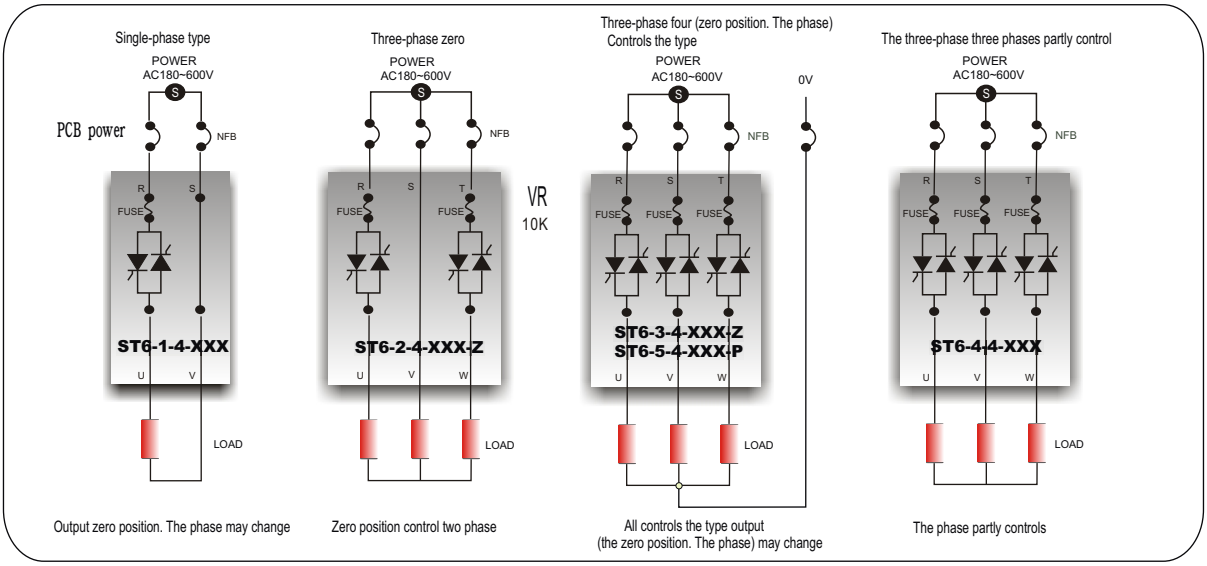
Edited by Foxit PDF Editor
Copyright (c) by Foxit Software Company, 2003 - 2009
For Evaluation Only.

Communication wiring way

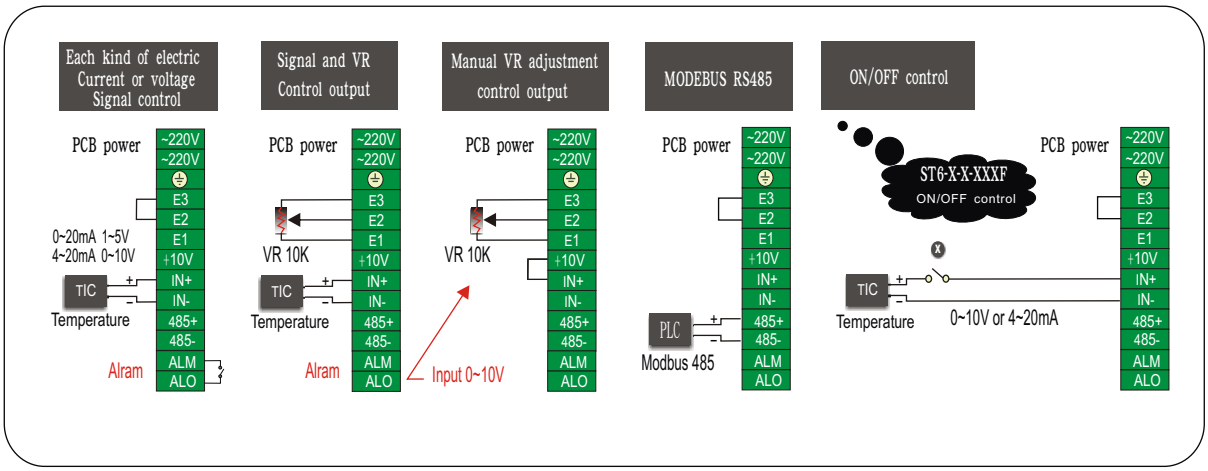


The Modbus485 communication contact surface, most may connect 32 SCR, most long distance 1200M

Main return route wiring way



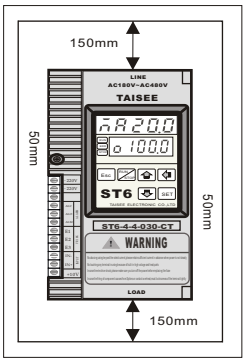
Control return route wiring way

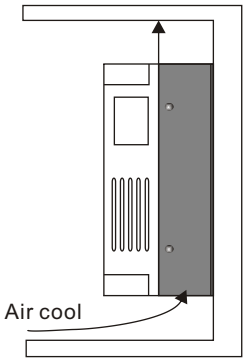


Edited by Foxit PDF Editor
Copyright (c) by Foxit Software Company, 2003 - 2009
For Evaluation Only.

Installs the way and the needing attention

The power regulator to give off heat hight the original part,must the power regulator vertical installment,its hight and low
About with the goods which and the files board is nesr must maintain the foot space raciation The follwing chart shows
If use ambient temperature-10°C~45°C surpasses abover 40°C,please install the heat dissipating arrangement
The improvement temperature





Installs the environment

- Does not have the waterdrop.Vapor.Dust And place of the greasy dust
- Does not have the corrosion.Flammability gas
- Non-Flammability dust and metal particle
- Firm non-vibrates the place
- Place of the non-electromagnetism Miscellaneous news disturbance

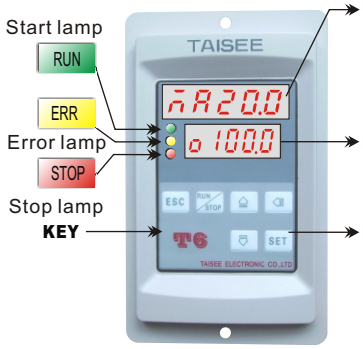
Unusual examintion service way

Unusual Value Demostue ration	Unusual reason	Processing mode,and improvement method
ERROR R-OL	The R load current is unusual The current error supasses ALP setting value	AT electr ic current type — 1.Inspects the R load filament whether to burn down creates the electr ic Current exctric current exceptionally 2.The inspection way will advocate The survey load to be whether normal
ERROR S-OL	The S load current is unusual The current error supasses ALP setting value	AT electr ic current type — 1.Inspects the S load filament whether to burn down creates the electr ic Current exctric current exceptionally 2.The inspection way will advocate The survey load to be whether normal
ERROR T-OL	The T load current is unusual The current error supasses ALP setting value	AT electr ic current type — 1.Inspects the T load filament whether to burn down creates the electr ic Current exctric current exceptionally 2.The inspection way will advocate The survey load to be whether normal
ERROR POWER	No power source or The fuse burns down above 2	1.Inspects the R S T three-phase power source whether normal 2:Inspects the SCR interi or Fuse whether to have overburning the inspection way the main power source closuer uses the Avometer,surveys the SCR interi or fuse the normal fuse is the short
ERROR R-PH	The power source carries R to Lack,perhaps R fuse over	1.Inspects the R phase power source whether normal 2:Inspects the SCR interi or Fuse whether to have overburning the inspection way the main power source closuer uses the Avometer,surveys the SCR interi or fuse the normal fuse is the short
ERROR S-PH	The power source carries S to Lack,perhaps S fuse over	1.Inspects the S phase power source whether normal 2:Inspects the SCR interi or Fuse whether to have overburning the inspection way the main power source closuer uses the Avometer,surveys the SCR interi or fuse the normal fuse is the short
ERROR T-PH	The power source carries T to Lack,perhaps T fuse over	1.Inspects the T phase power source whether normal 2:Inspects the SCR interi or Fuse whether to have overburning the inspection way the main power source closuer uses the Avometer,surveys the SCR interi or fuse the normal fuse is the short
ERROR TEMP	(Radiator overheated) Radiates dab,excess temp Instructi on stops the output	The radiator surpasses when 85°C the SCR stop outpots The environment temperature is too high envirnmental enhancement temperature
ERROR OE	The load earth(leakage) Stops the output	AT electr ic current type — 1:The load has bumps touches the cabinet 2:Wheter the inspection filament Interi or does have the earth phenomenon
ERROR OL	(Is unable closure) The load earth curve,perhaps SCR interi or breakdown	current type — Must all contorl s the type load not to be possible to meet the zero curve to create Out of control 2:Inspects the SCR internal module whether to have the short
ERROR LOAD	(load broken line) has not met The load,perhaps the load is Smaller than 0.6 ampere	current type — The out-port has not met the load,Inspects the SCR out-port load to be Whether normalt
ERROR OC	(Electr ic current) over load Perhaps load short circuit	current type — The load KW number is bigger than SCR ampere, Inspects the Oot-port load whether to have the short pass
ERROR ERROR	(System exceptionally) the SCR interi or breakdown Is unable to revolve	The SCR internal system is unusual,is unable the normal work plase to contact the dealer Or returns to this factory overhaul

Edited by Foxit PDF Editor
Copyright (c) by Foxit Software Company, 2003 - 2009
For Evaluation Only.

SCR

Wisdom:KEY display The operating function contact suface



Display:Input mode(KEY or rs485)display input (I 0.0%~100.0%)
Input mode(0~20mA or 4~20mA)display (mA 0.0mA~20,0mA)
Input mode(0~5V or 0~10V)display (V 0.0V~10,0V)
Output mode(constant current)display (A 0.0A~700A)
Output mode(constant voltage)display (V 0.0V~600V)

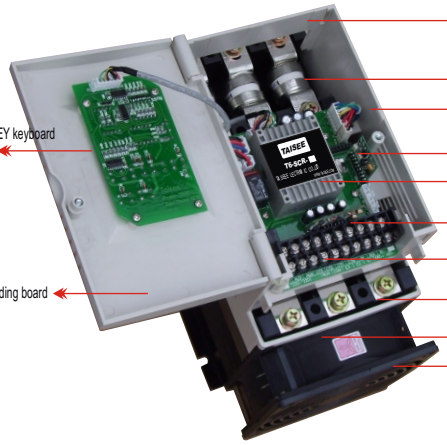
Display:Output mode(zero or phase)display otput (o 0.0%~100.0%)
Output mode(constant current)display (A 0.0A~700A)
Output mode(constant voltage)display (V 0.0V~600V)

Keyboard:Function hypothesis and parameter revision

Esc	RUN/STOP	↑	↓	←	SET
8S reset	Intput=KEY RUN/STOP	Upward	Downward	Change	Intput setting

Interior omni-directional safekeeping of security measure

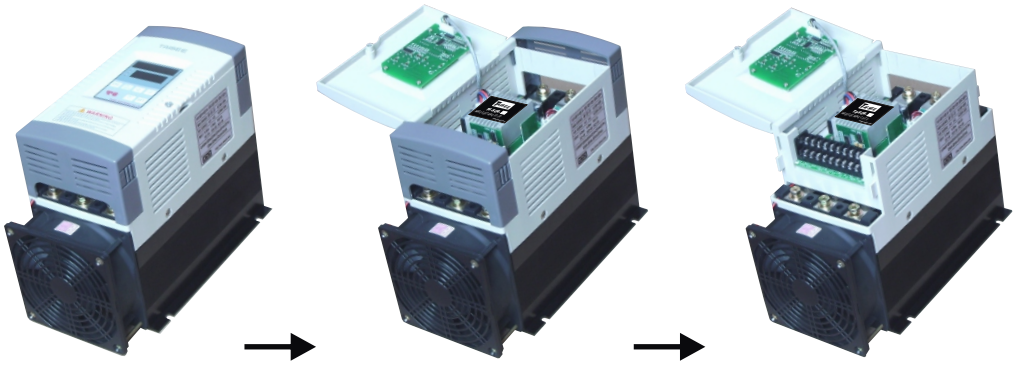
(When main power source perhaps control supply invest, automatic slow starts again, protection device and load)



Postscript source end apron; The use is safer
LINE main power source (single-phase. Three-phase) analog input...Scope AC180V~AC600V
Comes to pay tribute the high speed fuse protection module
When temperature 85℃ degrees (stops output immediately, the ERR lamp is bright, screen demonstration excess temperature exceptionally)
Kneading board demonstration and KEY keyboard
May match the RS485 pattern. The monitoring is more perfect
High accuracy CPU control; Precision 0.1% Error range 0.3%
Multi-mold train choice; (phase. Zero position) (current limiting. Constant flow) (constant pressure) And so on many kinds of matching changes
PC board working voltage AC220V; Control signal input and unusual Warning output contact post
The side operates the type kneading board
LOAD head end (single-phase. Three-phase) output range 30A~800A
Attaches the head end apron; The use is safer
(When wisdom cooling fan PC board working voltage AC220V input, ventilator automatic Performance 10 seconds later stop)
((When radiator temperature > When 45℃ the ventilator starts the revolution, is lower than 40℃ stop revolution)

The side opens the type design; Use service more convenient security

(Simple replacement fuse, The wiring renews easily)



Outstanding function, Unequalled

Edited by Foxit PDF Editor
Copyright (c) by Foxit Software Company, 2003 - 2009
For Evaluation Only.

Many kinds of function T6-SCR series: Specification catalog (30A~800A)

1. Zero control	2.Phase control	3. Limits current	4.Fixed current	5.Fixed voltage
6. full-wave control	7. Examination	8.DC contrlo	9.Fixed (current/voltage) control	

Z (general zero position output) random distribution type cycle control

Three-phase controls two 0.1 go nonstop to [is only suitable general pure resistance] silk load, when output voltage and electric current has vibration phenomenon]

P (common phase output) stochastic proportion type phase shifting control

The open style phase angle control only changes the output terminal voltage, the non-back coupling signal examination, the output is stable, the linearity is good

[Is suitable for: Generally resistance wire, tube, loads and so on transformer]

CT (limits current control output precisely) the stochastic detection limit power control

The out-port electric current feedback signal examination, may limit the maximum output electric current, causes the SCR output current not to surpass the user hypothesis The safe current movement principle, achieves protects SCR and the load function:

C (precise continuous current control output) stochastic detection constant power control

The out-port electric current feedback signal examination, may establish the output Current, causes the SCR output current to be constant, no matter the voltage or the SCR outpthe load have Any change, the SCR automatic control output, establishes the magnitude of current to the user

[Is suitable for: Generally resistance wire, tube, transformer graphite, silicon carbon stick. And so on and each kind of change load]

[Applicable scope: Fixed output situation for example: The drawing machine, dissolves the stove, the annealing equipment. And so on each kind of load]

V (precise permanent voltage control output) stochastic detection constant voltage control

The output terminal voltage feedback signal examination, may establish the output voltage, causes the SCR output voltage to be constant, no matter the voltage or the load have

Any change, the SCR automatic control output, establishes the voltage value to the user [Applicable scope: Fixed output voltage situation for example: The tube control, helps knocks it off the bottle machine. And so on each kind of load]

ZP (all controls output) the zero position/phase to be possible to change, three-phase may meet the zero curve

The output pattern uses the full-wave control, may change the output pattern, the zero position/phase/phase start zero position revolution/zero position starts

Phase revolution. And so on many kinds of output pattern cut, the load Y wiring center may meet the zero curve

[Is suitable for: Generally resistance wire, tube control, loads and so on transformer]

Edited by Foxit PDF Editor
Copyright (c) by Foxit Software Company, 2003 - 2009
For Evaluation Only.

AT (entire detection) current limiting, constant flow, load leakage broken Line measuring ability

May establish the three-phase output current magnitude of error, if the error is bigger than the setting value, unusual warning output

1.The out-port electric current feedback signal examination, may limit the maximum output electric current, causes the SCR output current not to surpass the user hypothesis safe current movement principle, achieves protects SCR and the load function

The out-port electric current feedback signal examination, may limit the maximum output electric current, causes the SCR output current not to surpass the user hypothesis safe current movement principle, achieves protects SCR and the load function:

2. use scope and product characteristic: Limits the electric current is may limit t the maximum output electric current, for example: SCR limits 100A., when the SCR electric current is bigger than 100A to output fixed 100A, if the electric current reducest to 100A below, SCR normal proportion output

[Is suitable for: Generally resistance wire, tube, transformer, graphite, silicon carbon stick. . And so on and each kind of change load]

3. the out-port electric current feedback signal examination, may establish the output current, causes the SCR output current to be constant, if the voltage or the load have any change, the SCR automatic control output, establishes the magnitude of current to the user

[Is suitable for: Generally resistance wire, tube, transformer graphite, silicon carbon stick. And so on and each kind of change load]

[Applicable scope: Fixed output situation for example: The drawing machine, dissolves the stove, the annealing equipment. And so on each kind of load]

CV (limits voltage to limit current control output precisely) the stochastic detection constant power constant voltage

The output voltage and the electric current may also control: Covers (CT.C.V) including The letter the type function union

May change the output pattern: Limits the voltage constant current/to limit the electric current constant voltage/to limit the voltage to limit the electric current/many kinds of kinds of pattern hypotheses

1.The out-port electric current feedback signal examination, may establish the output Current, causes the SCR output current to be constant, no matter the voltage or the SCR outpthe load have Any change, the SCR automatic control output, establishes the magnitude of current to the user

[Is suitable for: Generally resistance wire, tube, transformer graphite, silicon carbon stick. And so on and each kind of change load]

[Applicable scope: Fixed output situation for example: The drawing machine, dissolves the stove, the annealing equipment. And so on each kind of load]

2.The output terminal voltage feedback signal examination, may establish the output voltage, causes the SCR output voltage to be constant, no matter the voltage or the load have

Any change, the SCR automatic control output, establishes the voltage value to the user

[Applicable scope: Fixed output voltage situation for example: The tube control, helps knocks it off the bottle machine. And so on each kind of load]

CD (direct-current output) single-phase/three-phase AC input, direct-current uniphase output

The output pattern uses the full-wave control, may select and purchase, constant flow. Constant pressure, current limiting, limiting pressure. And so on special function

[Is suitable for: Each kind of DC DC load]

Edited by Foxit PDF Editor
Copyright (c) by Foxit Software Company, 2003 - 2009
For Evaluation Only.

Zero (Controls two types): Is only suitable for the general resistance type filament

Product characteristic:

1: Many kinds of input modes. Changes the hypothesis by the software. Does Does not need to change the type. The use is more convenient
2: May demonstrate the input percentage when output current directly. Monitors easily
3: The unusual condition occurs when. Stops the output immediately. And demonstrates the breakdown reason
4: The origination side operates the type surface lid. The security is good. Provides artistic and the high quality requests
5: High accuracy element control. Input precision 0.1% 0.1. output precision 0.1% 0.3
6: Many kinds of output patterns. Echoes any special load control to request

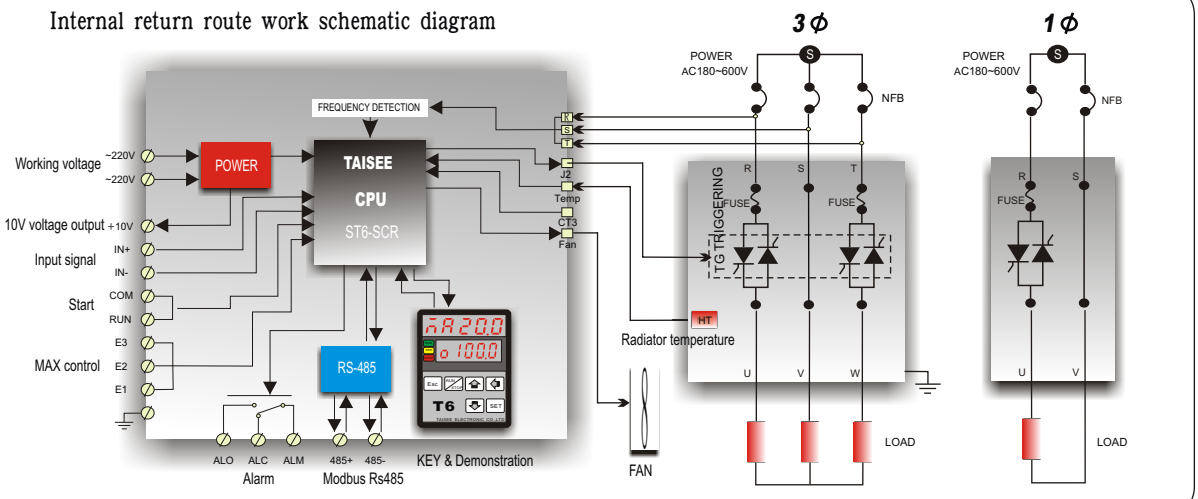
(Assignment type zero position output) only suits the general pure resistance silk load	
30%OUT	
50%OUT	
90%OUT	

Output state Take the full wave as the unit, the non-half-wave ingredient may reach the maximum power factor, saves the electricity
Not to have the wave tilt disturbance;
When output the ampere meter has the vibration condition;

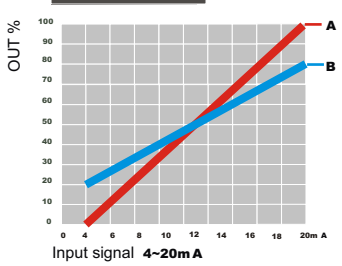
Load characteristics Decides the resistance wire filament (not to be possible to use in light control, inductive load, changes resistance heating element hurriedly);

Suitable situation The constant temperature air conditioning, the heat-treatment furnace, the hot oven, mortgages machine;

Internal return route work schematic diagram

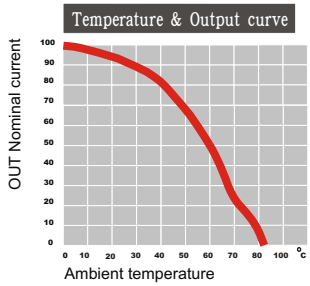


Output hypothesis



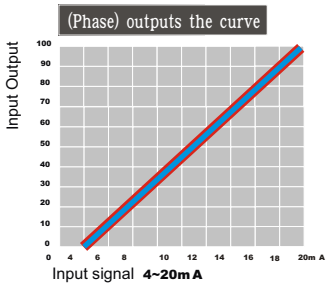
Value of exports limit: The maximum output quantity 0~100%
Change willfully The minimum output 0~30% change willfully

Temperature & Output curve



Between the ambient temperature and the output current corresponds the change

(Phase) outputs the curve



Output: By input signal %; Corresponding output
The opening control, does not detect the output voltage.

Edited by Foxit PDF Editor
Copyright (c) by Foxit Software Company, 2003 - 2009
For Evaluation Only.

Noten

Before the shaping, please first determine:
Load whether in SCR capacity scope

Computing mode:

(Single-phase): Load (KW)/voltage (V)= ampere (A)*(1.15)= uses SCR ampere (A) elected

(Three-phase): [load (KW)/voltage (V)]/ $\sqrt{3}$ = ampere (A)*(1.15)= uses SCR ampere (A) elected

Model recognition

T6 — 1 — 4 — 100 — Z — R → R-modebs RTU Rs485

- T6- Type
- 1- single-phase
  4- three-phase phases
- 4 - AC180~600V
- Current 30A~800A
  030--30A 040--40A 050--50A
  060--60A 075--75A 080--80A
  100--100A 125--125A 150--150A
  175--175A 200--200A 225--225A
  300--300A 400--400A 500--500A
- Z-zero output

Z zero type; Product specification size table

Output wave shape

Specification model		Current	Chart	Outward appearance size(mm)			Fixed size (mm)		Kg	Load KW		Locks the Niu strength		Coolant
				Long	Width	High	Long	Width		220V	380V			
1 ⌀ ET6 Mode	T6-1-4-030Z	30A	F1	210	110	183	170	105	1.8	5.5	9	M6	40kgfcm	Natural Cooling
	T6-1-4-050Z	50A	F1	210	110	183	170	105	1.8	8.5	12	M6	50kgfcm	
	T6-1-4-060Z	60A	F1	210	110	183	170	105	1.8	10	18	M6	50kgfcm	
	T6-1-4-075Z	75A	F1	210	110	183	170	105	1.8	14	24	M6	70kgfcm	
	T6-1-4-080Z	80A	F1	210	110	183	170	105	1.8	15	25	M6	75kgfcm	
	T6-1-4-100Z	100A	F2	235	110	183	170	105	2.5	18	33	M6	85kgfcm	Air coling
	T6-1-4-125Z	125A	F2	235	110	183	170	105	2.5	22	40	M6	95kgfcm	
	T6-1-4-150Z	150A	F2	235	110	183	170	105	2.8	26	45	M8	170kgfcm	
	T6-1-4-175Z	175A	F2	235	110	183	170	105	2.8	30	50	M8	200kgfcm	
	T6-1-4-200Z	200A	F2	250	140	205	170	135	3.8	35	62	M8	220kgfcm	
	T6-1-4-225Z	225A	F2	250	140	205	170	135	3.8	39	66	M8	250kgfcm	
	T6-1-4-300Z	300A	F2	250	140	205	170	135	4.5	52	90	M10	250kgfcm	
	T6-1-4-400Z	400A	F2	250	140	205	170	135	5.5	70	120	M12	250kgfcm	
	T6-1-4-500Z	500A	F2	250	140	205	170	135	5.5	90	150	M12	250kgfcm	
3 ⌀ ET6 Mode	T6-2-4-030Z	30A	F1	210	140	205	170	135	2.8	8.5	16	M6	40kgfcm	Natural
	T6-2-4-050Z	50A	F3	250	140	205	170	135	3.5	14	26	M6	50kgfcm	Air coling
	T6-2-4-060Z	60A	F3	250	140	205	170	135	3.9	16	32	M6	50kgfcm	
	T6-2-4-075Z	75A	F3	250	140	205	170	135	3.9	22	40	M6	70kgfcm	
	T6-2-4-080Z	80A	F3	250	140	205	170	135	3.9	25	42	M6	75kgfcm	
	T6-2-4-100Z	100A	F3	250	140	205	170	135	3.9	32	56	M6	85kgfcm	
	T6-2-4-125Z	125A	F3	300	140	205	170	135	5.1	38	67	M6	95kgfcm	
	T6-2-4-150Z	150A	F3	300	140	205	170	135	5.7	45	80	M8	170kgfcm	
	T6-2-4-175Z	175A	F3	300	140	205	170	135	5.7	50	90	M8	200kgfcm	
	T6-2-4-200Z	200A	F4	335	265	235	225	255	13	55	100	M8	220kgfcm	
	T6-2-4-225Z	225A	F4	335	265	235	225	255	13	68	120	M8	250kgfcm	
	T6-2-4-300Z	300A	F4	335	265	235	225	255	18	89	160	M10	250kgfcm	
	T6-2-4-400Z	400A	F4	450	265	235	235	255	22	120	220	M12	250kgfcm	
	T6-2-4-500Z	500A	F4	450	265	235	225	255	26	150	270	M14	250kgfcm	
	T6-2-4-800Z	800A	F4	600	265	235	300	255	30	260	450	M16	250kgfcm	

T6 (several demonstrate P phase output)

T6 (phase control) is suitable for: Generally load. Infrared IR tube. Transformer load

Product characteristic:

1: Many kinds of input modes. Changes the hypothesis by the software. Does Does not need to change the type. The use is more convenient
2: May demonstrate the input percentage when output current directly. Monitors easily
3: The unusual condition occurs when. Stops the output immediately. And demonstrates the breakdown reason
4: The origination side operates the type surface lid. The security is good. Provides artistic and the high quality requests
5: High accuracy element control. Input precision 0.1% 0.1. output precision 0.1% 0.3
6: Many kinds of output patterns. Echoes any special load control to request

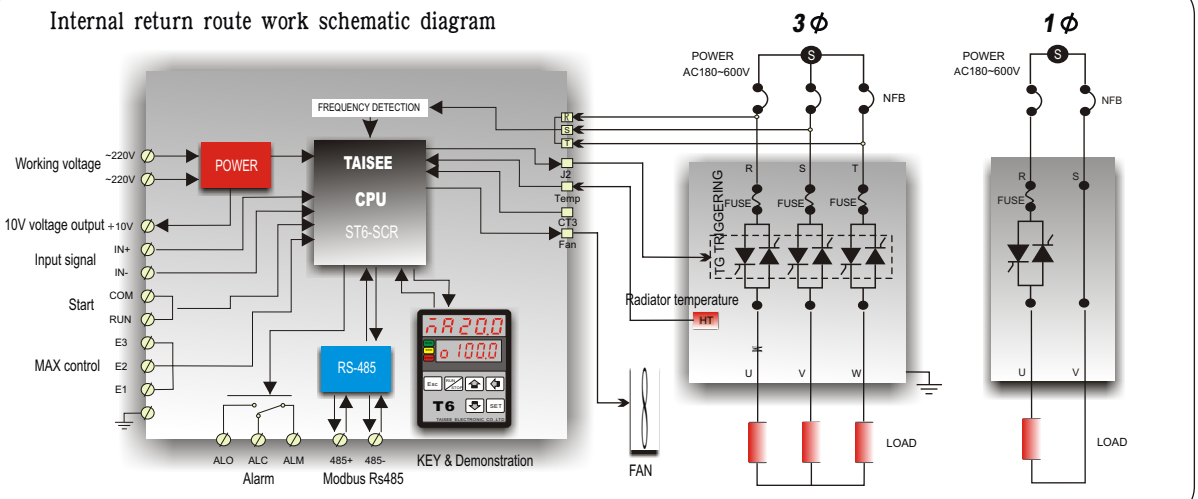
P (proportion type phase control): Is suitable The common resistance wire ,IR tube. Induction reactance load	
30%OUT	
50%OUT	
90%OUT	

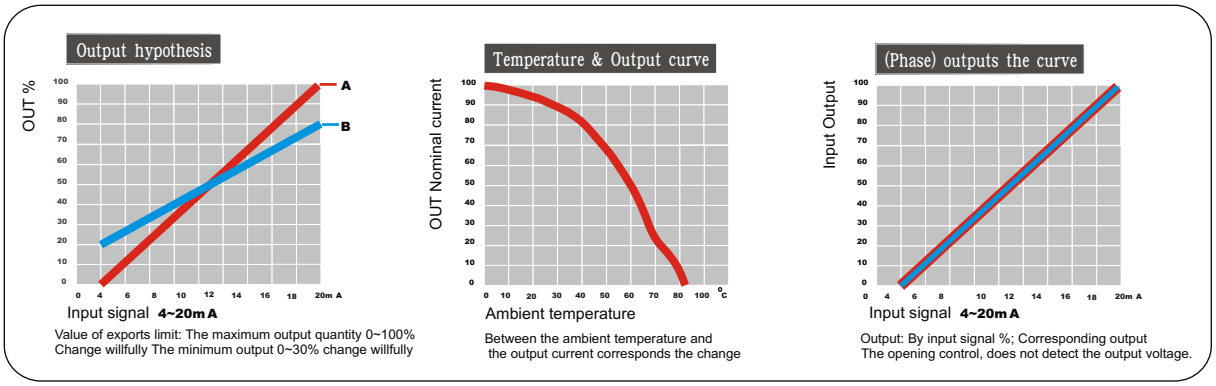
Output state Outputs the stable linearity to be good, the ampere meter does not vibrate, output precision 0.1%, non-wave tilt disturbance phenomenon

Load characteristics Decides the resistance wire filament, the light control, the inductive load, changes the resistance heating element hurriedly, the infrared tube.

Suitable situation Electric stove, infrared oven, temperature change fast keen equipment.

Internal return route work schematic diagram





T6 (several demonstrate P phase output)

Noten

Before the shaping, please first determine:
Load whether in SCR capacity scope

Computing mode:

(Single-phase): Load (KW)/voltage (V)= ampere (A)*(1.15)= uses SCR ampere (A) elected

(Three-phase): [load (KW)/voltage (V)]/ $\sqrt{3}$ = ampere (A)*(1.15)= uses SCR ampere (A) elected

Model recognition

T6 — 1 — 4 — 100 — p — R → R-modebs RTU Rs485

- T6- Type
- 1- single-phase
  4- three-phase phases
- 4 - AC180~600V
- Current 30A~800A
  030--30A 040--40A 050--50A
  060--60A 075--75A 080--80A
  100--100A 125--125A 150--150A
  175--175A 200--200A 225--225A
  300--300A 400--400A 500--500A
- P-phase output

P phase type; Product specification size table

Output wave shape

Specification model		Current	Chart	Outward appearance size(mm)			Fixed size (mm)		Kg	Load KW		Locks the Niu strength		Coolant
				Long	Width	High	Long	Width		220V	380V			
1 ø ET6 Mode	T6-1-4-030P	30A	F1	210	110	183	170	105	1.8	5.5	9	M6	40kgfcm	Natural Cooling
	T6-1-4-050P	50A	F1	210	110	183	170	105	1.8	8.5	12	M6	50kgfcm	
	T6-1-4-060P	60A	F1	210	110	183	170	105	1.8	10	18	M6	50kgfcm	
	T6-1-4-075P	75A	F1	210	110	183	170	105	1.8	14	24	M6	70kgfcm	
	T6-1-4-080P	80A	F1	210	110	183	170	105	1.8	15	25	M6	75kgfcm	
	T6-1-4-100P	100A	F2	235	110	183	170	105	2.5	18	33	M6	85kgfcm	Air coling
	T6-1-4-125P	125A	F2	235	110	183	170	105	2.5	22	40	M6	95kgfcm	
	T6-1-4-150P	150A	F2	235	110	183	170	105	2.8	26	45	M8	170kgfcm	
	T6-1-4-175P	175A	F2	235	110	183	170	105	2.8	30	50	M8	200kgfcm	
	T6-1-4-200P	200A	F2	250	140	205	170	135	3.8	35	62	M8	220kgfcm	
	T6-1-4-225P	225A	F2	250	140	205	170	135	3.8	39	66	M8	250kgfcm	
	T6-1-4-300P	300A	F2	250	140	205	170	135	4.5	52	90	M10	250kgfcm	
	T6-1-4-400P	400A	F2	250	140	205	170	135	5.5	70	120	M12	250kgfcm	
	T6-1-4-500P	500A	F2	250	140	205	170	135	5.5	90	150	M12	250kgfcm	
3 ø ET6 Mode	T6-4-4-030P	30A	F1	210	140	205	170	135	2.8	8.5	16	M6	40kgfcm	Natural
	T6-4-4-050P	50A	F3	250	140	205	170	135	3.5	14	26	M6	50kgfcm	Air coling
	T6-4-4-060P	60A	F3	250	140	205	170	135	3.9	16	32	M6	50kgfcm	
	T6-4-4-075P	75A	F3	250	140	205	170	135	3.9	22	40	M6	70kgfcm	
	T6-4-4-080P	80A	F3	250	140	205	170	135	3.9	25	42	M6	75kgfcm	
	T6-4-4-100P	100A	F3	250	140	205	170	135	3.9	32	56	M6	85kgfcm	
	T6-4-4-125P	125A	F3	300	140	205	170	135	5.1	38	67	M6	95kgfcm	
	T6-4-4-150P	150A	F3	300	140	205	170	135	5.7	45	80	M8	170kgfcm	
	T6-4-4-175P	175A	F3	300	140	205	170	135	5.7	50	90	M8	200kgfcm	
	T6-4-4-200P	200A	F4	335	265	235	225	255	13	55	100	M8	220kgfcm	
	T6-4-4-225P	225A	F4	335	265	235	225	255	13	68	120	M8	250kgfcm	
	T6-4-4-300P	300A	F4	335	265	235	225	255	18	89	160	M10	250kgfcm	
	T6-4-4-400P	400A	F4	390	265	235	235	255	22	120	220	M12	250kgfcm	
	T6-4-4-500P	500A	F4	390	265	235	225	255	26	150	270	M14	250kgfcm	
	T6-4-4-800P	800A	F4	390	440	235	300	430	30	260	450	M16	250kgfcm	

T6 (several demonstrated CT limitscurrent)

CT (limits electric current to return is detected control).
Is suitable in: Load like; Graphite. Silicon carbon stick change

Product characteristic:

1: Many kinds of input modes. Changes the hypothesis by the software. Does Does not need to change the type. The use is more convenient
2: May demonstrate the input percentage when output current directly. Monitors easily
3: The unusual condition occurs when. Stops the output immediately. And demonstrates the breakdown reason
4: The origination side operates the type surface lid. The security is good. Provides artistic and the high quality requests
5: High accuracy element control. Input precision 0.1% 0.1. output precision 0.1% 0.3
6: Many kinds of output patterns. Echoes any special load control to request
7: Limits the electric current..

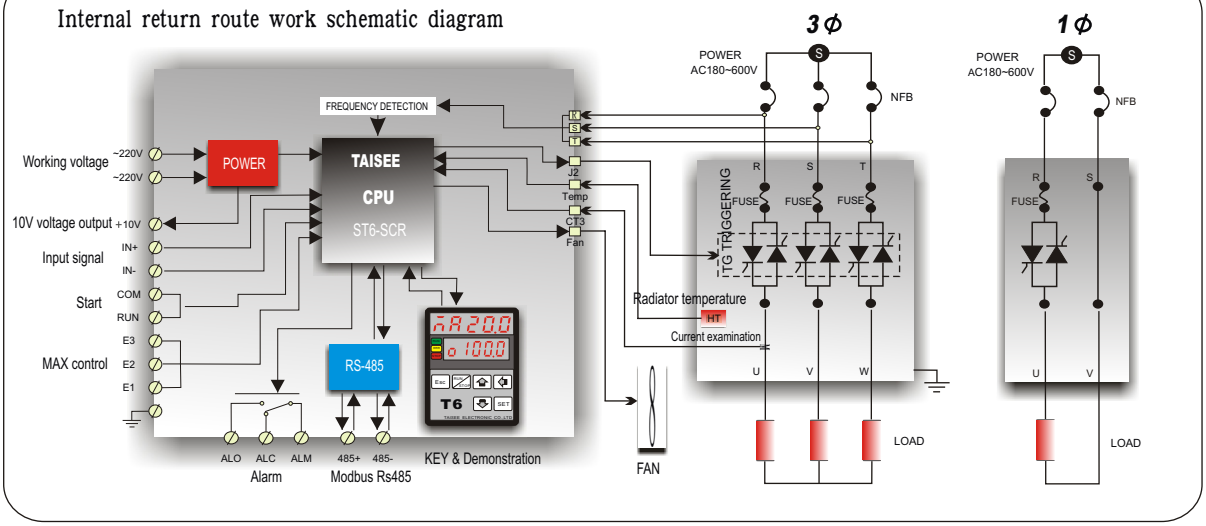
(Proportion type phase control) each kind Of change load, and general load	
30%OUT	
50%OUT	
90%OUT	

Output state Outputs the stable linearity to be good, the ampere meter does not vibrate, output precision 0.1%, non-wave tilt disturbance phenomenon

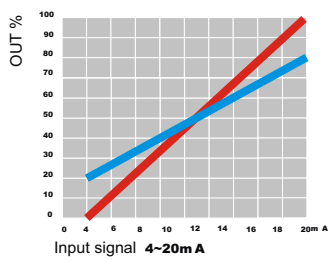
Load characteristics Decides the resistance wire filament, the light control, the light control, the inductive load, Changes the Resistance heating element hurriedly, the infrared tube.

Suitable situation Electric stove, infrared oven, temperature Change fast keen equipment.

Internal return route work schematic diagram

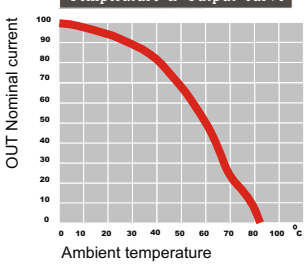


Output hypothesis



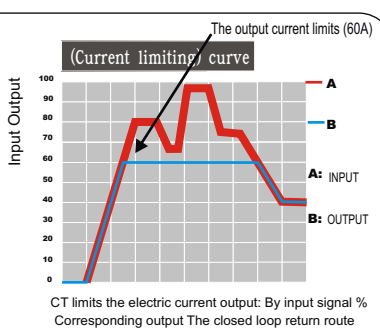
Value of exports limit: The maximum output quantity 0~100% Change willfully The minimum output 0~30% change willfully

Temperature & Output curve



Between the ambient temperature and the output current corresponds the change

(Current limiting) curve



CT limits the electric current output: By input signal % Corresponding output The closed loop return route (input voltage perhaps output load, has change) When the output copper current, is bigger than Nthe setting value, automatic pass Small output

T6 (several demonstrated CT limits current)

Noten

Before the shaping, please first determine:
Load whether in SCR capacity scope

Computing mode:

(Single-phase): Load (KW)/voltage (V)= ampere (A)*(1.15)= uses SCR ampere (A) elected

(Three-phase): [load (KW)/voltage (V)]/ $\sqrt{3}$ = ampere (A)*(1.15)= uses SCR ampere (A) elected

Model recognition

T6 — 1 — 4 — 100 — CT — R → R-modebs RTU Rs485

- T6- Type
- 1- single-phase
  4- three-phase phases
- 4 - AC180~600V
- Current 30A~800A
  030--30A 040--40A 050--50A
  060--60A 075--75A 080--80A
  100--100A 125--125A 150--150A
  175--175A 200--200A 225--225A
  300--300A 400--400A 500--500A
- CT-相位限電流輸出

CT limits current type; Product specification size table

Output wave shape

Specification model		Current	Chart	Outward appearance size(mm)			Fixed size (mm)		Kg	Load KW		Locks the Niu strength		Coolant
				Long	Width	High	Long	Width		220V	380V			
1Φ ET6 Mode	T6-1-4-030CT	30A	F1	210	110	183	170	105	1.8	5.5	9	M6	40kgfcm	Natural Cooling
	T6-1-4-050CT	50A	F1	210	110	183	170	105	1.8	8.5	12	M6	50kgfcm	
	T6-1-4-060CT	60A	F1	210	110	183	170	105	1.8	10	18	M6	50kgfcm	
	T6-1-4-075CT	75A	F1	210	110	183	170	105	1.8	14	24	M6	70kgfcm	
	T6-1-4-080CT	80A	F1	210	110	183	170	105	1.8	15	25	M6	75kgfcm	
	T6-1-4-100CT	100A	F2	235	110	183	170	105	2.5	18	33	M6	85kgfcm	Air coling
	T6-1-4-125CT	125A	F2	235	110	183	170	105	2.5	22	40	M6	95kgfcm	
	T6-1-4-150CT	150A	F2	235	110	183	170	105	2.8	26	45	M8	170kgfcm	
	T6-1-4-175CT	175A	F2	235	110	183	170	105	2.8	30	50	M8	200kgfcm	
	T6-1-4-200CT	200A	F2	250	140	205	170	135	3.8	35	62	M8	220kgfcm	
	T6-1-4-225CT	225A	F2	250	140	205	170	135	3.8	39	66	M8	250kgfcm	
	T6-1-4-300CT	300A	F2	250	140	205	170	135	4.5	52	90	M10	250kgfcm	
	T6-1-4-400CT	400A	F2	250	140	205	170	135	5.5	70	120	M12	250kgfcm	
	T6-1-4-500CT	500A	F2	250	140	205	170	135	5.5	90	150	M12	250kgfcm	
3Φ ET6 Mode	T6-4-4-030CT	30A	F1	210	140	205	170	135	2.8	8.5	16	M6	40kgfcm	Natural
	T6-4-4-050CT	50A	F3	250	140	205	170	135	3.5	14	26	M6	50kgfcm	Air coling
	T6-4-4-060CT	60A	F3	250	140	205	170	135	3.9	16	32	M6	50kgfcm	
	T6-4-4-075CT	75A	F3	250	140	205	170	135	3.9	22	40	M6	70kgfcm	
	T6-4-4-080CT	80A	F3	250	140	205	170	135	3.9	25	42	M6	75kgfcm	
	T6-4-4-100CT	100A	F3	250	140	205	170	135	3.9	32	56	M6	85kgfcm	
	T6-4-4-125CT	125A	F3	300	140	205	170	135	5.1	38	67	M6	95kgfcm	
	T6-4-4-150CT	150A	F3	300	140	205	170	135	5.7	45	80	M8	170kgfcm	
	T6-4-4-175CT	175A	F3	300	140	205	170	135	5.7	50	90	M8	200kgfcm	
	T6-4-4-200CT	200A	F4	335	265	235	225	255	13	55	100	M8	220kgfcm	
	T6-4-4-225CT	225A	F4	335	265	235	225	255	13	68	120	M8	250kgfcm	
	T6-4-4-300CT	300A	F4	335	265	235	225	255	18	89	160	M10	250kgfcm	
	T6-4-4-400CT	400A	F4	390	265	235	235	255	22	120	220	M12	250kgfcm	
	T6-4-4-500CT	500A	F4	390	265	235	225	255	26	150	270	M14	250kgfcm	
	T6-4-4-800CT	800A	F4	390	440	235	300	430	30	260	450	M16	250kgfcm	

T6 (several demonstrate the C fixed current)

C (fixed electric current returns is detected control). Is suitable in: Automatic firm output amperage

Product characteristic:

1: Many kinds of input modes, Changes the hypothesis by the software, Does Does not need to change the type, The use is more convenient
2: May demonstrate the input percentage when output current directly, Monitors easily
3: The unusual condition occurs when, Stops the output immediately, And demonstrates the breakdown reason
4: The origination side operates the type surface lid, The security is good, Provides artistic and the high quality requests
5: High accuracy element control, Input precision 0.1% 0.1, output precision 0.1% 0.3
6: Many kinds of output patterns, Echoes any special load control to request
7: Fixed electric current function, Echoes each kind of special load request

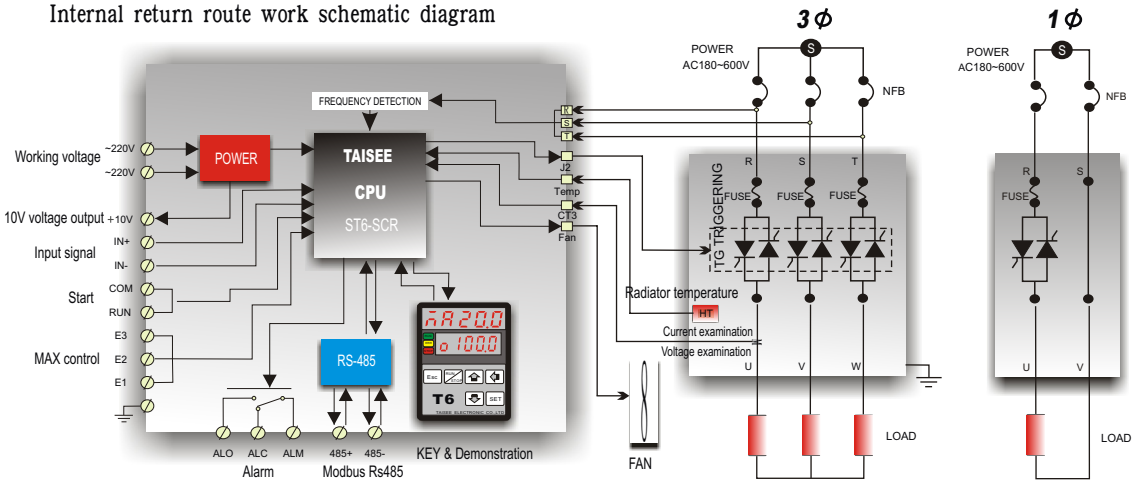
(Proportion type phase control) each kind Of change load, and general load	
30%OUT	
50%OUT	
90%OUT	

Output state Outputs the stable linearity to be good, the ampere meter does not vibrate, output precision 0.1%, non-wave tilt disturbance phenomenon

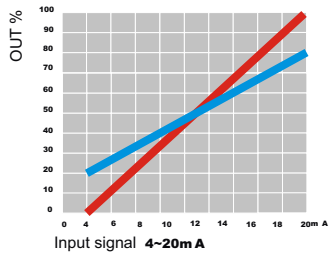
Load characteristics Decides the resistance wire filament, the light control, the light control, the inductive load, Changes the Resistance heating element hurriedly, the infrared tube.

Suitable situation May establish the output current, when the voltage or the variation of load electric current enlarges reduces,

Internal return route work schematic diagram

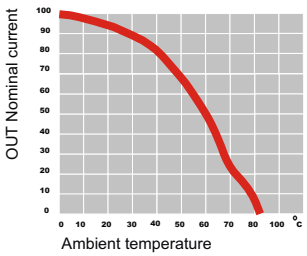


Output hypothesis



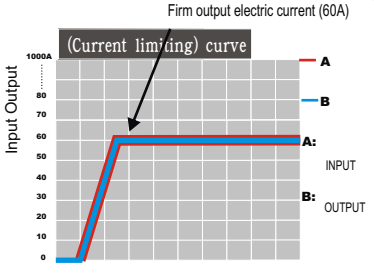
Value of exports limit: The maximum output quantity 0~100% Change willfully The minimum output 0~30% change willfully

Temperature & Output curve



Between the ambient temperature and the output current corresponds the change

(Current limiting) curve



C decides the electric current output: By input signal % Corresponding output The closed loop return route control, detects the output current promptly

T6 (several demonstrate the C fixed current)

Noten

Before the shaping, please first determine:
Load whether in SCR capacity scope

Computing mode:

(Single-phase): Load (KW)/voltage (V)= ampere (A)*(1.15)= uses SCR ampere (A) elected

(Three-phase): [load (KW)/voltage (V)]/ $\sqrt{3}$ = ampere (A)*(1.15)= uses SCR ampere (A) elected

Model recognition

T6 — 1 — 4 — 100 — C — R → R-modebs RTU Rs485

- T6- Type
- 1- single-phase
  4- three-phase phases
- 4 - AC180~600V
- Current 30A~800A
  030--30A 040--40A 050--50A
  060--60A 075--75A 080--80A
  100--100A 125--125A 150--150A
  175--175A 200--200A 225--225A
  300--300A 400--400A 500--500A
- C-Fixed current output

C fixed electric current type; Product specification size table

Output wave shape

Specification model		Current	Chart	Outward appearance size(mm)			Fixed size (mm)		Kg	Load KW		Locks the Niu strength		Coolant
				Long	Width	High	Long	Width		220V	380V			
1 ⌀ ET6 Mode	T6-1-4-030C	30A	F1	210	110	183	170	105	1.8	5.5	9	M6	40kgfcm	Natural Cooling
	T6-1-4-050C	50A	F1	210	110	183	170	105	1.8	8.5	12	M6	50kgfcm	
	T6-1-4-060C	60A	F1	210	110	183	170	105	1.8	10	18	M6	50kgfcm	
	T6-1-4-075C	75A	F1	210	110	183	170	105	1.8	14	24	M6	70kgfcm	
	T6-1-4-080C	80A	F1	210	110	183	170	105	1.8	15	25	M6	75kgfcm	
	T6-1-4-100C	100A	F2	235	110	183	170	105	2.5	18	33	M6	85kgfcm	Air coling
	T6-1-4-125C	125A	F2	235	110	183	170	105	2.5	22	40	M6	95kgfcm	
	T6-1-4-150C	150A	F2	235	110	183	170	105	2.8	26	45	M8	170kgfcm	
	T6-1-4-175C	175A	F2	235	110	183	170	105	2.8	30	50	M8	200kgfcm	
	T6-1-4-200C	200A	F2	250	140	205	170	135	3.8	35	62	M8	220kgfcm	
	T6-1-4-225C	225A	F2	250	140	205	170	135	3.8	39	66	M8	250kgfcm	
	T6-1-4-300C	300A	F2	250	140	205	170	135	4.5	52	90	M10	250kgfcm	
	T6-1-4-400C	400A	F2	250	140	205	170	135	5.5	70	120	M12	250kgfcm	
	T6-1-4-500C	500A	F2	250	140	205	170	135	5.5	90	150	M12	250kgfcm	
3 ⌀ ET6 Mode	T6-4-4-030C	30A	F1	210	140	205	170	135	2.8	8.5	16	M6	40kgfcm	Natural
	T6-4-4-050C	50A	F3	250	140	205	170	135	3.5	14	26	M6	50kgfcm	Air coling
	T6-4-4-060C	60A	F3	250	140	205	170	135	3.9	16	32	M6	50kgfcm	
	T6-4-4-075C	75A	F3	250	140	205	170	135	3.9	22	40	M6	70kgfcm	
	T6-4-4-080C	80A	F3	250	140	205	170	135	3.9	25	42	M6	75kgfcm	
	T6-4-4-100C	100A	F3	250	140	205	170	135	3.9	32	56	M6	85kgfcm	
	T6-4-4-125C	125A	F3	300	140	205	170	135	5.1	38	67	M6	95kgfcm	
	T6-4-4-150C	150A	F3	300	140	205	170	135	5.7	45	80	M8	170kgfcm	
	T6-4-4-175C	175A	F3	300	140	205	170	135	5.7	50	90	M8	200kgfcm	
	T6-4-4-200C	200A	F4	335	265	235	225	255	13	55	100	M8	220kgfcm	
	T6-4-4-225C	225A	F4	335	265	235	225	255	13	68	120	M8	250kgfcm	
	T6-4-4-300C	300A	F4	335	265	235	225	255	18	89	160	M10	250kgfcm	
	T6-4-4-400C	400A	F4	390	265	235	235	255	22	120	220	M12	250kgfcm	
	T6-4-4-500C	500A	F4	390	265	235	225	255	26	150	270	M14	250kgfcm	
	T6-4-4-800C	800A	F4	390	440	235	300	430	30	260	450	M16	250kgfcm	

T6 (several demonstrate V Fixed voltage)

V (constant voltage returns is detected control). Is suitable in: Automatic control firm output voltage value

Product characteristic:

1: Many kinds of input modes, Changes the hypothesis by the software, Does Does not need to change the type, The use is more convenient
2: May demonstrate the input percentage when output current directly, Monitors easily
3: The unusual condition occurs when, Stops the output immediately, And demonstrates the breakdown reason
4: The origination side operates the type surface lid, The security is good, Provides artistic and the high quality requests
5: High accuracy element control, Input precision 0.1% 0.1, output precision 0.1% 0.3
6: Many kinds of output patterns, Echoes any special load control to request
7: Decides the voltage function, Echoes each kind of special load request

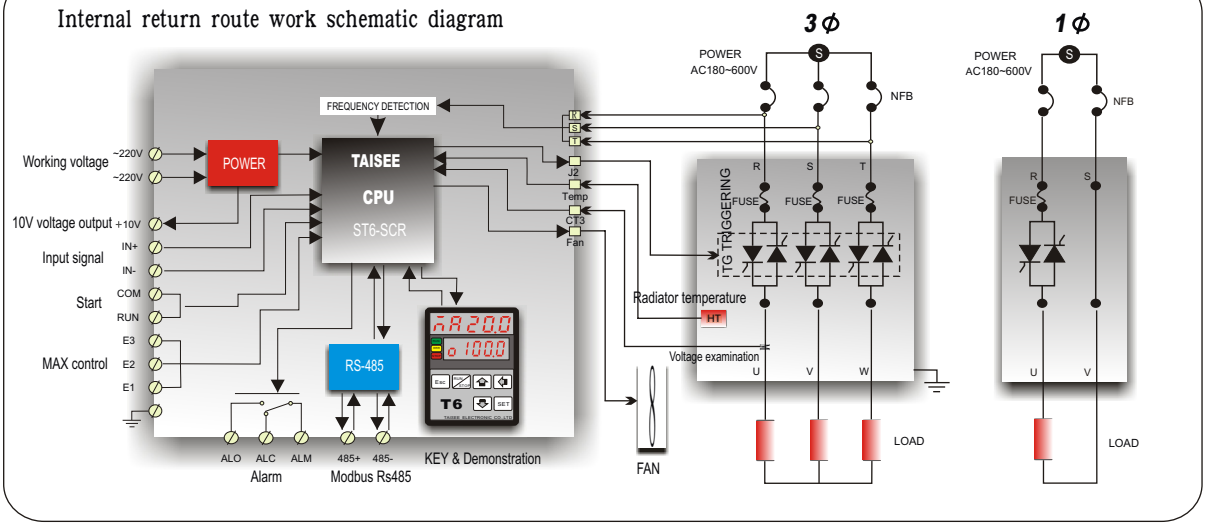
(Proportion type phase control) each kind Of change load, and general load	
30%OUT	
50%OUT	
90%OUT	

Output state Outputs the stable linearity to be good, the ampere meter does not vibrate, output precision 0.1%, non-wave tilt disturbance phenomenon

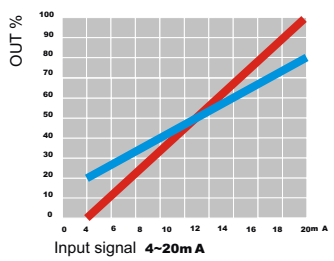
Load characteristics Decides the resistance wire filament, the light control, the light control, the inductive load, Changes the Resistance heating element hurriedly, the infrared tube.

Suitable situation May establish the output voltage, when the voltage or the variation of load electric voltage enlarges reduces,

Internal return route work schematic diagram

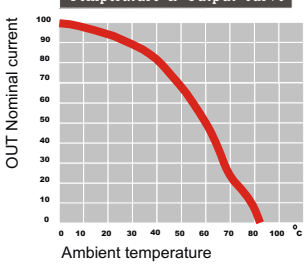


Output hypothesis



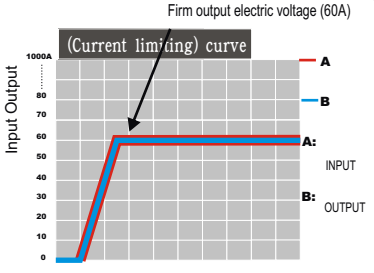
Value of exports limit: The maximum output quantity 0~100%
Change willfully The minimum output 0~30% change willfully

Temperature & Output curve



Between the ambient temperature and the output current corresponds the change

(Current limiting) curve



C decides the electric voltage output: By input signal % Corresponding output The closed loop return route control, detects the output voltage promptly

T6 (several demonstrate V Fixed voltage)

Noten

Before the shaping, please first determine:
Load whether in SCR capacity scope

Computing mode:

(Single-phase): Load (KW)/voltage (V)= ampere (A)*(1.15)= uses SCR ampere (A) elected

(Three-phase): [load (KW)/voltage (V)]/ $\sqrt{3}$ = ampere (A)*(1.15)= uses SCR ampere (A) elected

Model recognition

T6 — 1 — 4 — 100 — V — R → R-modebs RTU Rs485

- T6- Type
- 1- single-phase
  4- three-phase phases
- 4 - AC180~600V
- Current 30A~800A
  030--30A 040--40A 050--50A
  060--60A 075--75A 080--80A
  100--100A 125--125A 150--150A
  175--175A 200--200A 225--225A
  300--300A 400--400A 500--500A
- V-Fixed voltage output

V fixed electric voltage type; Product specification size table

Output wave shape

Specification model		Current	Chart	Outward appearance size(mm)			Fixed size (mm)		Kg	Load KW		Locks the Niu strength		Coolant
				Long	Width	High	Long	Width		220V	380V			
1 ⌀ ET6 Mode	T6-1-4-030V	30A	F1	210	110	183	170	105	1.8	5.5	9	M6	40kgfcm	Natural Cooling
	T6-1-4-050V	50A	F1	210	110	183	170	105	1.8	8.5	12	M6	50kgfcm	
	T6-1-4-060V	60A	F1	210	110	183	170	105	1.8	10	18	M6	50kgfcm	
	T6-1-4-075V	75A	F1	210	110	183	170	105	1.8	14	24	M6	70kgfcm	
	T6-1-4-080V	80A	F1	210	110	183	170	105	1.8	15	25	M6	75kgfcm	
	T6-1-4-100V	100A	F2	235	110	183	170	105	2.5	18	33	M6	85kgfcm	Air coling
	T6-1-4-125V	125A	F2	235	110	183	170	105	2.5	22	40	M6	95kgfcm	
	T6-1-4-150V	150A	F2	235	110	183	170	105	2.8	26	45	M8	170kgfcm	
	T6-1-4-175V	175A	F2	235	110	183	170	105	2.8	30	50	M8	200kgfcm	
	T6-1-4-200V	200A	F2	250	140	205	170	135	3.8	35	62	M8	220kgfcm	
	T6-1-4-225V	225A	F2	250	140	205	170	135	3.8	39	66	M8	250kgfcm	
	T6-1-4-300V	300A	F2	250	140	205	170	135	4.5	52	90	M10	250kgfcm	
	T6-1-4-400V	400A	F2	250	140	205	170	135	5.5	70	120	M12	250kgfcm	
	T6-1-4-500V	500A	F2	250	140	205	170	135	5.5	90	150	M12	250kgfcm	
3 ⌀ ET6 Mode	T6-4-4-030V	30A	F1	210	140	205	170	135	2.8	8.5	16	M6	40kgfcm	Natural
	T6-4-4-050V	50A	F3	250	140	205	170	135	3.5	14	26	M6	50kgfcm	Air coling
	T6-4-4-060V	60A	F3	250	140	205	170	135	3.9	16	32	M6	50kgfcm	
	T6-4-4-075V	75A	F3	250	140	205	170	135	3.9	22	40	M6	70kgfcm	
	T6-4-4-080V	80A	F3	250	140	205	170	135	3.9	25	42	M6	75kgfcm	
	T6-4-4-100V	100A	F3	250	140	205	170	135	3.9	32	56	M6	85kgfcm	
	T6-4-4-125V	125A	F3	300	140	205	170	135	5.1	38	67	M6	95kgfcm	
	T6-4-4-150V	150A	F3	300	140	205	170	135	5.7	45	80	M8	170kgfcm	
	T6-4-4-175V	175A	F3	300	140	205	170	135	5.7	50	90	M8	200kgfcm	
	T6-4-4-200V	200A	F4	335	265	235	225	255	13	55	100	M8	220kgfcm	
	T6-4-4-225V	225A	F4	335	265	235	225	255	13	68	120	M8	250kgfcm	
	T6-4-4-300V	300A	F4	335	265	235	225	255	18	89	160	M10	250kgfcm	
	T6-4-4-400V	400A	F4	390	265	235	235	255	22	120	220	M12	250kgfcm	
	T6-4-4-500V	500A	F4	390	265	235	225	255	26	150	270	M14	250kgfcm	
	T6-4-4-800V	800A	F4	390	440	235	300	430	30	260	450	M16	250kgfcm	

T6(several demonstrate ZP full-wave control)

ZP (three-phase full-wave control) may change the output mode (zero position/phase). (may meet zero curve)

1. the phase start zero position revolves 2. zero position to start the phase revolution
3.Phase output. Zero position output exchange

May select and purchase the current limiting. Constant flow. Constant pressure. And so on types

(Assignment type zero position output) only suits the general pure resistance silk load	
30%OUT	
50%OUT	
90%OUT	

Output state Take the full wave as the unit, the non-half-wave ingredient may reach the maximum power factor, saves the electricity Not to have the wave tilt disturbance; When output the ampere meter has the vibration condition;

Load characteristics Decides the resistance wire filament (not to be possible to use in light control, inductive load, changes resistance heating element hurriedly);

Suitable situation The constant temperature air conditioning, the heat-treatment furnace, the hot oven, mortgages machine;

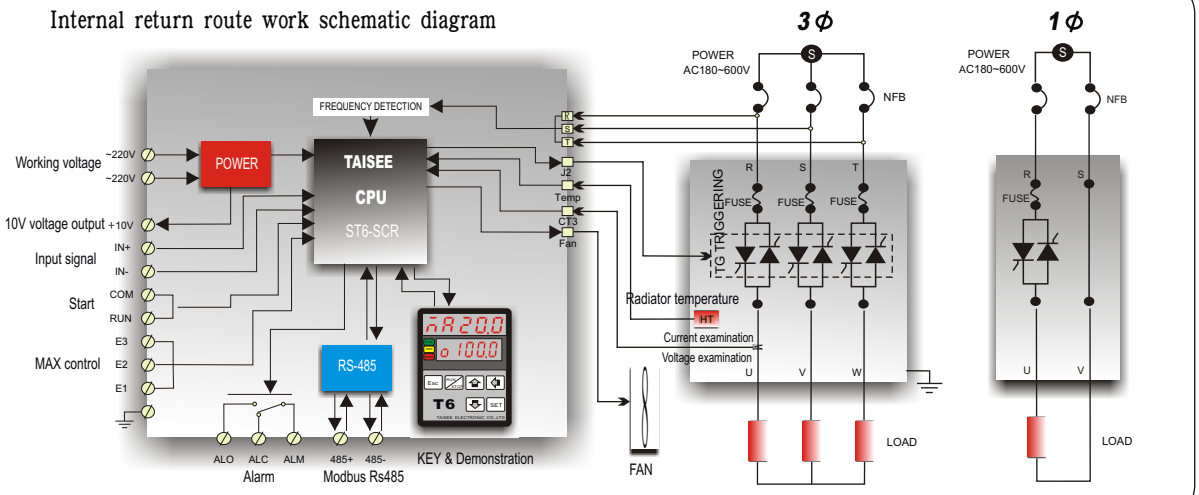
(Proportion type phase control) each kind Of change load, and general load	
30%OUT	
50%OUT	
90%OUT	

Output state Outputs the stable linearity to be good, the ampere meter does not vibrate, output precision 0.1%, non-wave tilt disturbance phenomenon

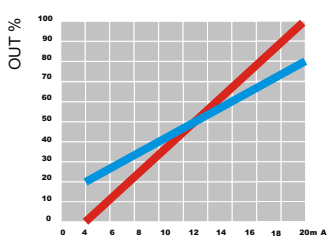
Load characteristics Decides the resistance wire filament, the light control, the light control, the inductive load, Changes the Resistance heating element hurriedly, the infrared tube.

Suitable situation Electric stove, infrared oven, temperature Change fast keen equipment.

Internal return route work schematic diagram

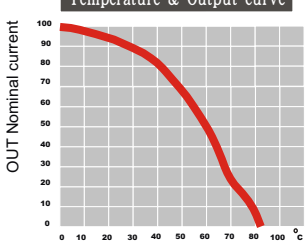


Output hypothesis



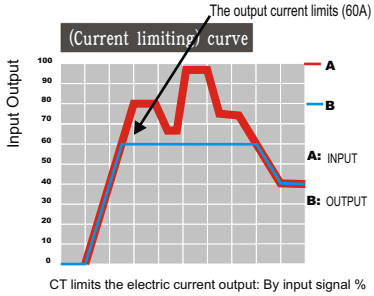
Value of exports limit: The maximum output quantity 0~100% Change willfully The minimum output 0~30% change willfully

Temperature & Output curve



Between the ambient temperature and the output current corresponds the change

(Current limiting) curve



CT limits the electric current output: By input signal % Corresponding output The closed loop return route (input voltage perhaps output load, has change) When the output copper current, is bigger than Nthe setting value, automatic pass Small output

T6(several demonstrate ZP full-wave control)

Noten

Before the shaping, please first determine:
Load whether in SCR capacity scope

Computing mode:

(Single-phase): Load (KW)/voltage (V)= ampere (A)*(1.15)= uses SCR ampere (A) elected

(Three-phase): [load (KW)/voltage (V)]/ $\sqrt{3}$ = ampere (A)*(1.15)= uses SCR ampere (A) elected

Model recognition

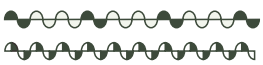
T6 — 1 — 4 — 100 — ZP — CT — R → R-modebs RTU Rs485

- T6- Type
- 1- single-phase
  4- three-phase phases
- 4 - AC180~600V
- Current 30A~800A

  030--30A 040--40A 050--50A
  060--60A 075--75A 080--80A
  100--100A 125--125A 150--150A
  175--175A 200--200A 225--225A
  300--300A 400--400A 500--500A
- ZP-full-wave
- N - ordinary type
  CT- limiting current
  C- fixed current
  C- fixed voltage

ZP full-wavw control type; Product specification size table

Output wave shape



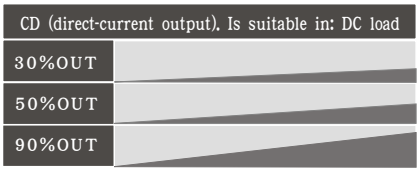
Specification model		Current	Chart	Outward appearance size(mm)			Fixed size (mm)		Kg	Load KW		Locks the Niu strength		Coolant
				Long	Width	High	Long	Width		220V	380V			
1 ⌀ ET6 Mode	T6-1-4-030ZP	30A	F1	210	110	183	170	105	1.8	5.5	9	M6	40kgfcm	Natural Cooling
	T6-1-4-050ZP	50A	F1	210	110	183	170	105	1.8	8.5	12	M6	50kgfcm	
	T6-1-4-060ZP	60A	F1	210	110	183	170	105	1.8	10	18	M6	50kgfcm	
	T6-1-4-075ZP	75A	F1	210	110	183	170	105	1.8	14	24	M6	70kgfcm	
	T6-1-4-080ZP	80A	F1	210	110	183	170	105	1.8	15	25	M6	75kgfcm	
	T6-1-4-100ZP	100A	F2	235	110	183	170	105	2.5	18	33	M6	85kgfcm	Air coling
	T6-1-4-125ZP	125A	F2	235	110	183	170	105	2.5	22	40	M6	95kgfcm	
	T6-1-4-150ZP	150A	F2	235	110	183	170	105	2.8	26	45	M8	170kgfcm	
	T6-1-4-175ZP	175A	F2	235	110	183	170	105	2.8	30	50	M8	200kgfcm	
	T6-1-4-200ZP	200A	F2	250	140	205	170	135	3.8	35	62	M8	220kgfcm	
	T6-1-4-225ZP	225A	F2	250	140	205	170	135	3.8	39	66	M8	250kgfcm	
	T6-1-4-300ZP	300A	F2	250	140	205	170	135	4.5	52	90	M10	250kgfcm	
	T6-1-4-400ZP	400A	F2	250	140	205	170	135	5.5	70	120	M12	250kgfcm	
	T6-1-4-500ZP	500A	F2	250	140	205	170	135	5.5	90	150	M12	250kgfcm	
3 ⌀ ET6 Mode	T6-5-4-030ZP	30A	F1	210	140	205	170	135	2.8	8.5	16	M6	40kgfcm	Natural
	T6-5-4-050ZP	50A	F3	250	140	205	170	135	3.5	14	26	M6	50kgfcm	Air coling
	T6-5-4-060ZP	60A	F3	250	140	205	170	135	3.9	16	32	M6	50kgfcm	
	T6-5-4-075ZP	75A	F3	250	140	205	170	135	3.9	22	40	M6	70kgfcm	
	T6-5-4-080ZP	80A	F3	250	140	205	170	135	3.9	25	42	M6	75kgfcm	
	T6-5-4-100ZP	100A	F3	250	140	205	170	135	3.9	32	56	M6	85kgfcm	
	T6-5-4-125ZP	125A	F3	300	140	205	170	135	5.1	38	67	M6	95kgfcm	
	T6-5-4-150ZP	150A	F3	300	140	205	170	135	5.7	45	80	M8	170kgfcm	
	T6-5-4-175ZP	175A	F3	300	140	205	170	135	5.7	50	90	M8	200kgfcm	
	T6-5-4-200ZP	200A	F4	335	265	235	225	255	13	55	100	M8	220kgfcm	
	T6-5-4-225ZP	225A	F4	335	265	235	225	255	13	68	120	M8	250kgfcm	
	T6-5-4-300ZP	300A	F4	335	265	235	225	255	18	89	160	M10	250kgfcm	
	T6-5-4-400ZP	400A	F4	390	265	235	235	255	22	120	220	M12	250kgfcm	
	T6-5-4-500ZP	500A	F4	390	265	235	225	255	26	150	270	M14	250kgfcm	
	T6-5-4-800ZP	800A	F4	390	440	235	300	430	30	260	450	M16	250kgfcm	

T6 (several demonstrate CD output)

CD (exchange input direct-current output control) Is suitable in: Each kind of DC load

Product characteristic:

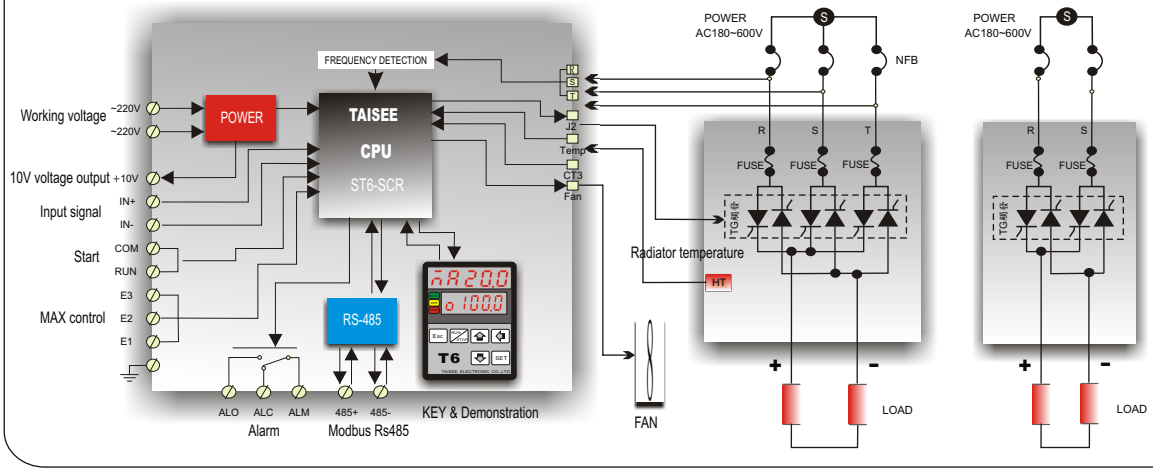
1: Many kinds of input modes. Changes the hypothesis by the software. Does Does not need to change the type. The use is more convenient
2: May demonstrate the input percentage when output current directly. Monitors easily
3: The unusual condition occurs when. Stops the output immediately. And demonstrates the breakdown reason
4: The origination side operates the type surface lid. The security is good. Provides artistic and the high quality requests
5: High accuracy element control. Input precision 0.1% 0.1. output precision 0.1% 0.3
6: Many kinds of output patterns. Echoes any special load control to request



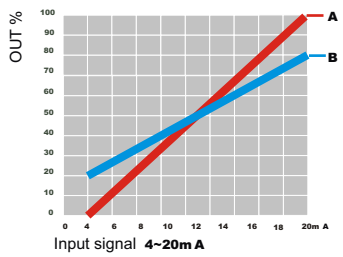
Output state Take the full wave as the unit, the non-half-wave ingredient may reach the maximum power factor, saves the electricity
Not to have the wave tilt disturbance;
When output the ampere meter has the vibration condition;

Load characteristics Decides the resistance wire filament (not to be possible to use in light control, inductive load, changes resistance heating element hurriedly);
Outputs the DC voltage. Does not have the section adjustment
By dc 0V~600V. Precision 0.1%

Internal return route work schematic diagram

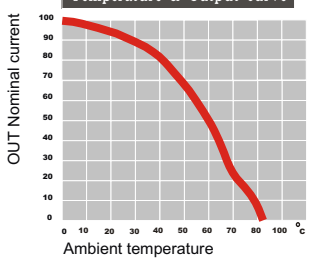


Output hypothesis



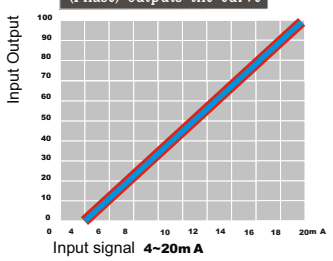
Value of exports limit: The maximum output quantity 0~100%
Change willfully The minimum output 0~30% change willfully

Temperature & Output curve



Between the ambient temperature and the output current corresponds the change

(Phase) outputs the curve



Output: By input signal %; Corresponding output
The opening control, does not detect the output voltage.

T6 (several demonstrate CD output)

Noten

Before the shaping, please first determine:
Load whether in SCR capacity scope

Computing mode:

(Single-phase): Load (KW)/voltage (V)= ampere (A)*(1.15)= uses SCR ampere (A) elected

(Three-phase): [load (KW)/voltage (V)]/ $\sqrt{3}$ = ampere (A)*(1.15)= uses SCR ampere (A) elected

Model recognition

T6 — 1 — 4 — 100 — CD — R → R-modebs RTU Rs485

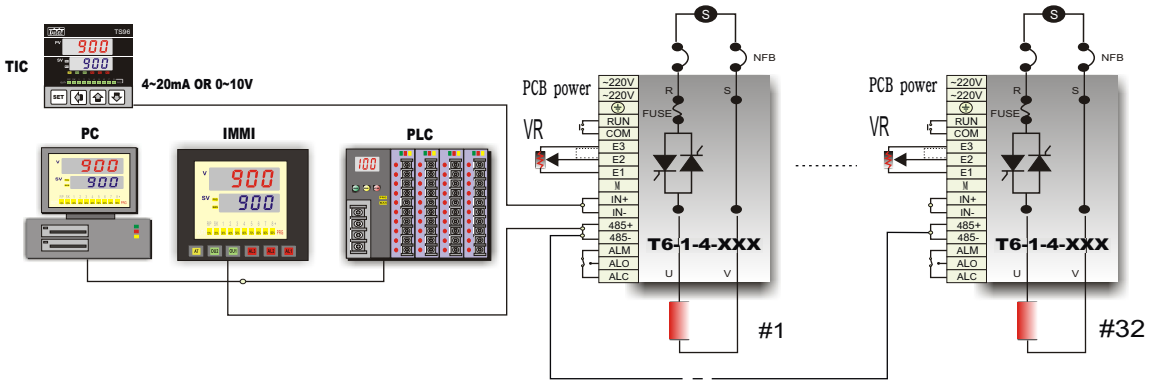
- T6- Type
- 1- single-phase
  4- three-phase phases
- 4 - AC180~600V
- Current 30A~800A
  030--30A 040--40A 050--50A
  060--60A 075--75A 080--80A
  100--100A 125--125A 150--150A
  175--175A 200--200A 225--225A
  300--300A 400--400A 500--500A
- DC-DC output

DC load type; Product specification size table

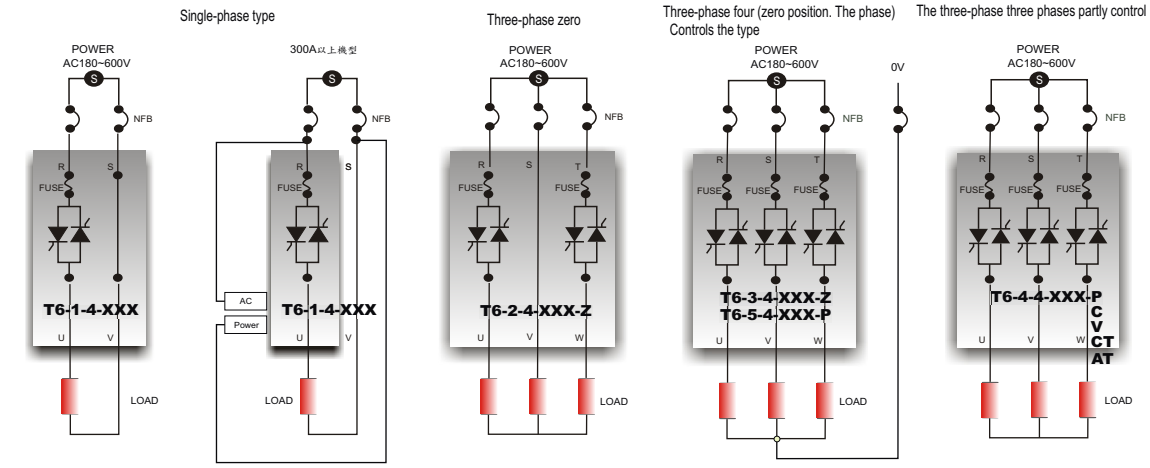
Output wave shape

Specification model		Current	Chart	Outward appearance size(mm)			Fixed size (mm)		Kg	Locks the Niu strength		Coolant
				Long	Width	High	Long	Width				
1 ⌀ ET6 Mode	T6-1-4-030CD	30A	F1	210	110	183	170	105	1.8	M6	40kgfcm	Natural Cooling
	T6-1-4-050CD	50A	F1	210	110	183	170	105	1.8	M6	50kgfcm	
	T6-1-4-060CD	60A	F1	210	110	183	170	105	1.8	M6	50kgfcm	
	T6-1-4-075CD	75A	F1	210	110	183	170	105	1.8	M6	70kgfcm	
	T6-1-4-080CD	80A	F1	210	110	183	170	105	1.8	M6	75kgfcm	
	T6-1-4-100CD	100A	F2	235	110	183	170	105	2.5	M6	85kgfcm	Air coling
	T6-1-4-125CD	125A	F2	235	110	183	170	105	2.5	M6	95kgfcm	
	T6-1-4-150CD	150A	F2	235	110	183	170	105	2.8	M8	170kgfcm	
	T6-1-4-175CD	175A	F2	235	110	183	170	105	2.8	M8	200kgfcm	
	T6-1-4-200CD	200A	F2	250	140	205	170	135	3.8	M8	220kgfcm	
	T6-1-4-225CD	225A	F2	250	140	205	170	135	3.8	M8	250kgfcm	
	T6-1-4-300CD	300A	F2	250	140	205	170	135	4.5	M10	250kgfcm	
	T6-1-4-400CD	400A	F2	250	140	205	170	135	5.5	M12	250kgfcm	
	T6-1-4-500CD	500A	F2	250	140	205	170	135	5.5	M12	250kgfcm	
3 ⌀ ET6 Mode	T6-4-4-030CD	30A	F1	210	140	205	170	135	2.8	M6	40kgfcm	Natural
	T6-4-4-050CD	50A	F3	250	140	205	170	135	3.5	M6	50kgfcm	Air coling
	T6-4-4-060CD	60A	F3	250	140	205	170	135	3.9	M6	50kgfcm	
	T6-4-4-075CD	75A	F3	250	140	205	170	135	3.9	M6	70kgfcm	
	T6-4-4-080CD	80A	F3	250	140	205	170	135	3.9	M6	75kgfcm	
	T6-4-4-100CD	100A	F3	250	140	205	170	135	3.9	M6	85kgfcm	
	T6-4-4-125CD	125A	F3	300	140	205	170	135	5.1	M6	95kgfcm	
	T6-4-4-150CD	150A	F3	300	140	205	170	135	5.7	M8	170kgfcm	
	T6-4-4-175CD	175A	F3	300	140	205	170	135	5.7	M8	200kgfcm	
	T6-4-4-200CD	200A	F4	335	265	235	225	255	13	M8	220kgfcm	
	T6-4-4-225CD	225A	F4	335	265	235	225	255	13	M8	250kgfcm	
	T6-4-4-300CD	300A	F4	335	265	235	225	255	18	M10	250kgfcm	
	T6-4-4-400CD	400A	F4	390	265	235	235	255	22	M12	250kgfcm	
	T6-4-4-500CD	500A	F4	390	265	235	225	255	26	M14	250kgfcm	
	T6-4-4-800CD	800A	F4	390	440	235	300	430	30	M16	250kgfcm	

T6-SCR (wiring model)



The Modbus485 communication contact surface, most may connect 32 SCR, most long distance 1200M



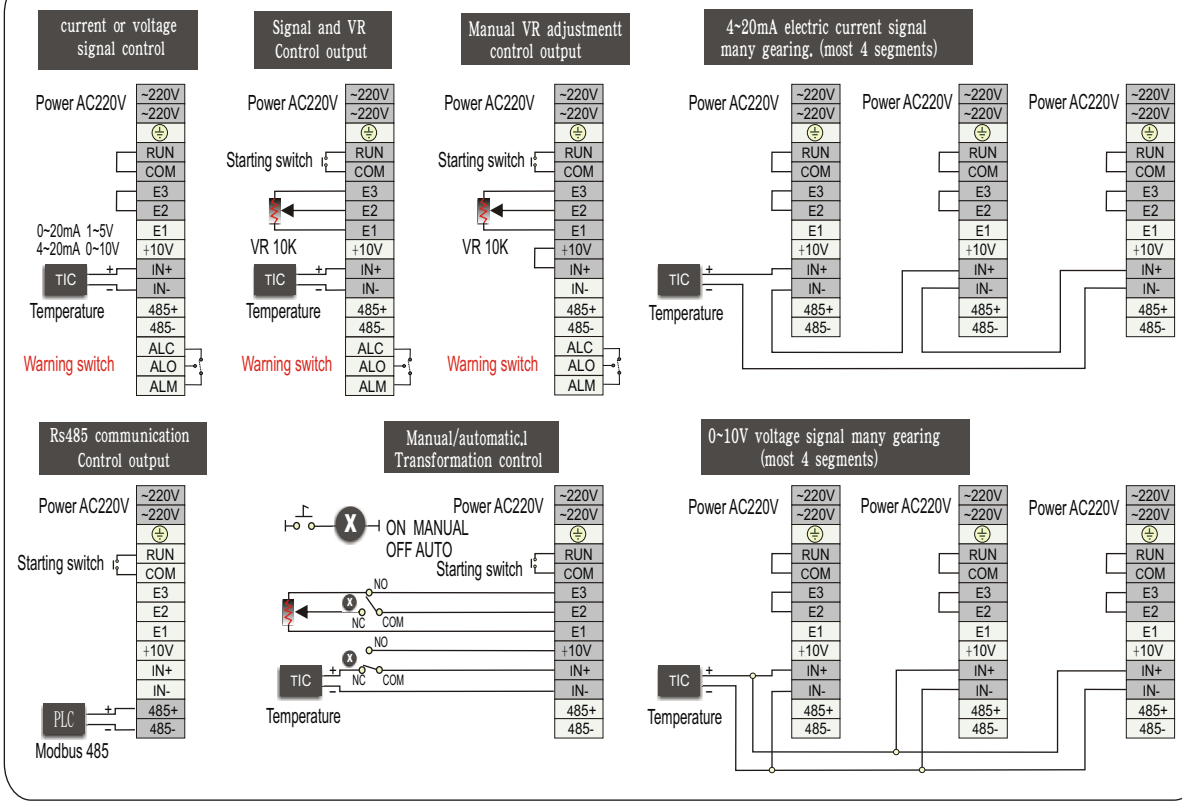
Output zero position. The phase may change

Zero position control two phase

All controls the type output (the zero position. The phase) may change

The phase partly controls

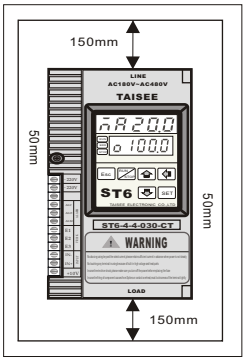
The Pc board sample power source must with the main power source synchronism

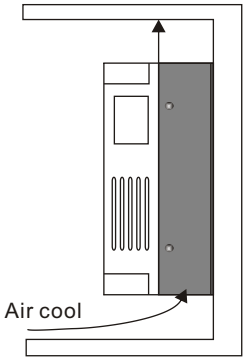


T6 (several demonstrations compact)

Installs the way and the needing attention

The power regulator to give off heat hight the original part,must the power regulator vertical installment,its hight and low
About with the goods which and the files board is nesr must maintain the foot space raciation The follwing chart shows
If use ambient temperature-10℃~45℃ surpasses abover 40℃,please install the heat dissipating arrangement
The improvement temperature





Installs the environment

- ▲ Does not have the waterdrop.Vapor.Dust And place of the greasy dust
- ▲ Does not have the corrosion.Flammability gas
- ▲ Non-Flammability dust and metal particle
- ▲ Firm non-vibrates the place
- ▲ Place of the non-electromagnetism Miscellaneous news disturbance

Unusual examintion service way

Unusual Value Demostue ration	Unusual reason	Processing mode,and improvement method
ERROR R-OL	The R load current is unusual The current error supasses ALP setting value	AT electr ic current type 1.Inspects the R load filament whether to burn down creates the electr ic Current exctric current exceptionally 2.The inspection way will advocate The survey load to be whether normal
ERROR S-OL	The S load current is unusual The current error supasses ALP setting value	AT electr ic current type 1.Inspects the S load filament whether to burn down creates the electr ic Current exctric current exceptionally 2.The inspection way will advocate The survey load to be whether normal
ERROR T-OL	The T load current is unusual The current error supasses ALP setting value	AT electr ic current type 1.Inspects the T load filament whether to burn down creates the electr ic Current exctric current exceptionally 2.The inspection way will advocate The survey load to be whether normal
ERROR POWER	No power source or The fuse burns down above 2	1.Inspects the R S T three-phase power source whether normal 2:Inspects the SCR interi or Fuse whether to have overburning the inspection way the main power source closuer uses the Avometer,surveys the SCR interi or fuse the normal fuse is the short
ERROR R-PH	The power source carries R to Lack,perhaps R fuse over	1.Inspects the R phase power source whether normal 2:Inspects the SCR interi or Fuse whether to have overburning the inspection way the main power source closuer uses the Avometer,surveys the SCR interi or fuse the normal fuse is the short
ERROR S-PH	The power source carries S to Lack,perhaps S fuse over	1.Inspects the S phase power source whether normal 2:Inspects the SCR interi or Fuse whether to have overburning the inspection way the main power source closuer uses the Avometer,surveys the SCR interi or fuse the normal fuse is the short
ERROR T-PH	The power source carries T to Lack,perhaps T fuse over	1.Inspects the T phase power source whether normal 2:Inspects the SCR interi or Fuse whether to have overburning the inspection way the main power source closuer uses the Avometer,surveys the SCR interi or fuse the normal fuse is the short
ERROR TEMP	(Radiator overheated) Radiates dab,excess temp Instructi on stops the output	The read iator surpasses when 85℃ the SCR stop outpots The environment temperature is too high envirnmental enhancement temperature
ERROR OE	The load earth(leakage) Stops the output	AT electr ic current type 1:The load has bumps touches the cabinet 2:Wheter the inspection filament Interi or does have the earth phenomenon
ERROR OL	(Is unable closure) The load earth curve,perhaps SCR interi or breakdown	current type Must all contorl s the type load not to be possibl e to meet the zero curve to create Out of control 2:Inspects the SCR interna l module whether to have the short
ERROR LOAD	(load broken line) has not met The load,perhaps the load is Smaller than 0.6 ampere	current type The out-port has not met the load,Inspects the SCR out-port load to be Whether normalt
ERROR OC	(Electr ic current) over load Perhaps load short circuit	current type The load KW number is bigger than SCR ampere, Inspects the Oot-port load whether to have the short pass
ERROR ERROR	(System exceptionally) the SCR interi or breakdown Is unable to revolve	The SCR interna l system is unusual,is unable the normal work plase to contact the dealer Or returns to this factory overhaul

T6-SCR (parameter setting)

Specialized design, Brand-new development, Multi-purpose protections, Foundation [electric power adjuster] epoch:

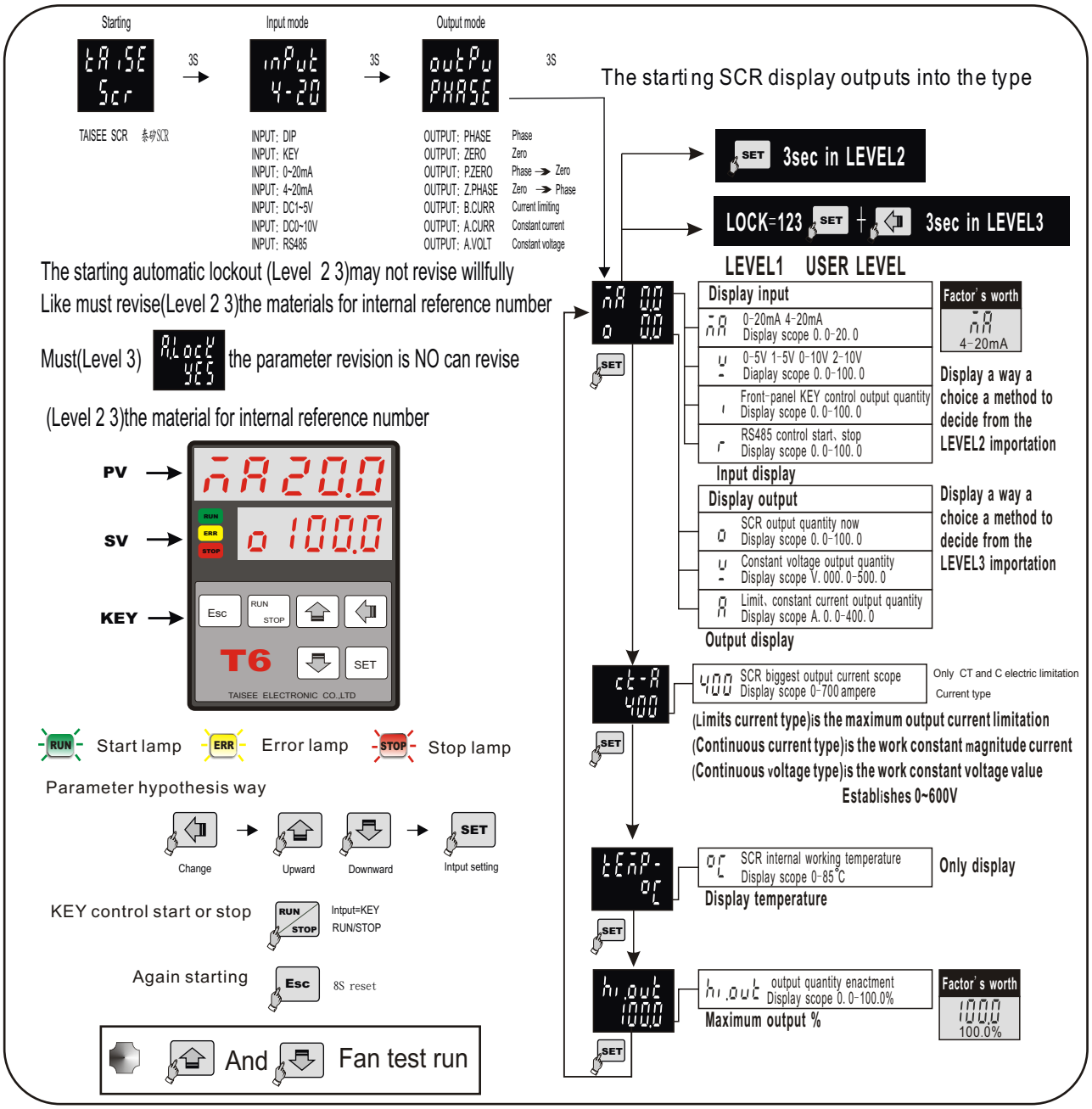
(1). Output input pattern: By the parameter change, does not need any hardware to revise, the use is more convenient

(2). Crosses the electric current detection protection, when the overcurrent reduces the output automatically

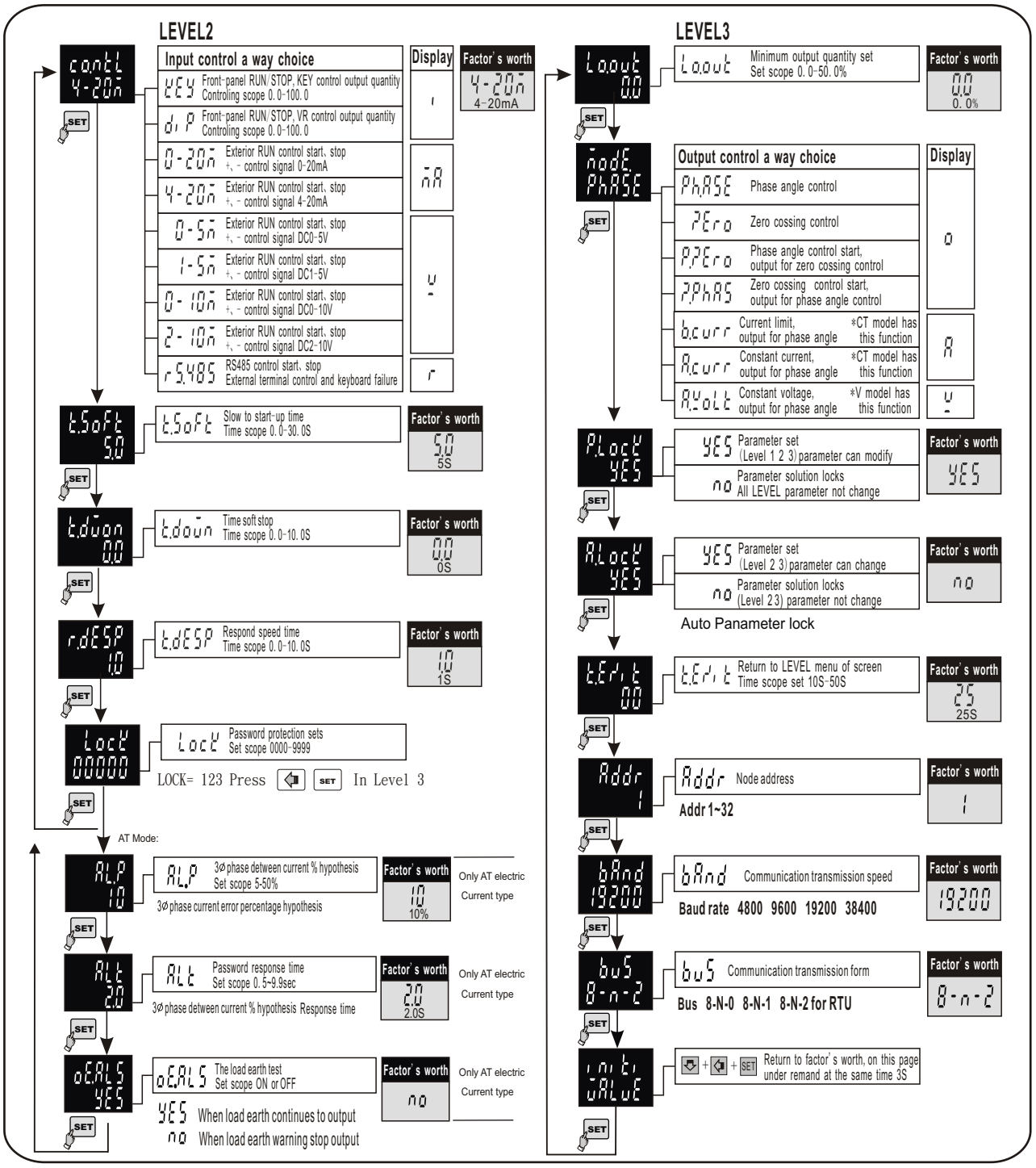
(3). May establish exceptionally occurs time. Stops the output immediately, the screen demonstration unusual reason, the overhaul is easy

(4). .RS485 communication function, most 32 at the same time segments

(5). May choose and match the external card type, the operation monitoring is more convenient

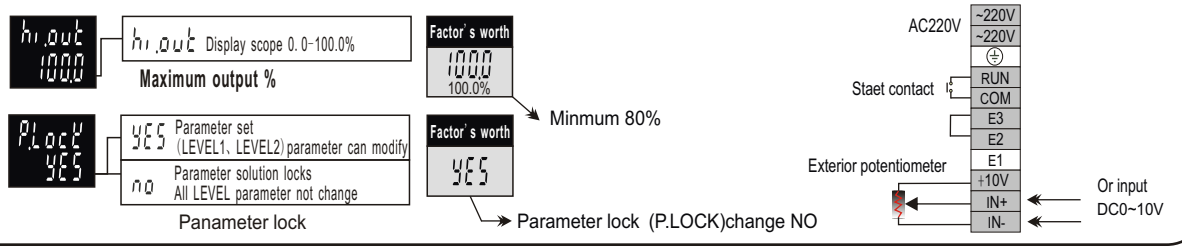


T6-SCR (parameter setting)



Constant fiow type hypothesis matters needing attention

- The net load is 400 ampere The hypothesis way (Level 1 maximum output percentage reduces social stratum) to 80% causes (IN+ IN-) The post inputs DC0~10V , corresponds 0~400 ampere to output %;(500 ampere*80%=400 ampere)
- The hypothesis completes to prevent other people to recognize the Italian change parameter, suggested specially locks the parameter (Level 3) the parameter locks P.LOCK to chanfer = NO



Data address

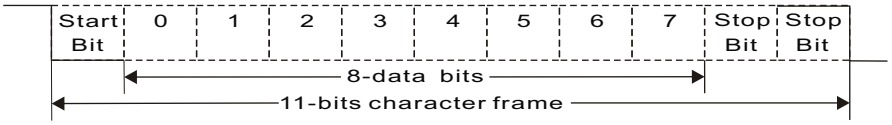
Definition	Address	R/W	Function explanation		
SCR-output %	000H	R/W	Output 0~100%		
Current definition	001H	R/W	Maximum output currnet (mode:current)		
Setting current Setting voltage	002H	R/W	Output current setting (mode:current) Output voltage setting (mode:voltage)		
Active status	003H	R/W	Output on/off condition		
The upper row control mode must Be the rs485 way can read in			Bit0	=0:Start =1:Stop	
			Bit1~15	Retention	
Definition	Address	R	Function explanation		
Maximum	004H	R	Maximum 0~100%		
Minimum	005H	R	Minimum 0~100%		
Soft start	006H	R	Soft start timer		
Soft stop	007H	R	Soft stop timer		
Reaction time	008H	R	Signal input control		
Input control	009H	R	01H	KEY	KEY Control
			02H	DIP	Retention
			03H	0~20mA	0~20mA input control
			04H	4~20mA	4~20mA input control
			05H	0~5V	0~5V input control
			06H	1~5V	1~5V input control
			07H	0~10V	0~10V input control
			08H	2~10V	2~10V input control
			09H	Rs485	Rs485 input control
SCR Input	00AH	R	SCR Input signal%		
SCR Output	00BH	R	SCR Output signal%		
SCR Work temp	00CH	R	SCR Radiator temperature		
SCR Error	00DH	R	Bit0	=1:Power error =0:normal	
			Bit1	=1:R-Phase error =0:normal	
			Bit2	=1:S-Phase error =0:normal	
			Bit3	=1:T-Phase error =0:normal	
			Bit4	=1:Excess temp =0:normal	
			Bit5	=1:Broken line =0:normal	
			Bit6	=1:Over current =0:normal	
			Bit7	=1:Open load =0:normal	
			Bit8	=1:Short load =0:normal	
			Bit9~15	Retention	
Output (C.V)%	00EH	R	(Current or voltage) output %		

T6-SCR (communication form)

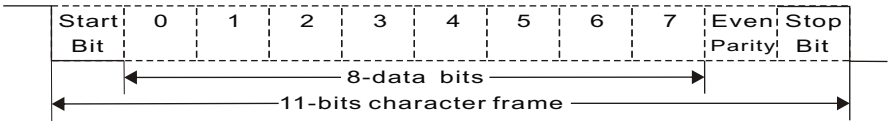
Modbus form and communication way

Communication: Baud rate: 4800/9600/19200/38400 bps
Communication: (11-bit byte) Data: (8 -bit)

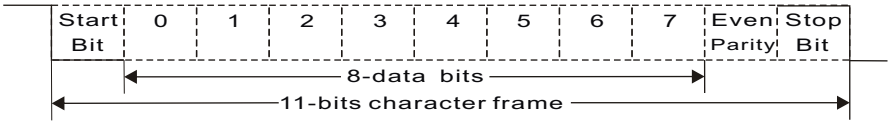
<8: N: 2: >



<8: E: 1: >



<8: 0: 1: >



Communication tada structure

Start	Maintains the non-input signal waits for is bigger than 10ms
ADR	Address 8-bit
CMD	Function: 8-bit address
DATA (n-1)	Data
.....	n X 8-bit data , N<=25
DATA0	
CRC CHK Low	CRC check
CRC CHK High	16-bit check(2n 8-bit)data
END	Maintains the no signal waits for is bigger than 10ms

Reading: 0BH

RTU Command message

0	ADR		01H
1	CMD		03H
2		MSB	00H
3	Start address	LSB	0BH
4	Number data	MSB	00H
5	Count by word	LSB	01H
6		LSB	F5H
7	CRC chenk	MSB	C8H

RTU Response message

0	ADR		01H
1	CMD		03H
2	Dtad bit	MSB	00H
3	Ncunt bybyte	LSB	02H
4	Dtad content	MSB	03H
5		LSB	E8H
6		LSB	E4H
7	CRC chenk	MSB	B4H

Writing: 00H

RTU Command message

0	ADR		01H
1	CMD		06H
2		MSB	00H
3	Dtad address	LSB	00H
4		MSB	02H
5	Dtad content	LSB	BCH
6		LSB	89H
7	CRC chenk	MSB	1BH

RTU Response message

0	ADR		01H
1	CMD		06H
2		MSB	00H
3	Start address	LSB	00H
4		MSB	02H
5	Dtad bit	LSB	BCH
6		LSB	89H
7	CRC chenk	MSB	1BH

CRC check:

CRC (cyclical redundancy check) is calculated by the following steps:

STEP 1: Load a 16-bit register (called CRC register) with FFFFH

STEP 2: Exclusive OR the first 8-bit byte of the command message with the low order byte Of the 16-bit CRC register, putting the result in the CRC register

STEP 3: Examine LSB of CRC register

STEP 4: If the LSB of CRC register is 0, shift the CRC is 1, shift the CRC register one bit to The right with MSB zero filling, Exclusive OR the CRC register with the polynomial value A001H, then repeat step 3

STEP 5: Repeat step 3 and step 4 until eight shifts have performed. When this is done, a Complete 8-bit byte will have been processed

STEP 6: Repeat step 2 to step 5 for the next 8-bit byte of the command message. Continue doing this until all Bytes have been processed. The final contents of the CRC register are the CRC value When Transmitting the CRC value in the message. The upper and lower bytes of the CRC value must be Swapped, i.e.the lower order byte will be transmitted first

The following is an example of CRC generation using C language. The function takes two arguments:

Unsigned char* data ← a pointer to the message buffer
Unsigned char lenght ← the guantity of bytes in the message buffer
The function retums the CRC value as a type of unsigned integer

```
Unsigned integer CRC_check(unsigned char* data,unsigned char lenght)
    {
      Int x;
      Unsigned int reg_crc=0XFFFF
      While(lenght--)
            {
              reg_crc^=*data++;
              fox(x=0;<8;x++)
              {
                If(reg_crc&0x01)            //LSB(b0)==1
                    {reg_crc=(reg_crc>>1)^0xa001;}
                 else
                    {reg_crc= reg_crc>>1;  }
              }
            }
           return reg_crc;
      }
```

The following is a simple example of how to write a communication program for modbus mode On a PC by C language

Modbus RTU program of PC

```
#include<stdio.h>
#include<dos.h>
#include<conio.h>
#include<process.h>
#define THR 0X0000
#define RDR 0X0000
#define BRDL 0X0000
#define IER 0X0001
#define BRDH 0X0001
#define LCR 0X0003
#define MCR 0X0004
#define LSR 0X0005
#define MSR 0X0006
Unsigned read_data[100];
Unsigned read_data[10]={0x01,0x03,0x00,0x0B,0x00,0x01,0xF5,0xC8};
{
 int i;
 0utportb(PORT+MCR,0x08);/*interrupt enable */
 0utportb(PORT+IER,0x01);/*interrupt as data in */
 0utportb(PORT+LCR,(inportb(PORT+LCR)l0x80));
                    /* the Baudrata can be access as LCR.B7==1 */
 0utportb(PORT+BRDL,12);/*set baudrate =9600, 12=115200/9600*/
 0utportb(PORT+BRDH,0x00);
 0utportb(PORT+LCR,0x07);/*<8,N,2>=0x07,<8,E,1>=0x1B,<8,0,1>=0x0B*/
  for(i=0;i<8;i++)
   {
   While(!(inportb(PORT+LSR)&0x20));/*wait until THR empty*/
   0utportb(PORT+THR,send_data[i]);   /*send data to THR*/
   }
    i=0
   While(!kbhit())
        {
        If(inportb(PORT+LSR)&0x01) /*b0==1,read data ready*/
          {
          read_data[i++]=inportb(PORT+RDR) ;read data form RDR*/
       }
     }
}
```

TSCR (analogy type SCR)

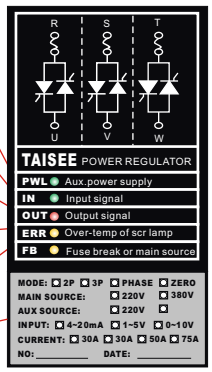
The quality is stable; Does not have any disturbance question, the proportion linear output

The slow start function, controls warm accurate, the function is complete

Kneading board many indicating lamps.
Demonstration active status

- Pw lamp: PC board working voltage indicating lamp
- IN lamp: The exterior signal inputs the indicating lamp
- OUT lamp: SCR output indicating lamp
- ERR lamp: SCR excess temperature indicating lamp
- FB lamp: Main power source unusual indicating lamp

Model specification indication



Model recognition:

Z Zero position cycle control:
Generally pure resistance silk load

P Phase control:
Generally load. Tube. Transformer

1: The input pattern changes by the hardware. Does not need to replace the type. The use is more convenient
2: Kneading board many indicating lamp demonstration input. Output and breakdown news
3. The unusual condition occurs when. Stops the output immediately. Protects internal SCR
4: PC board may limit the maximum output quantity
5: The power adjustment interior installs The high speed fuse. Achieves protects the mold

Matters needing attention:

SCR is the succeeding in the imperial Civil service examinations thermal element the use environment must be lower than 45℃. Will otherwise create the radiation, bad, will cause the excess temperature To stop the output

If is unable to improve the ambient temperature: Then SCR must enlarge a time of above power specification

ETSCR-020

Simple single-phase: ETSCR type
Voltage range: AC100~380V
Current range: 20A~50A

STSCR-1-4-030P

Small single-phase: STSCR type
Voltage range: AC100~380V
Current range: 28A~40A

STSCR-4-4-040P

Small three-phase: STSCR type
Voltage range: AC100~380V
Current range: 28A~40A

TSCR-1-4-075P

Generally single-phase: TSCR type
Voltage range: AC100~380V
Current range: 30A~75A

TSCR-1-4-150P

Generally single-phase: TSCR type
Voltage range: AC100~380V
Current range: 100A~500A

TSCR-4-4-100P

Generally three-phase: TSCR type
Voltage range: AC100~380V
Current range: 100A~500A

TSCR-4-4-250P

Generally three-phase: TSCR type
Voltage range: AC100~380V
Current range: 100A~175A

NTSCR-4-4-100P

Airtight three-phase: NTSCR type
Voltage range: AC100~380V
Current range: 100A~500A

Product characteristic:

Is suitable general in: The request control domain, can the accuracy control temperature, (general pure resistance silk .IR the infrared tube. Is suitable Transformer load) input signal: 4~20mA DC0~5V DC1~5V DC0~10V DC2~10V. The PC board uses pastes the piece part, and special moisture-proof moisture protection dustproof corrosion resistance processing, the complete machine uses the aluminum molding, radiates good artisticly

The kneading board many only LED indicating lamps, demonstrated that the electric power adjustment active status and the breakdown reason, Facilitate monitor and service, PC board working voltage AC220V, main power source scope AC180V~480V

TSCR entire series: Installs the high speed fuse and the overheated stop output protection switch, protects the electric power adjuster. , (three-phase automatic foreword tracing, 50ZH/the 60HZ automatic identification) does not have around the foreword the question

Shaping matters needing attention:

Noten

Computing mode:

Before the shaping, please first determine:
Load whether in SCR capacity scope

(Single-phase): Load (KW)/voltage (V)= ampere (A)*(1.15)= uses SCR ampere (A) elected

(Three-phase): [load (KW)/voltage (V)]/ $\sqrt{3}$ = ampere (A)*(1.15)= uses SCR ampere (A) elected

ETSCR (single-phase simple)

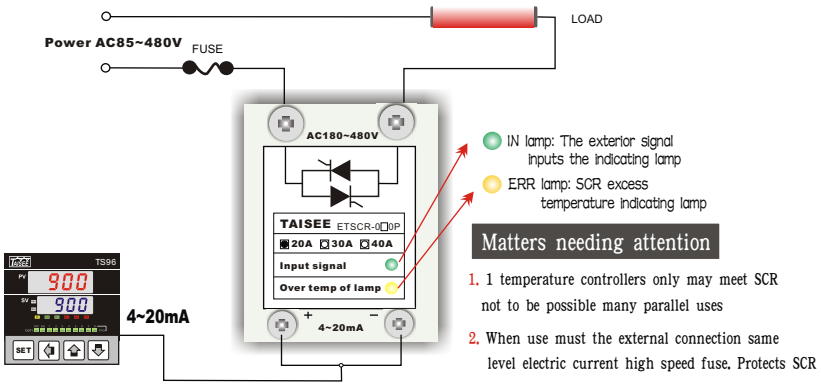
ETSCR (phase control) is suitable for: Generally load. Tube control

Product characteristic

1: Simple (miniaturization) SCR. low unit price first choice
2: Kneading board indicating lamp.
Demonstration active status. Convenience examination service
3: Uses high and low Ge Lishi to design.t
May service reduces the customer cost
4: Not needing working voltage. Only the input warm controls
4~20mA then to work. Easy to operate

Use model

Is only suitable for (temperature controller) the 4~20mA control mode (DC24V 4~20mA)



Matters needing attention

1. 1 temperature controllers only may meet SCR not to be possible many parallel uses
2. When use must the external connection same level electric current high speed fuse. Protects SCR

P (proportion type phase control): Is suitable
The common resistance wire ,IR tube.
Induction reactance load

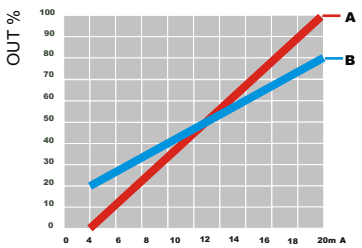
30%OUT	
50%OUT	
90%OUT	

Output state Outputs the stable linearity to be good, the ampere meter does not vibrate, output precision 0.1%, non-wave tilt disturbance phenomenon

Load characteristics Decides the resistance wire filament, the light control, the inductive load, changes the resistance heating element hurriedly, the infrared tube.

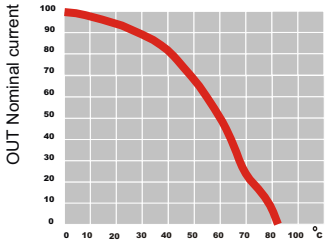
Suitable situation Electric stove, infrared oven, temperature change fast keen equipment.

Output hypothesis



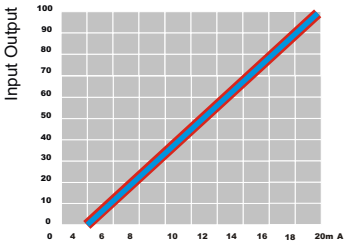
Value of exports limit: The maximum output quantity 0~100%
Change willfully The minimum output 0~30% change willfully

Temperature & Output curve



Between the ambient temperature and
the output current corresponds the change

(Phase) outputs the curve



Output: By input signal %; Corresponding output
The opening control, does not detect the output voltage.

Model recognition

ETSCR — 020

ETSCR-Type

Current20A~60A
020=20A 025=25A 030=30A 040=40A
050=50A 060=60A

E simple type; Product specification size table

Output wave shape

Specification model		Current	Chart	Outward appearance size(mm)			Fixed size (mm)		Kg	Load KW		Locks the Niu strength		Coolant
				Long	Width	High	Long	Width		220V	380V			
1 ⌀ ET6 Mode	ETSCR-020	20A	F1	100	87	100	70	80	0.65	2.5	4	M5	40kgfcm	Natural
	ETSCR-030	30A	F1	100	87	100	70	80	0.65	3.5	6	M5	50kgfcm	
	ETSCR-040	40A	F1	100	87	100	70	80	0.65	4.5	8	M5	50kgfcm	
	ETSCR-050	50A	F1	100	87	100	70	80	0.65	6.5	10	M5	50kgfcm	
	ETSCR-060	60A	F1	100	87	100	70	80	0.65	8.5	12	M5	50kgfcm	

STSCR (compact)

STSCR (phase control) is suitable for: Generally load. Infrared IR tube. Transformer load

Product characteristic

1: Many kinds of input modes. Changes the hypothesis by the hardware. Does not need to replace the type. The use is more convenient

2: Many indicating lamp demonstration input. Output and breakdown news

3: The unusual condition occurs when. Stops the output immediately. Protects internal SCR

4: Outputs stably. The linearity is good. Non-disturbance phenomenon production

5: The kneading board may the positive governing maximum output quantity

6: Many kinds of output pattern type. Echoes the general load control request

(Assignment type zero position output) only suits the general pure resistance silk load

30%OUT

50%OUT

90%OUT

Output state Take the full wave as the unit, the non-half-wave ingredient may reach the maximum power factor, saves the electricity Not to have the wave tilt disturbance; When output the ampere meter has the vibration condition;

Load characteristics Decides the resistance wire filament (not to be possible to use in light control, inductive load, changes resistance heating element hurriedly);

Suitable situation The constant temperature air conditioning, the heat-treatment furnace, the hot oven, mortgages machine;

(Proportion type phase control) each kind Of change load, and general load

30%OUT

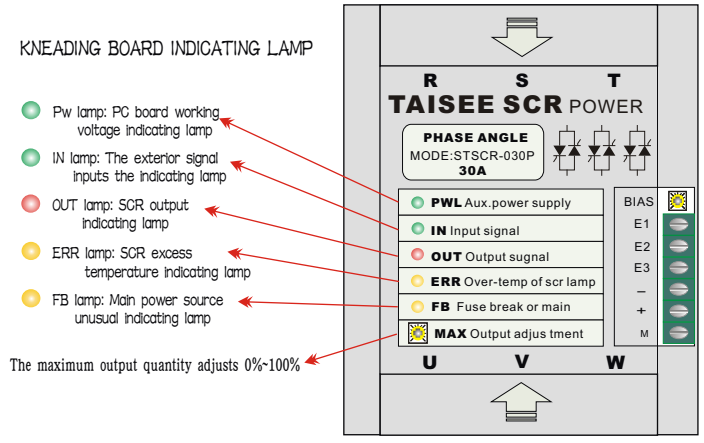
50%OUT

90%OUT

Output state Outputs the stable linearity to be good, the ampere meter does not vibrate, output precision 0.1%, non-wave tilt disturbance phenomenon

Load characteristics Decides the resistance wire filament, the light control, the light control, the inductive load, Changes the Resistance heating element hurriedly, the infrared tube.

Suitable situation Electric stove, infrared oven, temperature Change fast keen equipment.



Model recognition:

Z Zero position cycle control: Generally pure resistance silk load

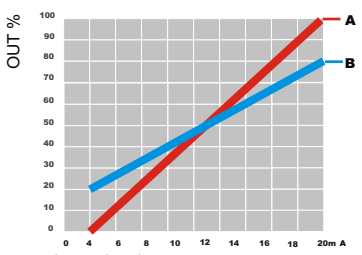
P Phase control: Generally load. Tube. Transformer

Matters needing attention:

SCR is the succeeding in the imperial Civil service examinations thermal element the use environment must be lower than 45℃. Will otherwise create the radiation, bad, will cause the excess temperature To stop the output

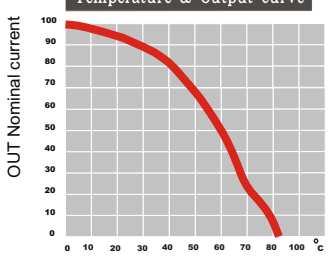
If is unable to improve the ambient temperature: Then SCR must enlarge a time of above power specification

Output hypothesis



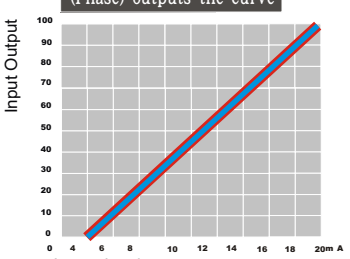
Value of exports limit: The maximum output quantity 0~100% Change willfully The minimum output 0~30% change willfully

Temperature & Output curve



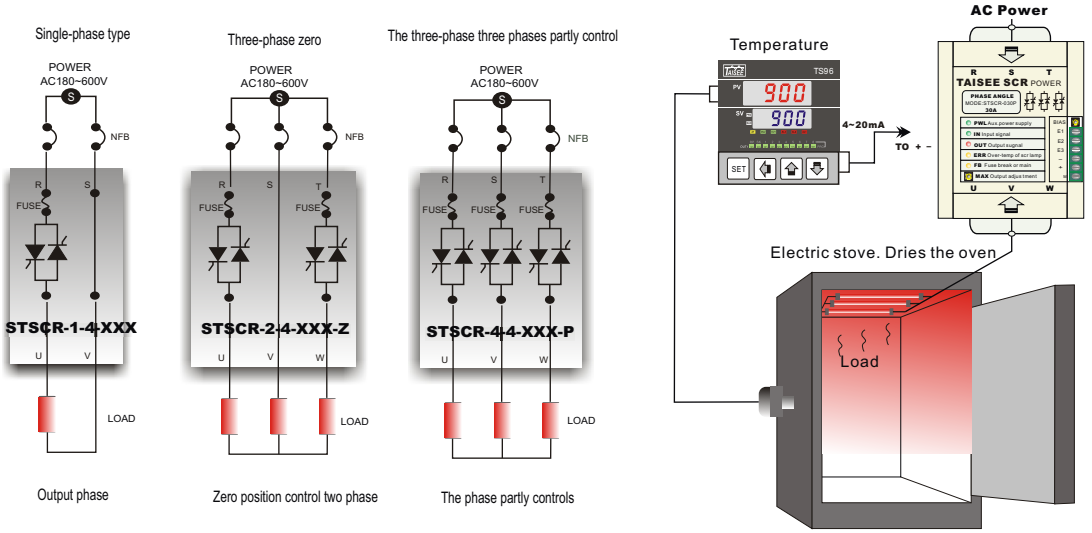
Between the ambient temperature and the output current corresponds the change

(Phase) outputs the curve

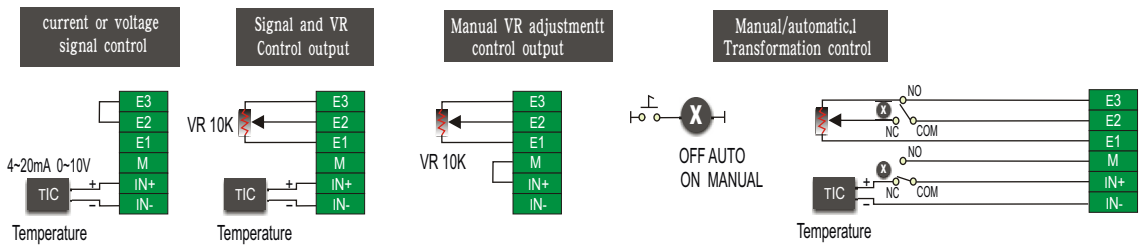


Output: By input signal %; Corresponding output The opening control, does not detect the output voltage.

Main return route wiring way



Control loop wiring pattern



Noten

Before the shaping, please first determine:
Load whether in SCR capacity scope

Computing mode:

(Single-phase): Load (KW)/voltage (V)= ampere (A)*(1.15)= uses SCR ampere (A) elected

(Three-phase): [load (KW)/voltage (V)]/ $\sqrt{3}$ = ampere (A)*(1.15)= uses SCR ampere (A) elected

STSCR – □ – □ – □□□ – □

- Type: STSCR - STSCR機型
- Mode: 1 -Single-phase phase; 2 -Three-phase zero; 4 -Three-phase phase
- Main power: 2--200V~220V; 4--380V~440V
- Current 28A~30A: 028 - 28A; 030 - 30A; 040 - 40A
- Z - Zero output; P - Phase output

Specification model		Current	Chart	Outward appearance size(mm)			Fixed size (mm)		Kg	Load KW		Locks the Niu strength		Coolant
				Long	Width	High	Long	Width		220V	380V			
1 ∅ ET6 Mode	STSCR-1-4-028	28A	F1	135	110	125	95	105	1.55	4.5	6	M5	40kgfcm	Natural Cooling
	STSCR-1-4-030	30A	F1	135	110	150	95	105	1.55	5.5	8	M5	40kgfcm	
	STSCR-1-4-040	40A	F1	135	110	150	95	105	1.55	6.5	9	M5	50kgfcm	
	STSCR-1-4-050	50A	F1	135	110	150	95	105	1.55	8.5	10	M5	50kgfcm	
3 ∅ ET6 Mode	STSCR-4-4-028	28A	F1	135	110	125	95	105	1.8	7.5	9	M5	40kgfcm	
	STSCR-4-4-030	30A	F1	135	110	150	95	105	1.8	8.5	12	M5	40kgfcm	
	STSCR-4-4-040	40A	F2	135	110	150	95	105	2.3	12	18	M5	50kgfcm	Air coling

TSCR (1 phase)

TSCR (phase control) is suitable for: Generally load. Infrared IR tube. Transformer load

F1

F2

Product characteristic

1: Many kinds of input modes. Changes the hypothesis by the hardware. Does not need to replace the type. The use is more convenient

2: Many indicating lamp demonstration input. Output and breakdown news

3: The unusual condition occurs when. Stops the output immediately. Protects internal SCR

4: Outputs stably. The linearity is good. Non-disturbance phenomenon production

5: The kneading board may the positive governing maximum output quantity

6: Many kinds of output pattern type. Echoes the general load control request

P (proportion type phase control): Is suitable The common resistance wire .IR tube. Induction reactance load	
30%OUT	
50%OUT	
90%OUT	

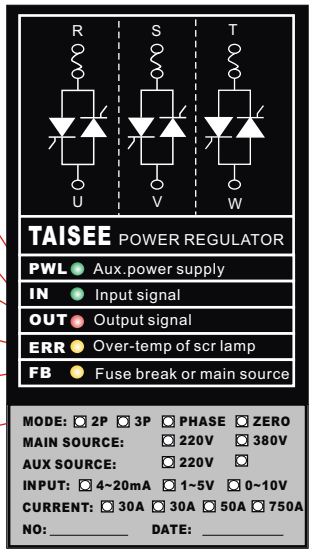
Output state Outputs the stable linearity to be good, the ampere meter does not vibrate, output precision 0.1%, non-wave tilt disturbance phenomenon

Load characteristics Decides the resistance wire filament, the light control, the inductive load, changes the resistance heating element hurriedly, the infrared tube.

Suitable situation Electric stove, infrared oven, temperature change fast keen equipment.

KNEADING BOARD INDICATING LAMP

- Pw lamp: PC board working voltage indicating lamp
- IN lamp: The exterior signal inputs the indicating lamp
- OUT lamp: SCR output indicating lamp
- ERR lamp: SCR excess temperature indicating lamp
- FB lamp: Main power source unusual indicating lamp
- Model specification indication



AC1	AC2	M	+	−	E3	E2	E1

PC BOARD BINDING CLAMP

Model recognition:

Zero position cycle control: Generally pure resistance silk load

Phase control: Generally load. Tube. Transformer

Matters needing attention:

SCR is the succeeding in the imperial Civil service examinations thermal element the use environment must be lower than 45℃. Will otherwise create the radiation, bad, will cause the excess temperature To stop the output

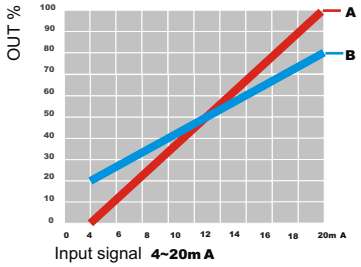
If is unable to improve the ambient temperature: Then SCR must enlarge a time of above power specification

PC BOARD POTENTIOMETER FUNCTION

The BAIS minimum output adjusts 0%~20%

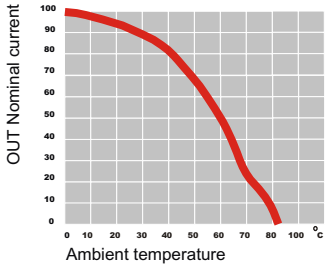
The MAX maximum output quantity adjusts 0%~100%

Output hypothesis



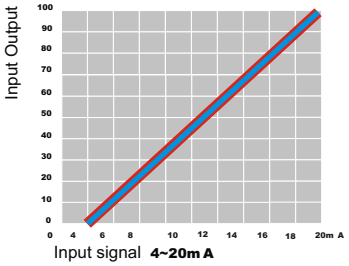
Value of exports limit: The maximum output quantity 0~100% Change willfully The minimum output 0~30% change willfully

Temperature & Output curve



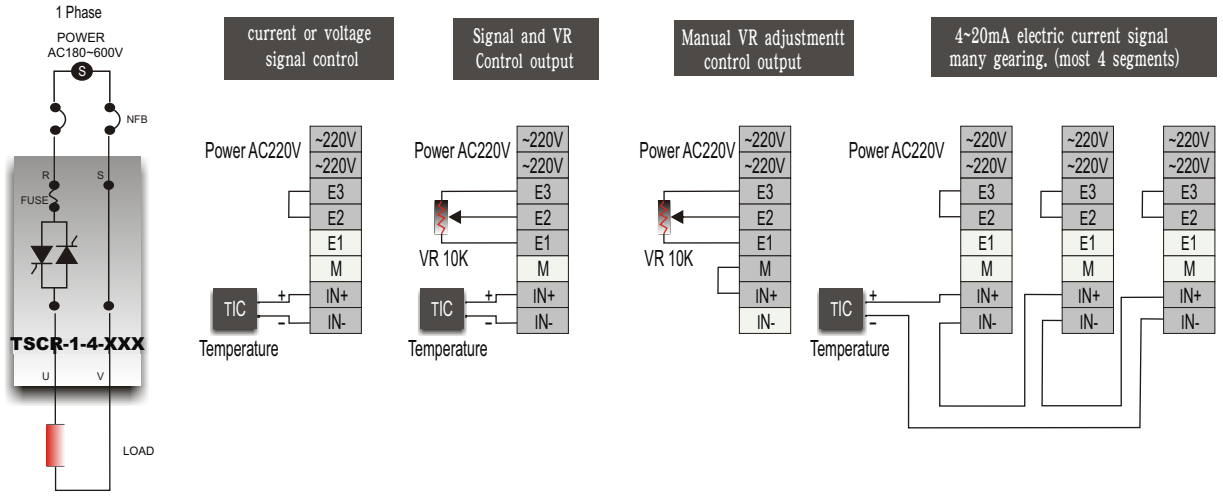
Between the ambient temperature and the output current corresponds the change

(Phase) outputs the curve



Output: By input signal %; Corresponding output The opening control, does not detect the output voltage.

TSCR (1 phase)



Before the shaping, please first determine:
Load whether in SCR capacity scope

Noten

Computing mode:

(Single-phase): Load (KW)/voltage (V)= ampere (A)*(1.15)= uses SCR ampere (A) elected

(Three-phase): [load (KW)/voltage (V)]/ $\sqrt{3}$ = ampere (A)*(1.15)= uses SCR ampere (A) elected

Model recognition

TSCR – □ – □ – □□□ – □

- Type: TSCR - TSCR
- Mode: 1 - 1 Phase
- Main power: 2--200V~220V; 4--380V~440V
- Current 30A~800A: 030 - 30A; 050-50A; 060-60A; 075 - 75A; 100-100A; 125-125A; 150 - 150A; 175-175A; 200-200A; 225 - 225A; 250-250A; 300-300A; 400 - 400A; 500-500A; 800-800A
- P - Phase output

Specification model		Current	Chart	Outward appearance size(mm)			Fixed size (mm)		Kg	Load KW		Locks the Niu strength		Coolant
				Long	Width	High	Long	Width		220V	380V			
1 ø ET6 Mode	TSCR-1-4-030	30A	F1	210	110	165	170	105	1.85	5.5	9	M5	40kgfcm	Natural
	TSCR-1-4-040	40A	F1	210	110	165	170	105	1.85	6.5	10	M5	40kgfcm	
	TSCR-1-4-050	50A	F1	210	110	165	170	105	1.85	8.5	12	M5	50kgfcm	
	TSCR-1-4-060	60A	F1	210	110	165	170	105	1.85	10	15	M5	50kgfcm	
	TSCR-1-4-075	75A	F1	210	110	165	170	105	1.85	14	23	M5	70kgfcm	
	TSCR-1-4-080	80A	F1	210	110	165	170	105	1.85	15	25	M5	75kgfcm	
	TSCR-1-4-100	100A	F2	235	110	165	170	105	2.5	18	30	M5	85kgfcm	Air coling
	TSCR-1-4-125	125A	F2	235	110	165	170	105	2.5	22	36	M5	95kgfcm	
	TSCR-1-4-150	150A	F2	235	110	165	170	105	2.8	26	44	M6	170kgfcm	
	TSCR-1-4-175	175A	F2	235	110	165	170	105	2.8	30	50	M6	200kgfcm	
	TSCR-1-4-200	200A	F2	235	140	185	170	135	3.8	35	60	M10	220kgfcm	
	TSCR-1-4-225	225A	F2	235	140	185	170	135	3.8	39	65	M10	250kgfcm	
	TSCR-1-4-250	250A	F2	235	140	185	170	135	4.5	42	70	M10	250kgfcm	
	TSCR-1-4-300	300A	F2	325	140	185	170	135	4.5	52	86	M10	250kgfcm	
	TSCR-1-4-400	400A	F2	325	140	165	170	135	5.5	70	120	M12	250kgfcm	
	TSCR-1-4-500	500A	F2	325	140	165	170	135	6.5	88	150	M12	250kgfcm	
	TSCR-1-4-800	800A	F2	325	265	165	170	255	9.5	160	290	M14	300kgfcm	
	TSCR-1-4-1000	1000A	F2	325	265	165	170	255	10.5	200	360	M14	350kgfcm	

TSCR (3-phase zero position)

Zero (Controls two types): Is only suitable for the general resistance type filament

Product characteristic

1: Many kinds of input modes, Changes the hypothesis by the hardware, Does not need to replace the type, The use is more convenient

2: Many indicating lamp demonstration input, Output and breakdown news

3: The unusual condition occurs when, Stops the output immediately, Protects internal SCR

4: Outputs stably, The linearity is good, Non-disturbance phenomenon production

5: The kneading board may the positive governing maximum output quantity

6: Many kinds of output pattern type, Echoes the general load control request

(Assignment type zero position output) only suits the general pure resistance silk load	
30%OUT	
50%OUT	
90%OUT	

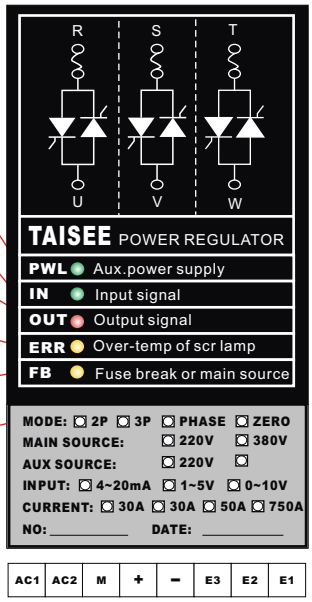
Output state Take the full wave as the unit, the non-half-wave ingredient may reach the maximum power factor, saves the electricity
Not to have the wave tilt disturbance;
When output the ampere meter has the vibration condition;

Load characteristics Decides the resistance wire filament (not to be possible to use in light control, inductive load, changes resistance heating element hurriedly);

Suitable situation The constant temperature air conditioning, the heat-treatment furnace, the hot oven, mortgages machine;

KNEADING BOARD INDICATING LAMP

- Pw lamp: PC board working voltage indicating lamp
- IN lamp: The exterior signal inputs the indicating lamp
- OUT lamp: SCR output indicating lamp
- ERR lamp: SCR excess temperature indicating lamp
- FB lamp: Main power source unusual indicating lamp
- Model specification indication



AC1	AC2	M	+	−	E3	E2	E1

PC BOARD BINDING CLAMP

Model recognition:

Z Zero position cycle control: Generally pure resistance silk load

P Phase control: Generally load. Tube. Transformer

Matters needing attention:

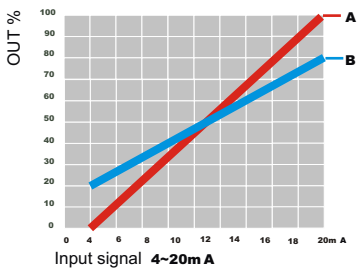
SCR is the succeeding in the imperial Civil service examinations thermal element the use environment must be lower than 45℃. Will otherwise create the radiation, bad, will cause the excess temperature To stop the output

If is unable to improve the ambient temperature: Then SCR must enlarge a time of above power specification

PC BOARD POTENTIOMETER FUNCTION

The MAX maximum output quantity adjusts 0%~100%

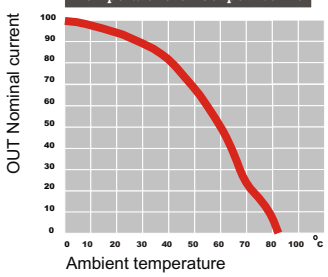
Output hypothesis



Input signal **4~20m A**

Value of exports limit: The maximum output quantity 0~100% Change willfully The minimum output 0~30% change willfully

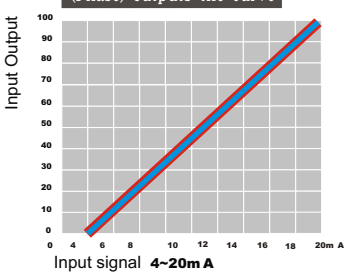
Temperature & Output curve



Ambient temperature

Between the ambient temperature and the output current corresponds the change

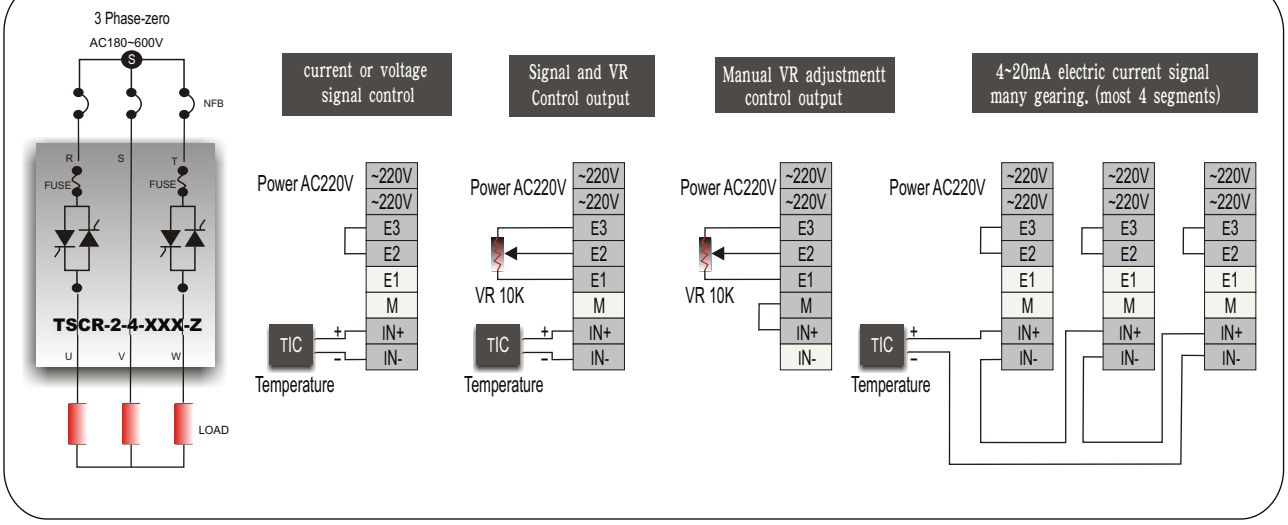
(Phase) outputs the curve



Input signal **4~20m A**

Output: By input signal %; Corresponding output The opening control, does not detect the output voltage.

TSCR (3-phase zero position)



Before the shaping, please first determine:
Load whether in SCR capacity scope

Noten

Computing mode:

(Single-phase): Load (KW)/voltage (V)= ampere (A)*(1.15)= uses SCR ampere (A) elected

(Three-phase): [load (KW)/voltage (V)]/ $\sqrt{3}$ = ampere (A)*(1.15)= uses SCR ampere (A) elected

TSCR – □ – □ – □□□ – □

- Type: TSCR - TSCR
- Mode: 2 - 3-phase zero (controls 2); 3 - 3-phase zero (controls 3)
- Main power: 2--200V~220V; 4--380V~440V
- Current 30A~800A: 030 - 30A; 050-50A; 060-60A; 075 - 75A; 100-100A; 125-125A; 150 - 150A; 175-175A; 200-200A; 225 - 225A; 250-250A; 300-300A; 400 - 400A; 500-500A; 800-800A
- Z - Zero

Specification model		Current	Chart	Outward appearance size(mm)			Fixed size (mm)		Kg	Load KW		Locks the Niu strength		Coolant
				Long	Width	High	Long	Width		220V	380V			
3 ∅ ET6 Mode	TSCR-2-4-030	30A	F1	210	140	185	170	135	2.8	8.5	15	M5	40kgfcm	Natural
	TSCR-2-4-040	40A	F1	250	140	185	170	135	2.8	9.5	20	M5	40kgfcm	
	TSCR-2-4-050	50A	F1	250	140	185	170	135	3.5	14	26	M5	50kgfcm	Air coling
	TSCR-2-4-060	60A	F1	250	140	185	170	135	3.9	16	28	M5	50kgfcm	
	TSCR-2-4-075	75A	F1	250	140	185	170	135	3.9	22	38	M5	70kgfcm	
	TSCR-2-4-080	80A	F1	250	140	185	170	135	3.9	25	41	M5	75kgfcm	
	TSCR-2-4-100	100A	F1	250	140	185	170	135	3.9	32	56	M5	85kgfcm	
	TSCR-2-4-125	125A	F1	290	140	185	170	135	5.1	38	64	M5	95kgfcm	
	TSCR-2-4-150	150A	F1	290	140	185	170	135	5.7	45	75	M6	170kgfcm	
	TSCR-2-4-175	175A	F1	290	140	185	170	135	5.7	53	88	M6	200kgfcm	
	TSCR-2-4-200	200A	F2	250	265	205	170	255	13	60	100	M10	220kgfcm	
	TSCR-2-4-225	225A	F2	250	265	205	170	255	13	68	113	M10	250kgfcm	
	TSCR-2-4-250	250A	F2	290	265	205	170	255	15	80	130	M10	250kgfcm	
	TSCR-2-4-300	300A	F2	290	265	205	170	255	18	89	160	M10	250kgfcm	
	TSCR-2-4-400	400A	F2	330	265	205	170	255	22	120	220	M12	250kgfcm	
	TSCR-2-4-500	500A	F2	330	265	205	170	255	26	150	250	M12	250kgfcm	
	TSCR-2-4-800	800A	F2	330	265	205	170	255	30	250	450	M14	300kgfcm	
	TSCR-2-4-1000	1000A	F2	380	265	205	170	255	32	320	560	M14	350kgfcm	

TSCR (3-phase phase)

TSCR (phase control) is suitable for: Generally load. Infrared IR tube. Transformer load

F1

F2

Product characteristic

1: Many kinds of input modes. Changes the hypothesis by the hardware. Does not need to replace the type. The use is more convenient

2: Many indicating lamp demonstration input. Output and breakdown news

3: The unusual condition occurs when. Stops the output immediately. Protects internal SCR

4: Outputs stably. The linearity is good. Non-disturbance phenomenon production

5: The kneading board may the positive governing maximum output quantity

6: Many kinds of output pattern type. Echoes the general load control request

P (proportion type phase control): Is suitable The common resistance wire .IR tube. Induction reactance load	
30%OUT	
50%OUT	
90%OUT	

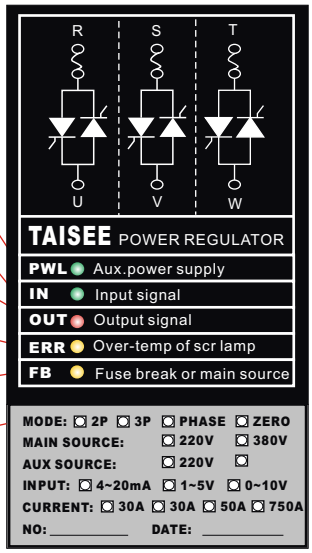
Output state Outputs the stable linearity to be good, the ampere meter does not vibrate, output precision 0.1%, non-wave tilt disturbance phenomenon

Load characteristics Decides the resistance wire filament, the light control, the inductive load, changes the resistance heating element hurriedly, the infrared tube.

Suitable situation Electric stove, infrared oven, temperature change fast keen equipment.

KNEADING BOARD INDICATING LAMP

- Pw lamp: PC board working voltage indicating lamp
- IN lamp: The exterior signal inputs the indicating lamp
- OUT lamp: SCR output indicating lamp
- ERR lamp: SCR excess temperature indicating lamp
- FB lamp: Main power source unusual indicating lamp
- Model specification indication



AC1	AC2	M	+	−	E3	E2	E1

PC BOARD BINDING CLAMP

Model recognition:

Zero position cycle control: Generally pure resistance silk load

Phase control: Generally load. Tube. Transformer

Matters needing attention:

SCR is the succeeding in the imperial Civil service examinations thermal element the use environment must be lower than 45℃. Will otherwise create the radiation, bad, will cause the excess temperature To stop the output

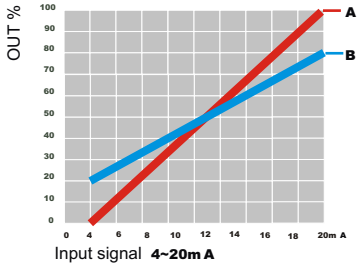
If is unable to improve the ambient temperature: Then SCR must enlarge a time of above power specification

PC BOARD POTENTIOMETER FUNCTION

The BAIS minimum output adjusts 0%~20%

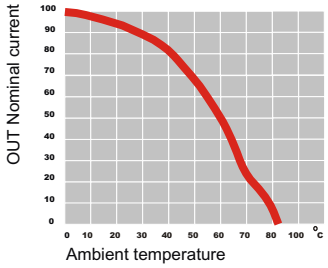
The MAX maximum output quantity adjusts 0%~100%

Output hypothesis



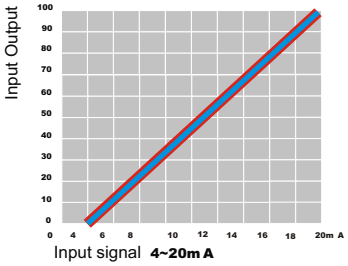
Value of exports limit: The maximum output quantity 0~100% Change willfully The minimum output 0~30% change willfully

Temperature & Output curve



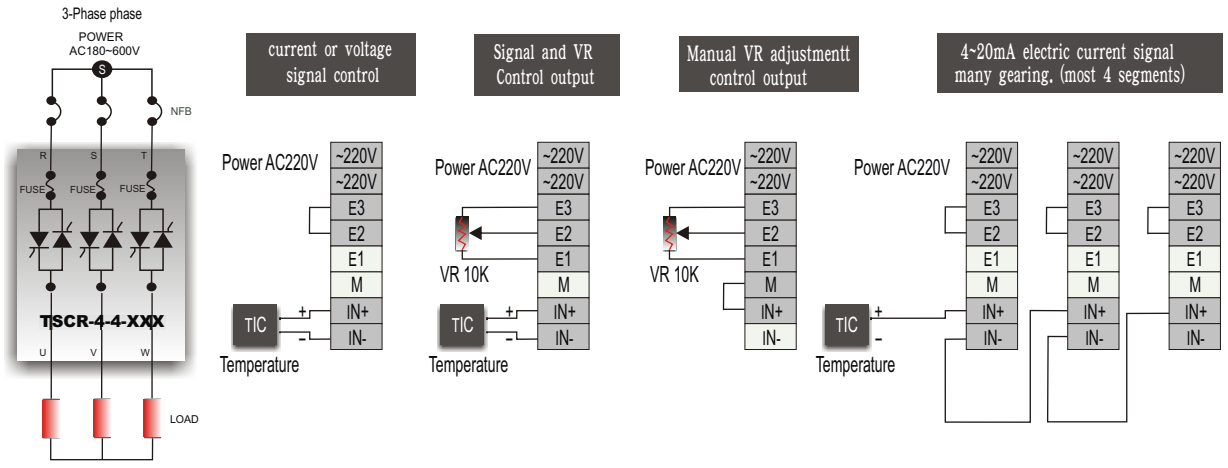
Between the ambient temperature and the output current corresponds the change

(Phase) outputs the curve



Output: By input signal %; Corresponding output The opening control, does not detect the output voltage.

TSCR (3-phase phase)



Before the shaping, please first determine:
Load whether in SCR capacity scope

Noten

Computing mode:

(Single-phase): Load (KW)/voltage (V)= ampere (A)*(1.15)= uses SCR ampere (A) elected

(Three-phase): [load (KW)/voltage (V)]/ $\sqrt{3}$ = ampere (A)*(1.15)= uses SCR ampere (A) elected

TSCR - □ - □ - □□□ - □

- Type: TSCR - TSCR
- Mode: 4 - 3-Phase
- Main power: 2--200V~220V; 4--380V~440V
- Current 30A~800A:
  - 030 - 30A; 050- 50A; 060- 60A
  - 075 - 75A; 100-100A; 125-125A
  - 150 - 150A; 175-175A; 200-200A
  - 225 - 225A; 250-250A; 300-300A
  - 400 - 400A; 500-500A; 800-800A
- P - Phase

Specification model		Current	Chart	Outward appearance size(mm)			Fixed size (mm)		Kg	Load KW		Locks the Niu strength		Coolant
				Long	Width	High	Long	Width		220V	380V			
3 ⌀ ET6 Mode	TSCR-4-4-030	30A	F1	210	140	185	170	135	2.8	8.5	15	M5	40kgfcm	Natural
	TSCR-4-4-040	40A	F1	250	140	185	170	135	2.8	9.5	20	M5	40kgfcm	
	TSCR-4-4-050	50A	F1	250	140	185	170	135	3.5	14	26	M5	50kgfcm	Air coling
	TSCR-4-4-060	60A	F1	250	140	185	170	135	3.9	16	28	M5	50kgfcm	
	TSCR-4-4-075	75A	F1	250	140	185	170	135	3.9	22	38	M5	70kgfcm	
	TSCR-4-4-080	80A	F1	250	140	185	170	135	3.9	25	41	M5	75kgfcm	
	TSCR-4-4-100	100A	F1	250	140	185	170	135	3.9	32	56	M5	85kgfcm	
	TSCR-4-4-125	125A	F1	290	140	185	170	135	5.1	38	64	M5	95kgfcm	
	TSCR-4-4-150	150A	F1	290	140	185	170	135	5.7	45	75	M6	170kgfcm	
	TSCR-4-4-175	175A	F1	290	140	185	170	135	5.7	53	88	M6	200kgfcm	
	TSCR-4-4-200	200A	F2	250	440	205	170	430	13	60	100	M10	220kgfcm	
	TSCR-4-4-225	225A	F2	250	440	205	170	430	13	68	113	M10	250kgfcm	
	TSCR-4-4-250	250A	F2	290	440	205	170	430	15	80	130	M10	250kgfcm	
	TSCR-4-4-300	300A	F2	290	440	205	170	430	18	89	160	M10	250kgfcm	
	TSCR-4-4-400	400A	F2	330	440	205	170	430	22	120	220	M12	250kgfcm	
	TSCR-4-4-500	500A	F2	330	440	205	170	430	26	150	250	M12	250kgfcm	
	TSCR-4-4-800	800A	F2	330	440	205	170	430	30	250	450	M14	300kgfcm	
	TSCR-4-4-1000	1000A	F2	380	440	205	170	430	32	320	560	M14	350kgfcm	

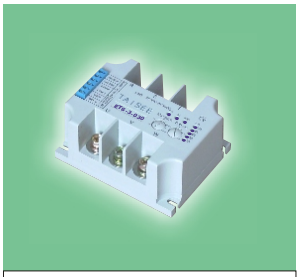
automation controlling element

Provides the high quality automation controlling element

High power SSR. torque motor velometer. Motor soft starter

Card type number position control list. Temperature controller. Counter. Voltmeter. Ampere meter. Ratemeter. Signal translation table

Box former several switches. Temperature switch. Voltage commutator Rotational speed pressure signal transformation



SSR

Current 20A~800A

velometer

Load 4Kw~380Kw

Soft starter

Load 4Kw~380Kw

temperature

Six figures setting

Voltmeter
Ampere meter

Warning setting

Counter

Multistage output

Ratemeter

Multistage output

Frequency Switch

10z~10Kz

Signal Switch

Transformation

Temperature Switch

K.PT100.J.R.S.

Signal Receiver

Meter/yard

ETSSR (high power SSR)

ETSSR (single-phase/three-phase) is suitable for Generally pure resistance silk load (20A~40A)

產品特點

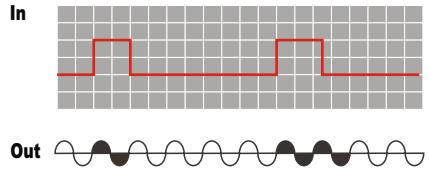
1: Input signal DC10~32V: Main power source AC85~480V

2: Kneading board many indicating lamp demonstration input, Output and breakdown news

3: may establish the soft start function

4: Uses the SCR part, Bears the high pressure and The high electric current (non-general SSR may ratio)

5: Uses covers the separation formula design Up and down, May service reduces the customer cost



Output state Take the full wave as the unit, the non-half-wave ingredient may reach the maximum power factor, saves the electricity
Not to have the wave tilt disturbance;
When output the ampere meter has the vibration condition;

Load characteristics Decides the resistance wire filament (not to be possible to use in light control, inductive load, changes resistance heating element hurriedly);

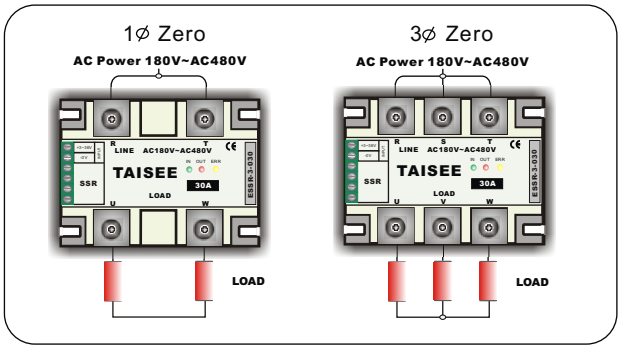
Suitable situation The constant temperature air conditioning, the heat-treatment furnace, the hot oven, mortgages machine;

Condition indicating lamp

IN
IN lamp: The exterior signal inputs the indicating lamp: (inputs when 10~32V lamp bright)

OUT
OUT lamp: SCR output indicating lamp: (in output lamp bright)

ERR
ERR lamp: SCR excess temperature indicating lamp: : (radiation temperature surpasses when 85 degrees bright)



Model recognition

ETSSR – 1 – 025

ETSSR-Type

1- 1 Phase
3- 3 PHASE

Currnet
020--20A 025--25A 030--30A 040--40A

E simple type; Product specification size table

Specification model		Current	Chart	Outward appearance size(mm)			Fixed size (mm)		Kg	Load KW		Locks the Niu strength		Coolant
				Long	Width	High	Long	Width		220V	380V			
1⌀ ET6 Mode	ET6-1-025	25A	F1	82	105	35	66	99	0.5	5.5	9	M5	40kgfcm	Natural Cooling
	ET6-1-030	30A	F1	82	105	35	66	99	0.5	6.5	10	M5	50kgfcm	
	ET6-1-040	40A	F1	82	105	35	66	99	0.5	8.5	12	M5	50kgfcm	
3⌀ ET6 Mode	ET6-3-025	25A	F2	82	105	35	66	99	0.5	6	9	M5	40kgfcm	
	ET6-3-030	30A	F2	82	105	35	66	99	0.5	8.5	12	M5	50kgfcm	
	ET6-3-040	40A	F2	82	105	35	66	99	0.5	10	15	M5	50kgfcm	Air coling

TSSR (high power SSR)

ETSSR (single-phase/three-phase) is suitable for Generally pure resistance silk load (50A~100A)

產品特點

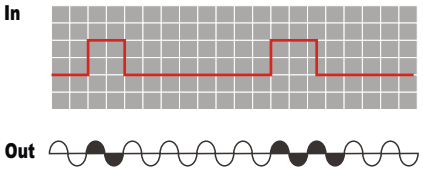
1: Input signal DC10~32V: Main power source AC85~480V

2: Kneading board many indicating lamp demonstration input, Output and breakdown news

3: may establish the soft start function

4: Uses the SCR part, Bears the high pressure and The high electric current (non-general SSR may ratio)

5: Uses covers the separation formula design Up and down, May service reduces the customer cost



Output state Take the full wave as the unit, the non-half-wave ingredient may reach the maximum power factor, saves the electricity Not to have the wave tilt disturbance; When output the ampere meter has the vibration condition;

Load characteristics Decides the resistance wire filament (not to be possible to use in light control, inductive load, changes resistance heating element hurriedly);

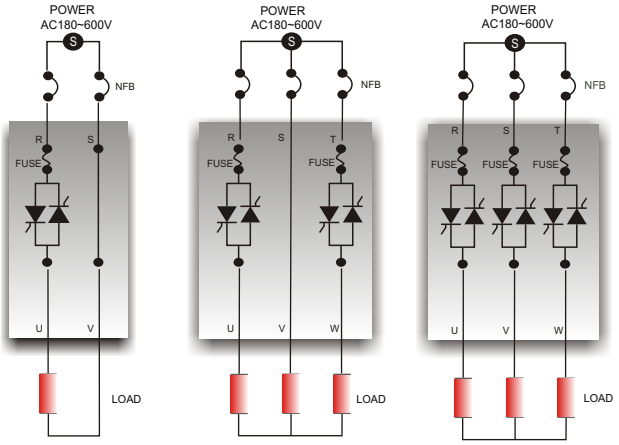
Suitable situation The constant temperature air conditioning, the heat-treatment furnace, the hot oven, mortgages machine;

Condition indicating lamp

IN
IN lamp: The exterior signal inputs the indicating lamp: (inputs when 10~32V lamp bright)

OUT
OUT lamp: SCR output indicating lamp: (in output lamp bright)

ERR
ERR lamp: SCR excess temperature indicating lamp: : (radiation temperature surpasses when 85 degrees bright)



Model recognition

TSSR– 1– 050

ETSSR-Type

1- 1 Phase
3- 3 PHASE

Currnet
050--50A 075--75A 100--100A 125--125A
150--150A 175--175A 225--225A 300--300A
400--400A 500--500A

Product specification size table

Specification model		Current	Chart	Outward appearance size(mm)			Fixed size (mm)		Kg	Load KW		Locks the Niu strength		Coolant
				Long	Width	High	Long	Width		220V	380V			
1 ⌀ ET6 Mode	TSSR-1-050	50A	F1	210	110	165	170	108	2.5	8.5	13	M6	50kgfcm	Natural Cooling
	TSSR-1-075	75A	F1	210	110	165	170	108	2.5	13.5	23.5	M6	70kgfcm	
	TSSR-1-100	100A	F1	250	110	165	170	108	3.0	18	31.5	M6	85kgfcm	
3 ⌀ ET6 Mode	TSSR-3-050	50A	F2	250	140	165	170	132	3.8	15.5	26	M6	50kgfcm	Air coling
	TSSR-3-075	75A	F2	250	140	165	170	132	3.8	23.3	40	M6	70kgfcm	
	TSSR-3-100	100A	F2	250	140	165	170	132	3.8	31	53	M6	85kgfcm	

M6 series (motor)soft starter

M6-Soft is suitable for: Three-phase motor (4KW~380KW)

Product characteristic

1: May momentarily (start/stop). Non-time interval start number of times question

2: May establish the energy conservation pattern. Saves energy 80%~95% (to regard load characteristics decision)

3: The unusual condition occurs when. Stops the output immediately. T Protection internal component

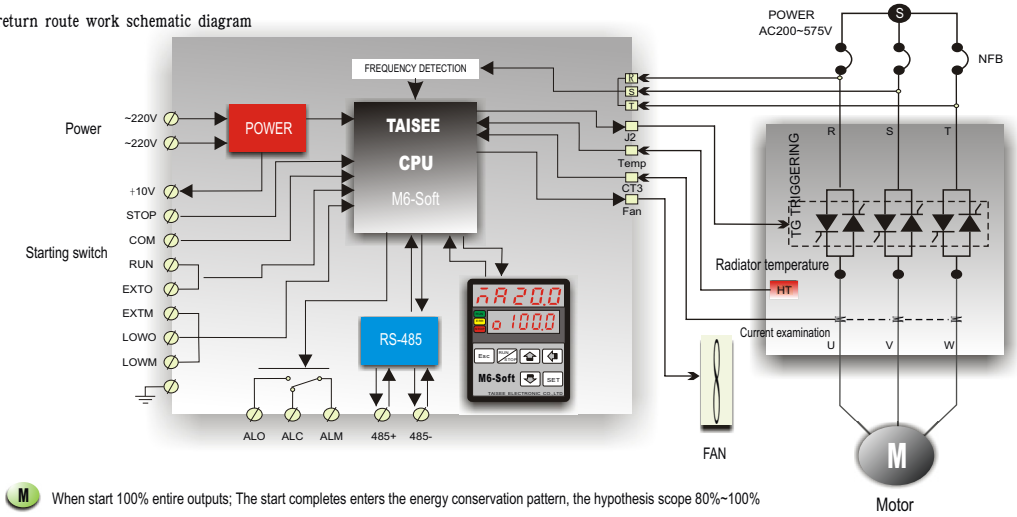
4: In the trigger voltage 30%~70% scopes may establish

5: Uses the software hypothesis pattern. Precision 0.1% start smooth smooth

6: Many kinds of start/stop pattern. Suits each kind of load characteristics

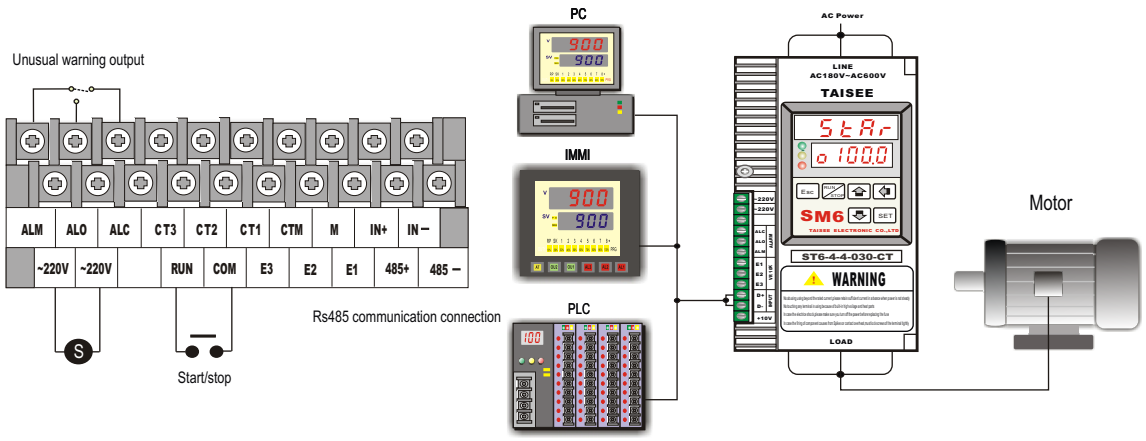
7: Smooth start/stop. Eliminates the gravitational effect and the mechanical inertia completely

Internal return route work schematic diagram



M When start 100% entire outputs; The start completes enters the energy conservation pattern, the hypothesis scope 80%~100%

The Modbus485 communication contact surface, most may connect 32 SCR, most long distance 1200M



M6 series (motor)soft starter

Motor soft starter

Specialized design. Brand-new development. Multi-purpose protections. Provides high quality [motor soft starter]:

(1). The substitution (voltage dropping) controls, the smooth start/stop, is the motor soft starter first choice

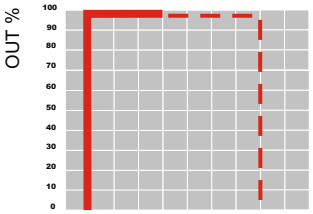
(2). Crosses the electric current detection protection, when the over current reduces the output to cause the equipment not easy breakdown automatically

(3). May establish exceptionally occurs time. Stops the output immediately, the screen demonstration unusual reason, the overhaul is easy

(4). .RS485 communication function, most 32 at the same time segments

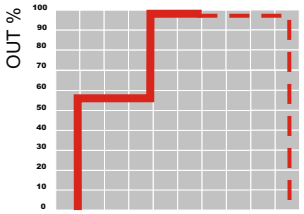
(5). may choose and match the external card type, the operation monitoring is more convenient

Line start



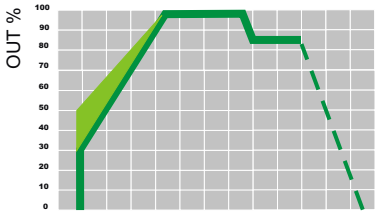
When start: Produces the big electric Current and the big torsion:
When stop: Has the gravitational effect

Voltage dropping start



When start: Has slightly reduces the big electric current and the big torsiont
:When stop has the gravitational effect

Soft start



When start: Can eliminate the big electric current and the big torsion phenomenon, stops when Eliminates the inertial effect completely

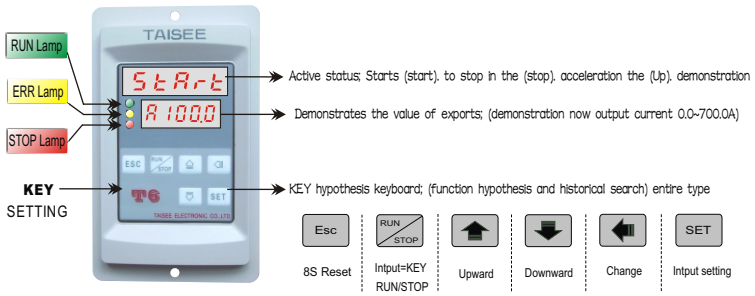
M6-SOFT SOFT STARTER SPECIFICATION MODEL

M TYPE

Mode	Motor (KW)			Type size L*W*H	fuse specification
	220V	380V	480V		660~800V
M6-007	4KW	7.5KW	11KW	180*110*145	63A
M6-015	7.5KW	15KW	18.5KW	250*140*200	100A
M6-022	15KW	22KW	25KW	254*110*200	160A
M6-030	18.5KW	30KW	37KW	300*140*200	200A
M6-037	22KW	37KW	45KW	300*140*200	250A
M6-045	25KW	45KW	55KW	300*140*200	315A
M6-055	30KW	55KW	75KW	335*265*235	350A
M6-075	37KW	75KW	90KW	335*265*235	400A
M6-090	45KW	90KW	110KW	335*265*235	450A
M6-110	55KW	110KW	132KW	335*265*235	630A
M6-132	75KW	132KW	160KW	335*265*235	650A
M6-160	90KW	160KW	200KW	335*265*235	700A
M6-210	115KW	210KW	260KW	335*440*235	1000A
M6-260	135KW	260KW	330KW	335*440*235	1350A
M6-380	180KW	380KW	480KW	335*440*235	1800A

M6 series (motor)soft starter

Keyboard demonstration. The operating function contact surface (may select and purchase external type operation kneading board)

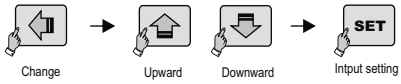


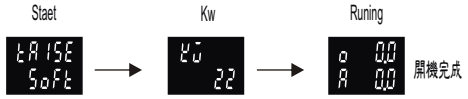
Breakdown demonstration picture explanation

ERROR POWER (not three-phase main power source)
ERROR R-PH (main power source R lacks)
ERROR S-PH (main power source S lacks)
ERROR T-PH (main power source T lacks)
ERROR TEMP (radiator overheated) radiates bad Inspection radiation ventilator
ERROR OC (overload) motor load perhaps short circuit
ERROR ERROR (The CPU breakdown) the internal breakdown, is unable to revolve

RUN Start lamp ERR Error lamp STOP Stop lamp

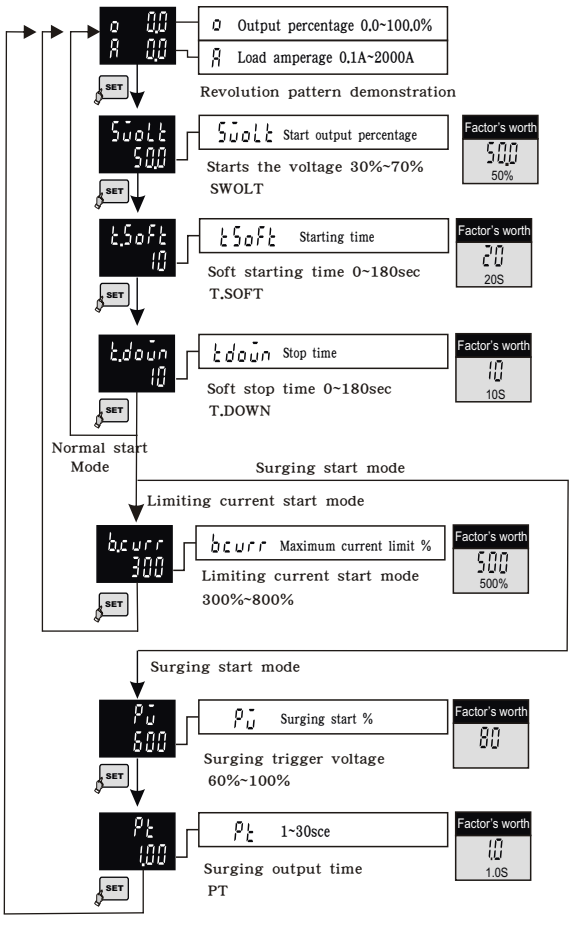
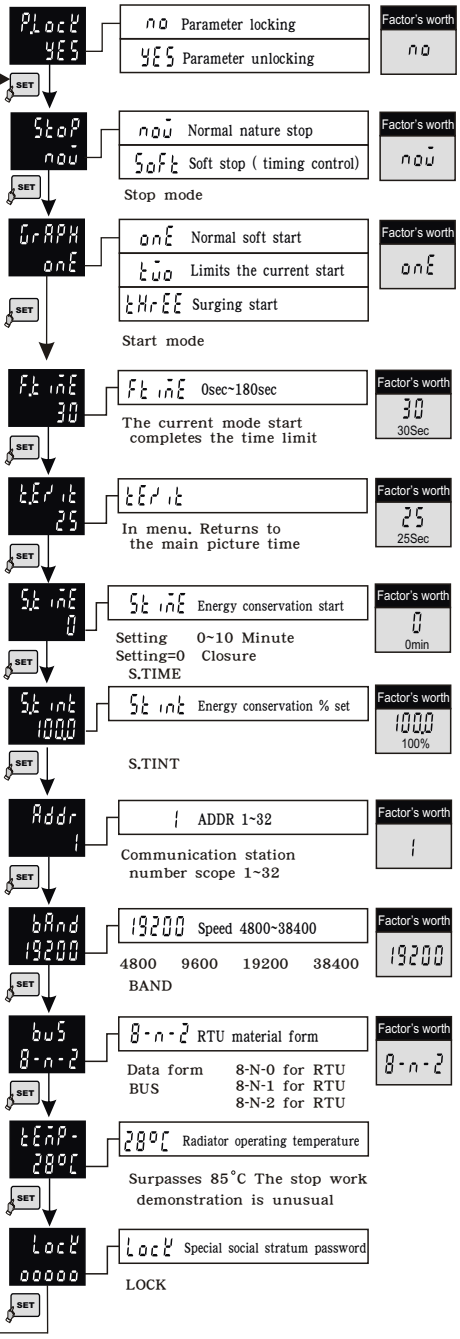
Parameter hypothesis way





TAISEE SOFT LOAD 7~700KW

User operation social stratum



Holding SET 3 seconds enter LEVEL1