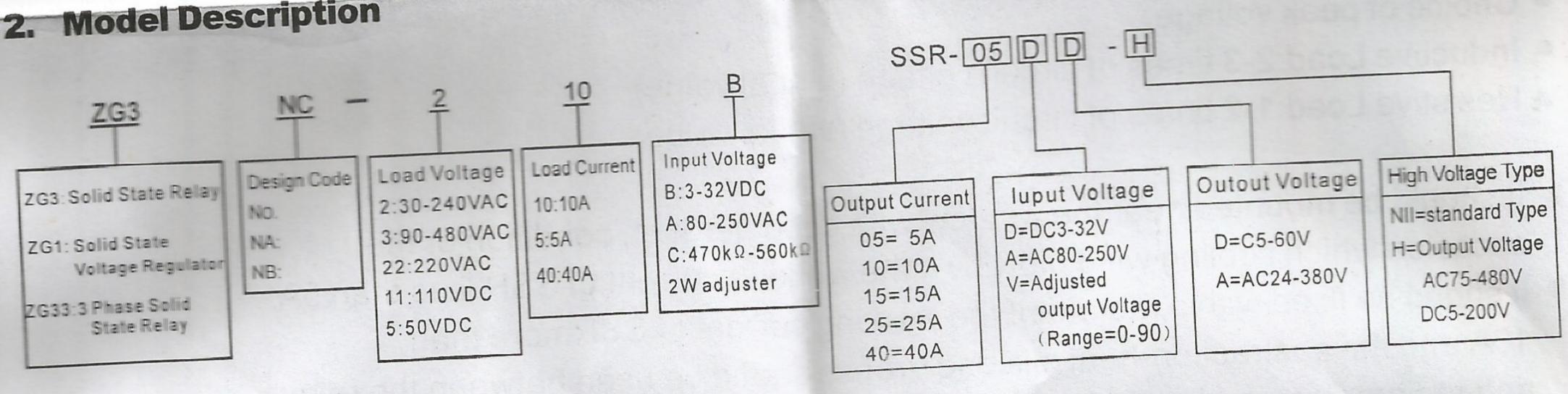
SOLID STATE RELAY INSTUCTION MANUAL

1.General description of Solid State Relay

Solid State Realy is called SSR for short.ZG3 series solid state relay made by our factory is the latest non-contact electronic switch with good ON-OFF performance.lts input contact only requires tinny control current and can be compatible with intergrated circuit of Ttl and CMOS.etc. The outprut return circuit adopts Double-Way controlled silicon or big power transistor to cut on or cut off the loading cureent. The optical couple is adopted between the input and output.

Because Solid State Relay is a non-contact switch element, made up of state stateelements.compared with electromagnetic relay.it is more reliable.lt has many advantages.such as long servicelife.Little disturbance to surrounding and strong anti-interference performance, etcterference performance.etc. Lt has wide application fields. And it tends to replace the traditional electromagnetic relay and further expands to the fields which traditionalelectromagnetic relay is not applicable for .like Input/Output Interface of computer and program control electric stove heating constant temperature equipment, duplicator, color machine, remote control system, industrial automatic device, signl lamp, traffic lamp, stagelighting control equipment,instrumet and meter,medical equipment.duplicator.color enlargr,and rubber & plastic machine. In some special devices which require dampproof, fire proof and ant-corrosinon, and under bad working envionment, SSR hasincomparable superiorty in comparison with traditional electromagnetic relay. It is an ideal productto replace the old generations of products in relay family.

2. Model Description

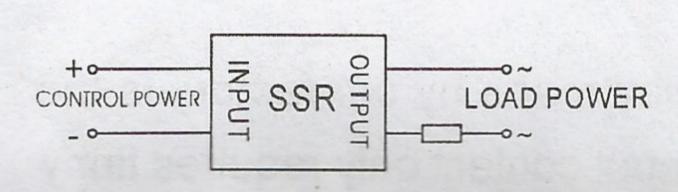


Specifications

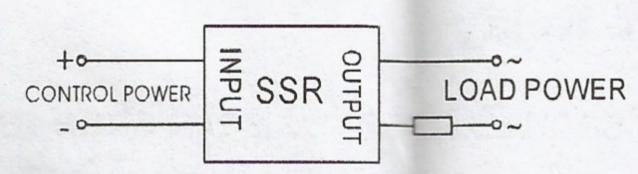
							Output Specifications Output Dielectric On-state Work Protection							Cooling	Safety work current		Dimensions	
	Input Specifications					on								condition			(mm)	
ModeL	Control Voltage	Control	Start	Start	Shut-off V	g indic	voltage	current	strength	voltage drop VAC	temperature	Over voltage	Ove		Condition			
	VDC	-	VDC	mA	VDC	ale	VAC		≤2500	<1.5	-20	<	Circ		10-80A with radiator	pain!	man	L 58
	3-32	<25	3	€7	≤1.5	LED	24-240	0.1-300	2300		+70	ar.	uit	Fuse	80-300A with cooling fan	adet	6019	200
Single	3-14	<36	3	€7	≤1.5	LED	38-480	0.1-300	≤2500	<1.5	+70	Varisto	rea		the abstraction-heat silicone greas	60%	40%	
	90-250			17	10VAC	LED	480-1200	0.1-300	≤2500	<1.5	-20 +70		ker		shoud be used between			W 44
	VAC	1 5 00	30 90VAC	<7		-				≤1.5	-20	D	iode		the relay and radiator		100	
	3-15	<30	3	€7	1.5	LED	36-600VDC	0.1-80	2500	1.0	1 .70	Va	Circ	T	10-30A with radiator		40%	H32
Voltage	\\\/:+1	With regulate potentiometer						0.1-120	/		-20 +70	risto	it breake	use	40-120A	60% n	4070	
Regulator	VVIII	470k	(Ω2V	V			0-380		/_	/		1	Cir	-	10-80A with radiate	or		L 104
Three	3.5-32	T < 30	3.5	≤15		LED	380	10-40			-20	ari	cuit b	Sn	80-200A With Cooling to		40%	W73.5
	90-25 VAC	0 20				C LED	440	50-80		<1.5	+70	sto	Circuit break	0	Shord of asea permeen			H 24
Phase		40 < 25	220VA	AC ≤20	0 30VA	C LED		80-25					en		the relay and radiator		1	

4. Wiring Diagram

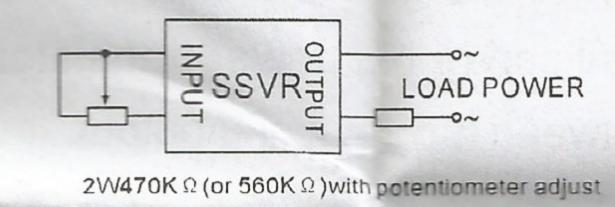
1, AC SSR Wiring Diagram



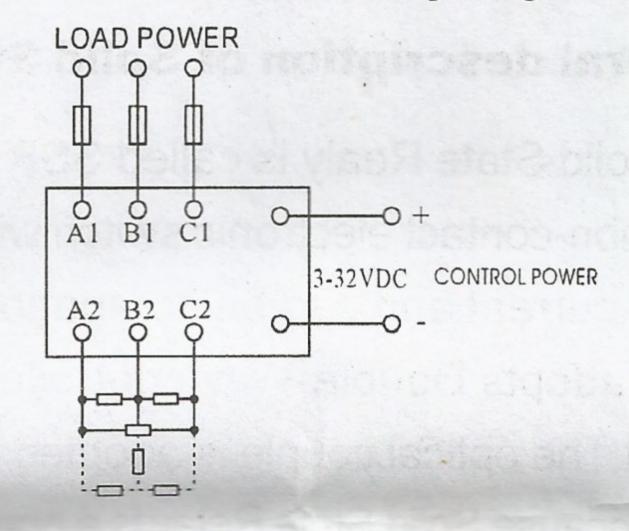
2. DC SSR Wiring Diagram



3. Regulator Wiring Diagram



4、3 Phase SSR Wiring Diagram



5. Cautions

- Input Conditions;
- Undulatory motion coefficient of input voltage should be less than 5%
- To make sure the SSR work in order, increase the input current when the environment temperatuer is low as well as decrease the input current when the environment temperatuer is high.

It should be enough load capacity when use Intergrated Circuit drive SSR, and

- should use as low as possible O current level.
- Output Conditions;
- To make sure the SSR work in order, must use correct ssr extreme specifications and take necessary protection step.
- Choice of peak voltage;
- Inductive Load:2-3 times of circuit voltage (virtual value)
- Resistive Load: 1-2 times of circuit voltage (virtual value)
- ► It should be mounted near the window with good aeration condition or the occasion which cooling wind blow by if the working current of SSR less than 5A.
- It shoud be fixed with a radiator if the working current of SSRmore than 10A,and the abstraction-heat silicone grease shoud be used between the relay and radiator. It should be force to wind cooling if the surface temperature of the radiato approximate60°C.
- ➤ To avoid the temperature-rise overrun the allowable value, the heat emission effect and mounting position sould be fully considerable. It should keep a certain space when 2 pieces or more SSR mounting side by side.
- Resistive load should not be more than 60% of rate current, inductive load should not be more than 40% of rate current.
- Not applicable in below occasions
- Three-phase motor device
- Application of over-zero input
- Capacitance load and commutate circuit
- Applications of complete sine wave input
- Occasions can not suffer inferfere cased by phase modulation wave