

Product Usage Precautions

- When selecting the output current and voltage of the product, an appropriate margin should be reserved: it is better to be larger rather than too small.
- When wiring the input control terminal of the solid-state relay, pay attention to the magnitude and polarity of the voltage value. If the actual control voltage is higher than the rated voltage, an appropriate resistor can be connected in series in the control circuit so that the control current is greater than the guaranteed turn-on current of the product.
- Products with a working current below 5A should be installed as close as possible to a heat dissipation window with good ventilation or a place where cooling air can reach.
- Products with a working current above 10A must be installed with a heat sink. Thermal conductive silicone grease should be applied between the relay and the heat sink for good heat dissipation. Forced air cooling or water cooling should be adopted when the surface temperature of the heat sink is close to 60° C.
- Overvoltage and overcurrent protection measures must be added to the output circuit (such as overvoltage protection: MOV for 220VAC should be selected as 470-500V, and for 380VAC should be selected as 750-780V; overcurrent protection: fast-blow fuse should be used).

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Instruction Manual for HHG5 Series

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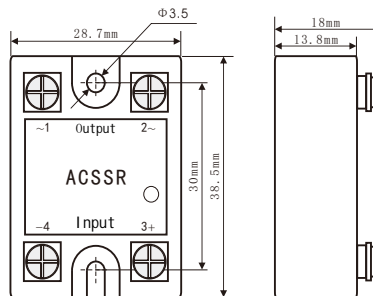
欣灵电气股份有限公司 XINLING ELECTRICAL CO., LTD.

Single-phase AC Solid-state Relay

HHG5 Series 5 - 15A

Input Parameters				
Control Voltage (VDC)	Control Current (mA)	Pick-up Voltage (VDC)	Pick-up Current (mA)	Turn-off Voltage (VDC)
3-14	<35	3	≧5	≦1.5
3-32	<25	3	≧5	≦1.5
Output Parameters				
Output Voltage (VAC)	Output Current (A)	Dielectric Withstand Voltage (VAC)	On-state Voltage Drop (VAC)	Operating Temperature (°C)
24-240	5-15	≧2000	<1.5	-20~70
24-440	5-15	≧2000	<1.5	-20~70
Safe Operating Conditions				
Cooling Conditions	Line Protection		Safety Factor of Operating Current	
1-5A: No heat sink required. Installed in a well-ventilated place. 10-20A: Equipped with a heat sink. 30-200A: Added thermal forced air cooling by fan or water cooling.	Overvoltage	Overcurrent	Resistive Load	Inductive Load
	RC MOV	Fast Fuse	60%	40%

Installation Dimensions (Unit: mm)



Wiring Diagram

