

**UL certified SSR, GOLD SSR, 25A-50A AC three phase SSR, AC control AC solid state relay, input 4-32VDC, input with LED indication, output three phase, output current capacity 25A-50A, output voltage 40-600VAC**

Product selection

<b>S</b>	<b>A</b>	<b>3</b>	<b>40</b>	<b>20</b>	<b>D</b>	<b>R</b>
SSR(solid state relay)	A:AC output	3:three phase voltage 2:two phase	load 40: 480VAC 66: 660VAC	Load current 20A	D:4-32VDC A:90-280VAC	R:random :zero crossing

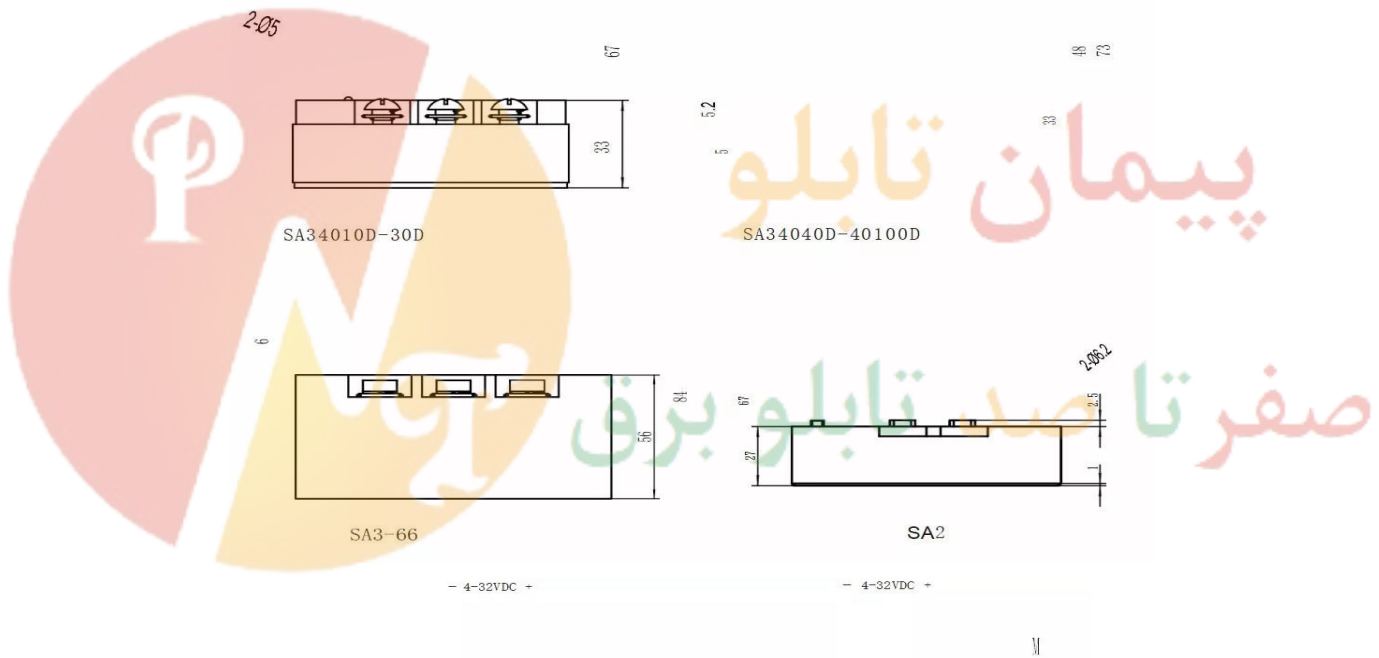
ITEM	LOAD COLTAGE	LOAD CURRENT	INDICATION
SA3-4010D/A	40-480VAC	10A	INPUT LED
SA3-4015D/A	40-480VAC	15A	INPUT LED
SA3-4020D/A	40-480VAC	20A	INPUT LED
SA3-4025D/A	40-480VAC	25A	INPUT LED
SA3-4030D/A	40-480VAC	30A	INPUT LED
SA3-4040D/A	40-480VAC	40A	INPUT LED
SA3-4060D/A	40-480VAC	60A	INPUT LED
SA3-4080D/A	40-480VAC	80A	INPUT LED
SA3-40100D/A	40-480VAC	100A	INPUT LED
SA3-40120D/A	40-480VAC	100A	INPUT LED

Product parameters

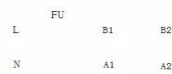
input parameter		
Control voltage	4-32VDC	90-280VAC
Turn-off	1VDC	15VAC
Turn-on	4VDC	90VAC
Control current	6-25mA (Built in constant current circuit)	6-20mA
output		
Load voltage	SA3-40/SA2-40	SA3-60
	40-480VAC	40-600VAC
Min turn-on	50mA	
Max turn-on	1.7VAC	
Max turn-off	10mA	
Du/dt	500V/us	
Max turn-on time	random	1/2circle+1mA
	Zero crossing	10mA

	AC control	40mA
Max current	turn-off DC control	10mA
	AC control	40mA
	45-65HZ	
Other data		
Min isolation	Input and output 2000VAC	
Min insulation	Input and output with the plate 2000VAC	
Insulation resistance	1000MΩ(500VDC)	

Dimension(mm)

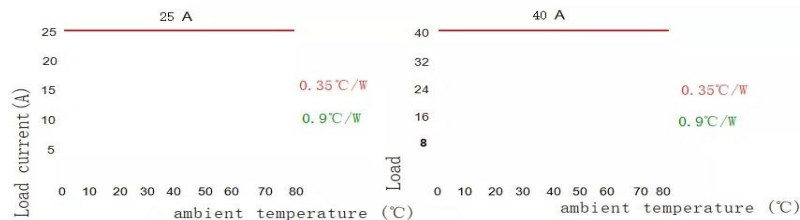


Three phase heating control diagram      Three phase motor control diagram



Two phase solid state wiring diagram

temperature curve



### Precautions for use

1. Product manufacturers have made great efforts on product quality and reliability, but the semiconductor power devices used in solid state relay, such as improper selection or use, will still lead to irrecoverable damage. In addition, due to grid voltage fluctuation (usually

A certain safety factor must be considered when selecting the type. For example: the long-term working current of electric heating should not exceed 60% of the current rated nominal value of SSR, and the working current of motor should not exceed 1 / 7 of the current rated nominal value of SSR.

2. When the long-term working current is greater than or equal to 5A, the matching radiator must be installed, and the temperature of radiator bottom plate shall not exceed 80 °C

. If the ambient temperature is too high, air cooling must be adopted to accelerate the air flow in order to obtain better heat dissipation effect.

3. In order to ensure that the solid-state relay is in close contact with the radiator surface during the installation process to achieve better heat dissipation effect, Our Company is equipped with special heat-conducting film or special heat-conducting silicone grease according to different current levels. During installation, please place the heat-conducting film between the bottom plate of solid-state relay and the contact surface of radiator in parallel and fasten the installation fixing screw. For those equipped with heat-conducting silicone grease, please evenly apply appropriate amount of heat-conducting silicone grease on the bottom plate of solid-state relay and fasten the installation fixing screw.

4. When the module is fastened to the radiator surface, M4 screw and spring washer are used to tighten the module with a torque of 4-6nm. After 3 hours of use, the module is tightened once with the same torque.

5. The recommended tightening torque of M3 screw at control end is 0.8-1nm, and that of M5 screw at load end is 1.9-2.1nm.

6. In order to prevent the breakdown damage of solid-state relay caused by load short circuit or overload of current and voltage in use, it is strongly recommended to install and use the matching special fast fuse (our company can provide supporting services). For inductive load, it is necessary to install varistor and RC absorption circuit at solid-state output end to prevent damage to thyristor in case of over-voltage. Selection of varistor (MOV): 430-470v for 240V, 680-750v for 40V and 1100-1200v for 660V.

7. The storage requirements of solid-state relay should be moisture-proof, moisture-proof, avoid rain, fall and violent fall. Store in a well ventilated area

In dry, non-corrosive gas environment, the humidity of the environment must be less than 80%.

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