28A~1.200A

T7-SCR

Function Unlimited .. more than imagine ..

Product Features: The new modular design meet: IP protection standards CE certification. RoHS specifications

Rich in unusual display. Immediately stop alarm output function output

- Protective cover to protect the input power supply to prevent electrical shock hazard
- Power input protection built high-Fuse internal components
- First software to set input and output control mode
  Input: temperature signal: K.S.J.B.E.T.F.PT100
  Analog signal: 0 ~ 20mA.4 ~ 20mA 1 ~ 5V 0 ~ 10V
- Output mode: (adjust reactive power) (adjusted voltage) (current limit) (limit voltage)
- 32Bit CPU program control precision of 0.01%
- Temperature protection test. Over-temperature alarm immediately. Stop output
- Rs485 communications module. Data Access
- Output (current voltage) monitoring
- I / O Control Terminal
- Protective cover to protect against output short circuit dangerous to touch
- Intelligent cooling fan control

Side-face cover design wiring is easier to maintain. IP protection standards in line with

PCB voltage AC80V ~ 265V

PID temperature control function

Control panel : Software features all-digital set

(PID temperature control) Auto-tuning function

1.shows the amount of current input signal

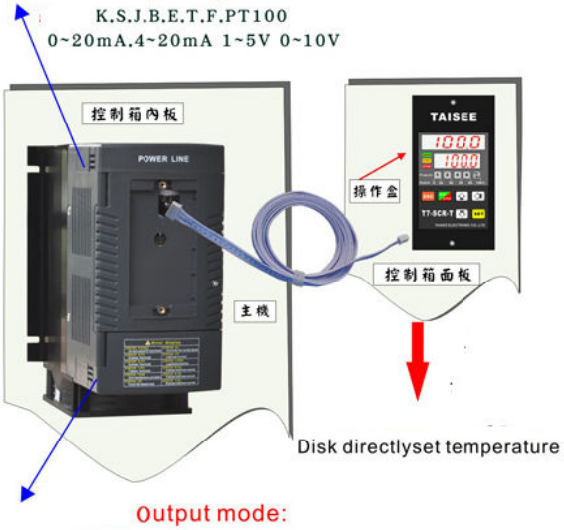
2.shows output %

4.shows the output voltage and current

3.20 kinds of warning is displayed

Input signal:

K.S.J.B.E.T.F.PT100
0~20mA.4~20mA 1~5V 0~10V



Disk directlyset temperature

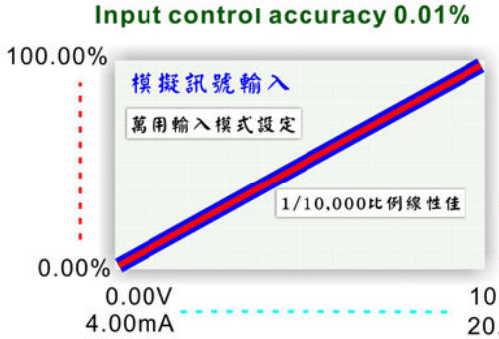
Output mode:

Zero/Phase/current limited/constant current voltage limited/constant voltage/current voltage control

Limited kw / constant kw / DC output / SSR

0.01% of high-precision .32-bit CPU program control

Input control accuracy 0.01%

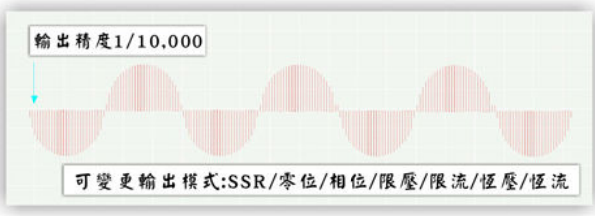


Input signal

Input accuracy

AC12V~660V

Output accuracy 0.01%

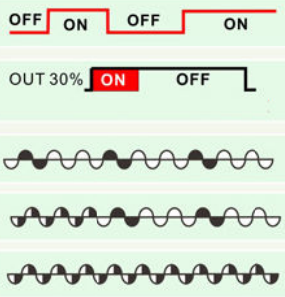


Each waveform 1/10, 000 output phase angle. Achieve precision control requirements

Temperature line input (detection accuracy 0.1°C)

K	B
PT100	E
J	T
R	F
S	

Output mode



Solid state relay mode	控制速度0.01秒 Control the speed of 0.01 seconds
Fixed time zero to start	控制精度1/100 Control accuracy of 1/100
Periodicity waveform	控制精度1/1000 Control accuracy of 1/1000
Phase shift	控制精度1/10,000 Control accuracy of 1/1000
Phase shift	控制精度1/10,000 Control accuracy of 1/1000

All-digital mode of operation. All the features of a touch can be

Shows input value. Each class injunction and alarm content

PV 100.0 Test (input) value is displayed

SV 100.0 Set (output) value is displayed

1 2 4 8 10 AT — 0 20 40 60 80 100% — Output% lamp

RUN — RUN Starts up indicating lamp

ERR — ERR Alarm indicating lamp

STOP — STOP Stops indicating lamp

Move key

Numerical value increases:

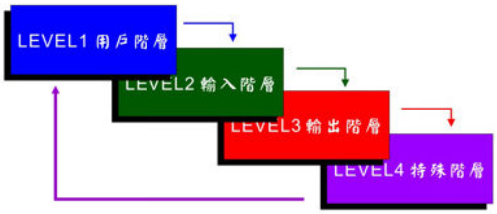
Numerical value minishes:

SET — Enter

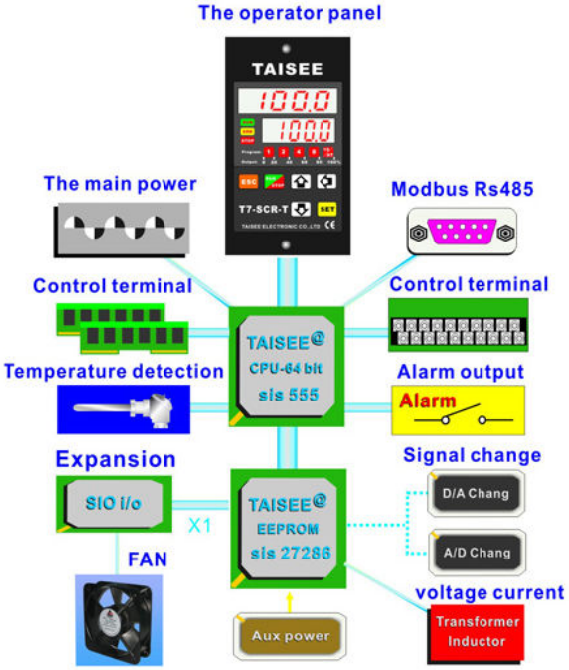
RUN STOP — Manual mode: Startup/ Stop

ESC — Alarm status instantly read. Escorts

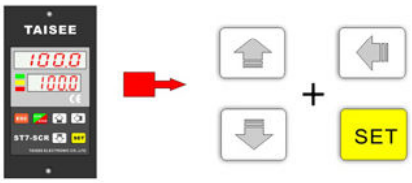
Class parameter setting functions



Pc board advanced modular design

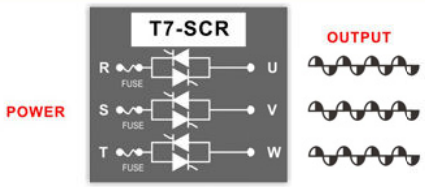


All parameters back to factory settings



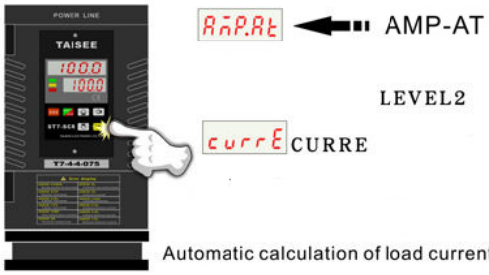
All parameter regress（of products）leave the factory Chih

3ø Output adjustment



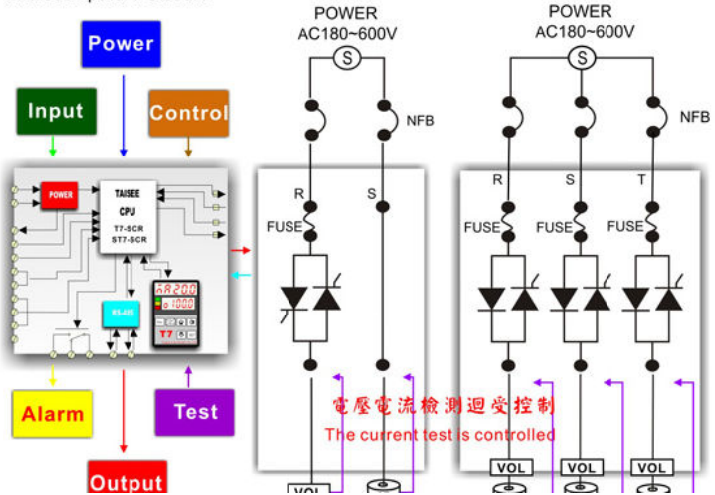
U V W output independent adjustment

Load amps. AUTO-tuning



Automatic calculation of load current

Microcomputer PC board



Special function

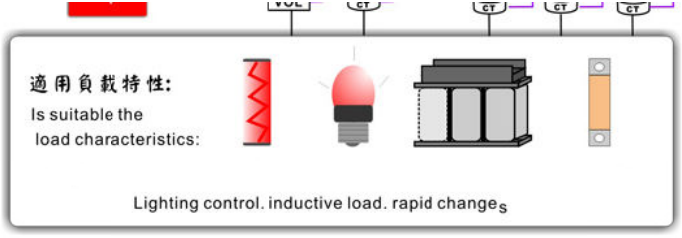
T7 type: Contains the following all output pattern. May change the output mode by the software

1.(full-wave control/half-wave control) chooses

2.(zero position/phase/limits electric current/to limit voltage/constant current/ constant voltage/to limit voltage constant current/ to limit electric current constant voltage)

Noten

Load Kw shaping computing mode:



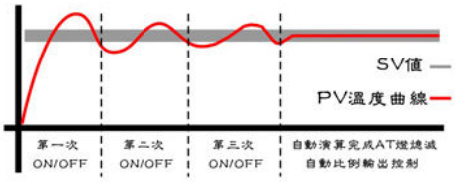
(1-phase): Load (KW)/voltage (V)= ampere (A)*(1.15)= uses SCR ampere (A) elected

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

Transformer load. Selects the SCR nominal current to enlarge 30%

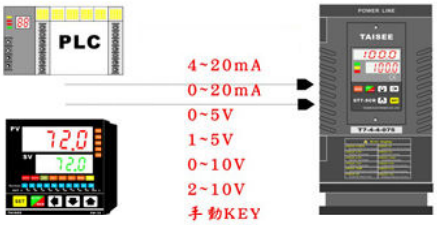
Capacitor load. Selects the SCR nominal current to enlarge 80%

Temperature Auto-tuning PID



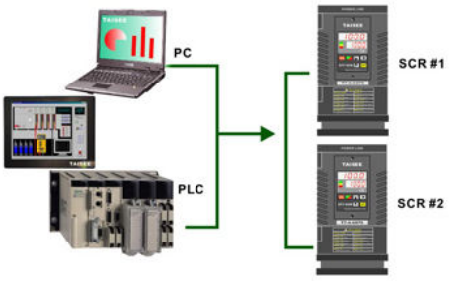
Achieves controls the warm effect best

Can receive various control signals

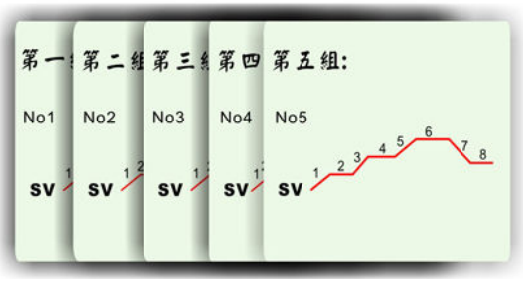


Modbus Rs485

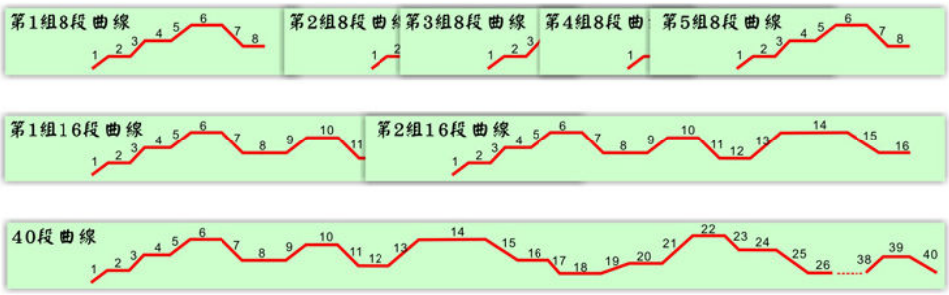
Communication control function



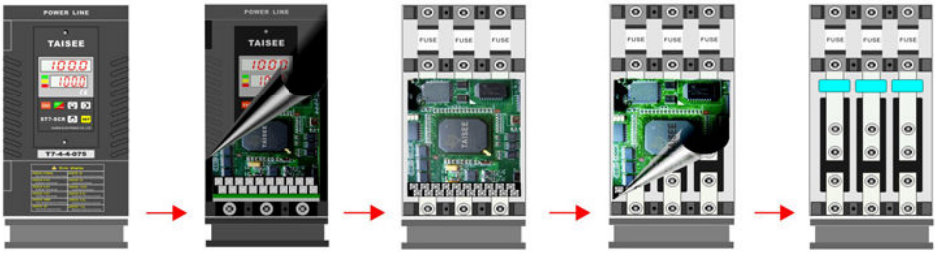
5 groups may the program output plan



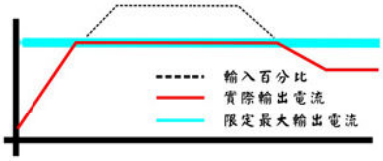
5 group of each 8 sections may establish the elevation of temperature. Holds warm. The temperature decrease curve
5 groups connect the single unit to use the altogether 40 sections to be possible to establish the temperature curve



New modular combinations designed to show unprecedented quality



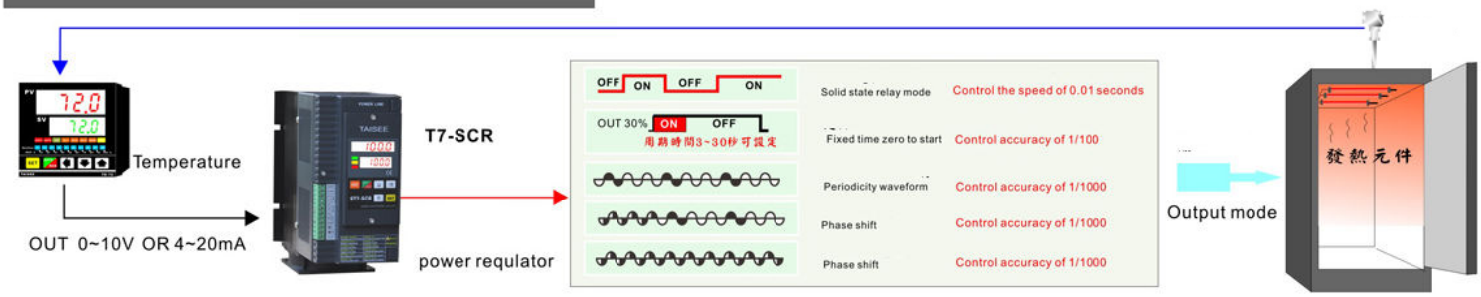
Programmed limit current and voltage



Constant voltage and current output function:
Control accuracy 1%

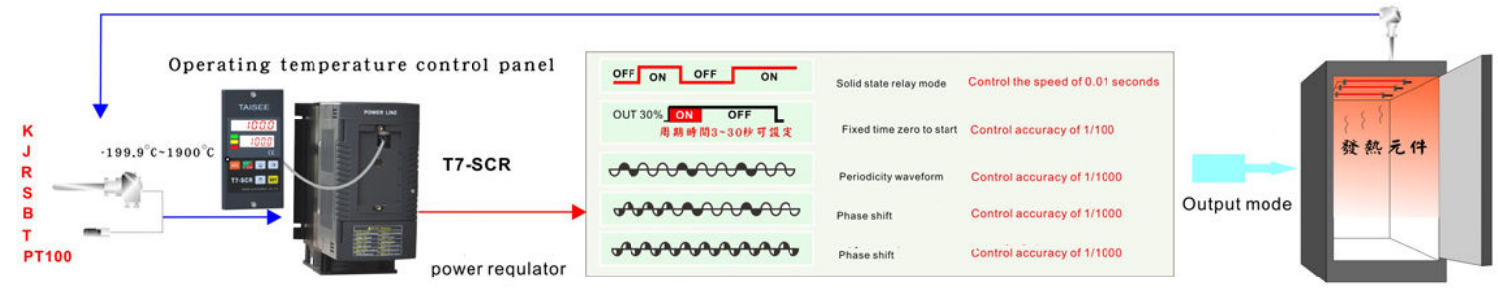
Offers a variety of output modes to change the settings. for a variety of load characteristics

Thermostat control mode

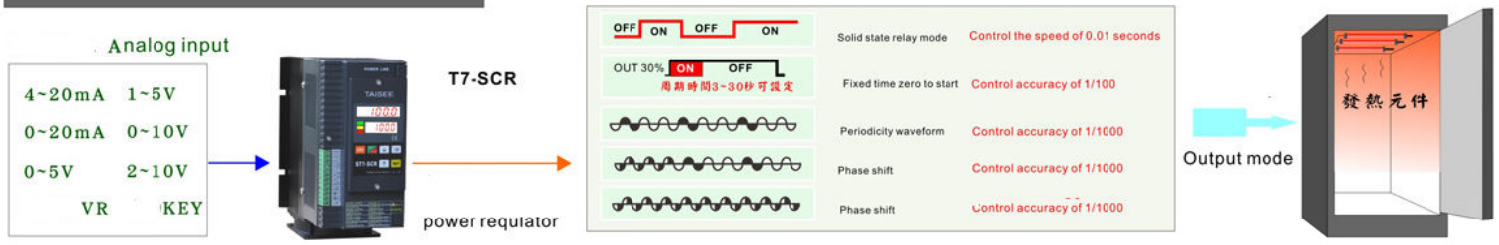


Includes temperature control mode

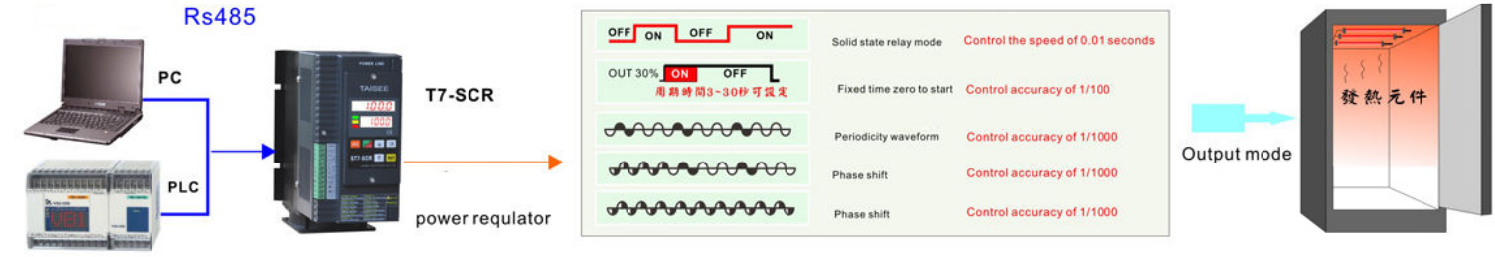
Operating temperature control mode



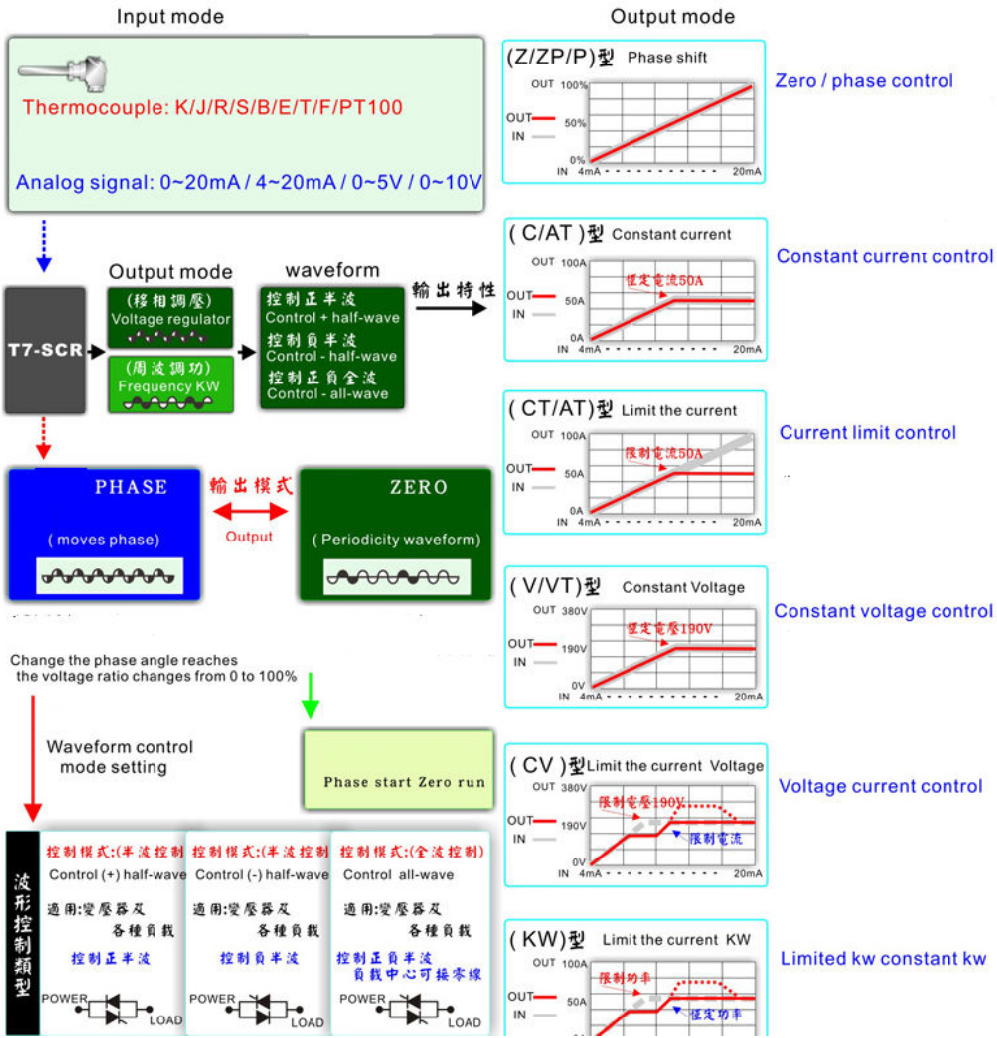
Analog input mode



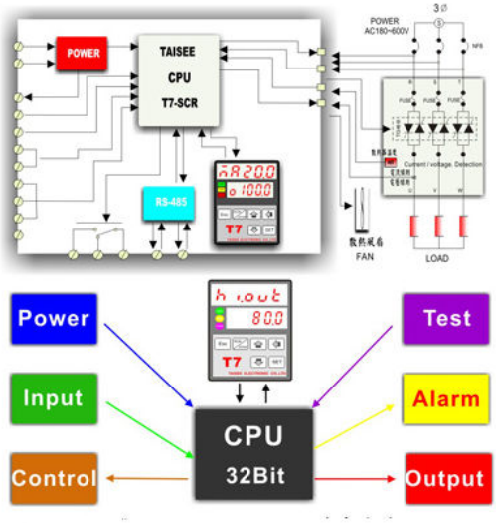
Communication control mode



11 output mode. for a variety of load characteristics



32Bit CPU control precision to 0.01%

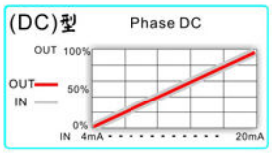


Digital modular design to enhance the precision values

Alarm message show

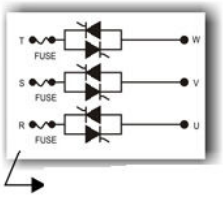
ERROR R-OL	ERROR POWER	ERROR T-PH	ERROR OE
ERROR S-OL	ERROR R-PH	ERROR TEMP	ERROR OL
ERROR T-OL	ERROR S-PH	ERROR LOAD	ERROR OC

Input voltage range suitable for use around the world



DC O output control

Main power
AC85V~600V

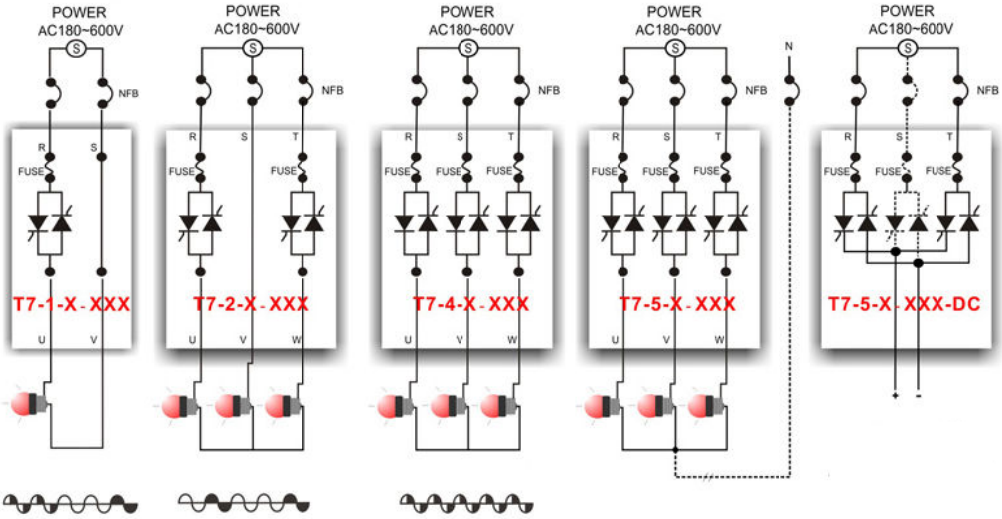


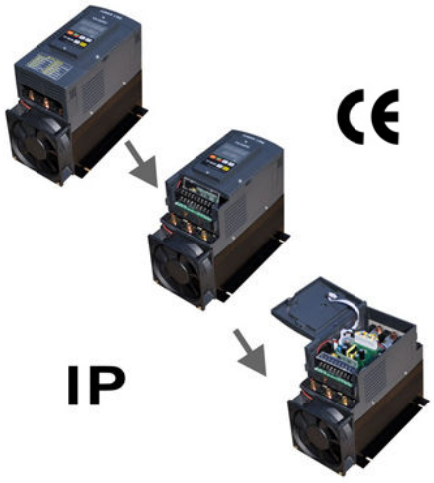
LOAD

PCB voltage AC80V ~ 265V

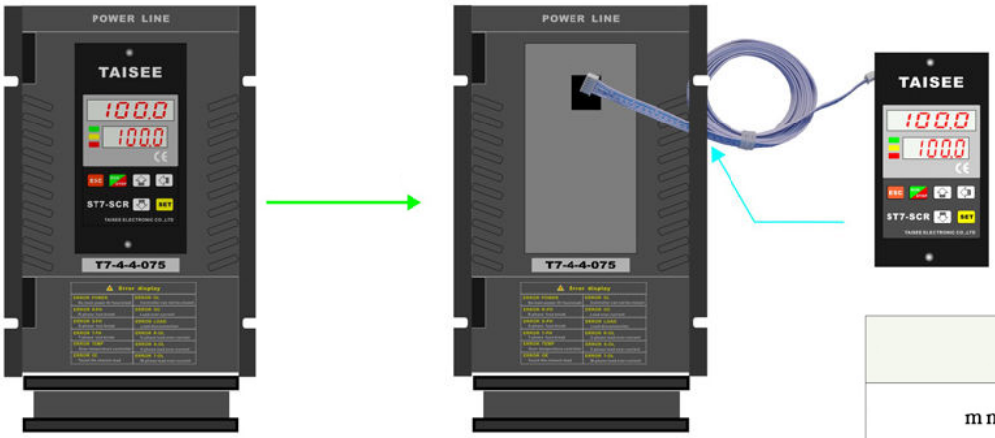
Out mode:(Zero)(Phase)(Limits voltage)(Limits current)(Phase starts zero Running)(DC out)

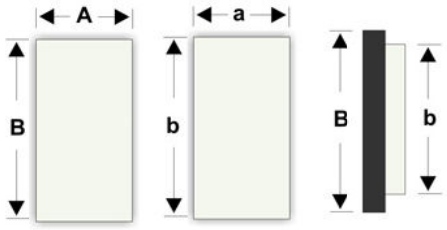
First side-panel. Easy to maintain
Meet IP protection





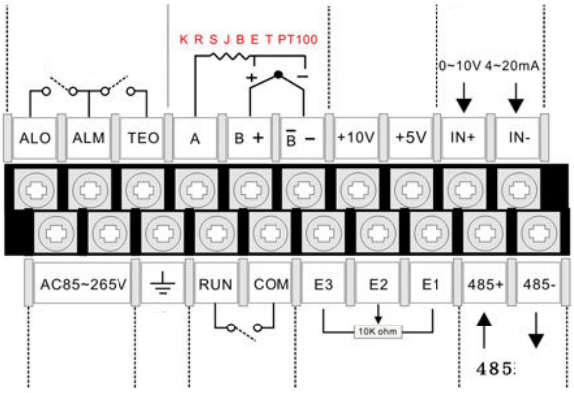
New design. A substantial increase in product-value



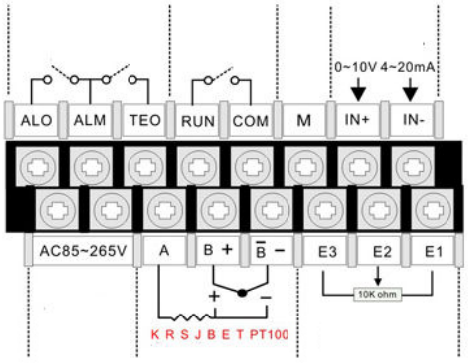


	A	B	a	b
mm	62.5	120	58.5	101

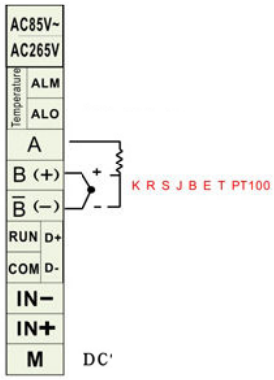
T7 three-phase models of the PC board terminals



T7 single-camera-type PC board terminals



St7 type PC board terminals



Function \ Model	Z Zero output	(P)(ZP) Phase output	CT Current limit	C Constant current	Kw Constant Kw	V Constant voltage	AT all control	CV All-function	DC DC-Output
Input 0~20mA 1~5V 4~20mA 0~10V KEY	●	●	●	●	●	●	●	●	●

PID temperature control function	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Output OUT 30% ON OFF	●	●	●	●	●	●	●	●	●
Output (Phase) to adjust the voltage	●	●	●	●	●	●	●	●	●
Output Maximum current limit	Optional	Optional	●	●	●	—	●	●	Optional
Output Constant output current	—	—	●	●	●	—	●	●	Optional
Output Limit the maximum KW	Optional	Optional	●	●	●	—	●	●	Optional
Output Constant output KW	—	—	●	●	●	—	●	●	Optional
Output Limit the maximum output voltage	—	—	—	—	—	●	—	●	Optional
Output Constant output voltage	—	—	—	—	—	●	—	●	Optional
Output Output voltage and current control	—	—	—	—	—	—	—	●	Optional
7-segment digital display	●	●	●	●	●	●	●	●	●
KEY key parameter setting functions	●	●	●	●	●	●	●	●	●
Separate display box operation	●	●	●	●	●	●	●	●	●
40°C Intelligent cooling fan control	●	●	●	●	●	●	●	●	●
85°C Over-temperature stop function	●	●	●	●	●	●	●	●	●
Built-in high-speed fuse	●	●	●	●	●	●	●	●	●
Three-phase output current unbalance alarm output	—	—	Optional	Optional	Optional	—	●	—	—
Modbus Rs485 communication	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Error contact output function	●	●	●	●	●	●	●	●	●
Load is disconnected Ground short circuit detection	Optional	Optional	●	●	●	—	●	●	—
Breakdown detection module	Optional	Optional	●	●	●	—	●	●	—
PCB voltage range AC85 ~ 265V	●	●	●	●	●	●	●	●	●

Mode specification

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

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

Type	Mode	Main power		Output current				Output control mode		Temperature		RS485 Communication	
T7	1	0	AC12~80V	028	28A	150	150A	Z	Zero-cycle control	T	PID温控 Temperature	R	485通訊 Yes
		1	AC85~160V	030	30A	175	175A						

Standard	
ST7	
Compact	
WT7	
Water cooled	

	Phase / zero can changed
2	Control two-phase Cycle had zero power adjustment
4	3-pnase half wave control Phase / zero can changed
5	Phase / zero can be changed 3-phase full-controlled load center can be accessed 0V line

4	AC180~440V
6	AC460~600V

040	40A	200	200A
050	50A	225	225A
060	60A	250	250A
075	75A	300	300A
080	80A	400	400A
100	100A	500	500A
125	125A	800	800A
1200	1200A		

P	Phase shift control
CT	Current limit
C	Constant current
VT	Voltage limit
V	Constant voltage
AT	3Ø Current control
CV	Voltage and current control
DC	DC Output Control
KW	limit KW
KWT	Constant KW
CYC	Change the cycle of output OUT 30% ON OFF 周期時間3~30秒可設定

TP	5組40段 溫控曲線 Program temperature
N	無 No

N	無 No

The purchase of goods	Map 	Set the device to extend the line	Mode	T7K-2	T7K-4
			Length	2M	4M

MODE:			Current	Image	Dimensions (mm) L	W	D	Installation (mm) L	W	Weight Kg	Load KW 220V	380V	Lock compact new force		Cooling mode
ST7	1Ø	ST7-X-X-028X	28A	F1	185	110	155	170	105	1.8	3	6	M6	40kgfcm	Natural
		ST7-X-X-030X	30A	F1	185	110	155	170	105	1.8	4	7	M6	50kgfcm	
		ST7-X-X-040X	40A	F1	185	110	155	170	105	1.8	6	9	M6	50kgfcm	
	3Ø	ST7-X-X-028X	28A	F1	185	110	155	170	105	1.8	5	12	M6	70kgfcm	
		ST7-X-X-030X	30A	F1	185	110	183	170	105	1.8	6	15	M6	75kgfcm	Fan
		ST7-X-X-040X	40A	F2	220	110	183	170	105	2.5	9	18	M6	85kgfcm	
T7	1Ø T7	T7-X-X-050-X	50A	F3	210	110	183	170	105	1.8	7	12	M6	50kgfcm	Natural
		T7-X-X-060-X	60A	F3	210	110	183	170	105	1.8	10	18	M6	50kgfcm	
		T7-X-X-075-X	75A	F3	235	110	183	170	105	1.8	14	24	M6	70kgfcm	Fan
		T7-X-X-080-X	80A	F3	235	110	183	170	105	1.8	15	25	M6	75kgfcm	
		T7-X-X-100-X	100A	F3	235	110	183	170	105	2.5	18	33	M6	85kgfcm	
		T7-X-X-125-X	125A	F3	235	110	183	170	105	2.5	22	40	M6	95kgfcm	
		T7-X-X-150-X	150A	F3	235	110	183	170	105	2.8	26	45	M8	170kgfcm	
		T7-X-X-175-X	175A	F3	235	110	183	170	105	2.8	30	50	M8	200kgfcm	
		T7-X-X-200-X	200A	F3	250	140	205	170	135	3.8	35	62	M8	220kgfcm	
		T7-X-X-225-X	225A	F3	250	140	205	170	135	3.8	39	66	M8	250kgfcm	
		T7-X-X-250-X	250A	F3	250	140	205	170	135	4.5	42	75	M10	250kgfcm	
		T7-X-X-300-X	300A	F3	250	140	205	170	135	4.5	52	90	M10	250kgfcm	
		T7-X-X-400-X	400A	F4	370	180	255	250	160	6.5	70	120	M12	250kgfcm	
		T7-X-X-500-X	500A	F4	370	180	255	250	160	6.5	90	150	M14	250kgfcm	
		T7-X-X-800-X	800A	F4	440	275	270	235	255	15	120	220	M16	250kgfcm	
		WT7-X-X-1200-X	1200A	F4	440	275	270	235	255	22	160	300	M16	250kgfcm	Water
		T7-X-X-040-X	40A	F3	250	140	205	170	135	2.8	9	18	M6	40kgfcm	
		T7-X-X-050-X	50A	F3	250	140	205	170	135	3.5	14	26	M6	50kgfcm	
		T7-X-X-060-X	60A	F3	250	140	205	170	135	3.9	16	32	M6	50kgfcm	

	3Ø T7	T7-X-X-075-X	75A	F3	250	140	205	170	135	3.9	22	40	M6	70kgfcm	Fan
		T7-X-X-080-X	80A	F3	250	140	205	170	135	3.9	25	42	M6	75kgfcm	
		T7-X-X-100-X	100A	F3	250	140	205	170	135	3.9	32	56	M6	85kgfcm	
		T7-X-X-125-X	125A	F3	300	140	205	170	135	5.1	38	67	M6	95kgfcm	
		T7-X-X-150-X	150A	F3	300	140	205	170	135	5.7	45	80	M8	170kgfcm	
		T7-X-X-175-X	175A	F3	370	180	255	250	160	10	50	90	M10	250kgfcm	
		T7-X-X-200-X	200A	F4	370	180	255	250	160	10	55	100	M10	250kgfcm	
		T7-X-X-225-X	225A	F4	370	180	255	250	160	10	68	120	M10	250kgfcm	
		T7-X-X-250-X	250A	F4	335	275	250	225	255	18	75	140	M10	250kgfcm	
		T7-X-X-300-X	300A	F4	335	275	250	225	255	18	89	160	M10	250kgfcm	
		T7-X-X-400-X	400A	F4	440	275	270	235	255	22	120	220	M12	250kgfcm	
		T7-X-X-500-X	500A	F4	440	275	270	235	255	26	150	270	M14	250kgfcm	
WT7		T7-X-X-800-X	800A	F4	600	275	290	300	255	30	260	450	M16	250kgfcm	
		WT7-X-X-1200-X	1200A	F4	600	275	290	300	255	30	300	550	M16	250kgfcm	Water