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Integrated Solid State Relay

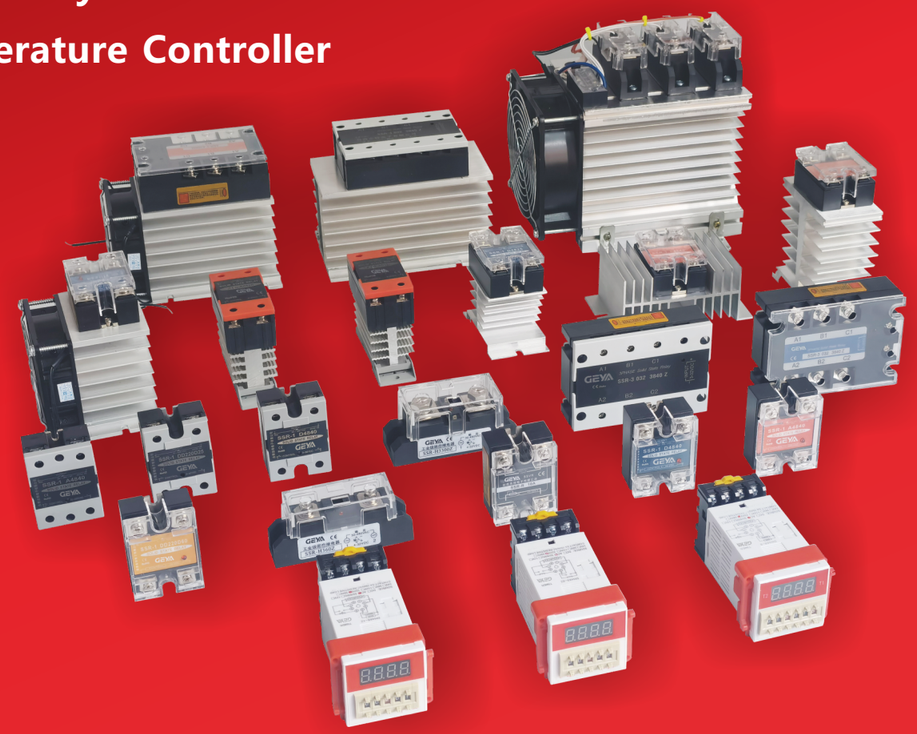
Integrated Solid State Relay

Alternative AC contactor | Zero-cross conduction | With safer high-performance



Intelligent Chip | Super anti-interference | Better performance | High quality

- Solid State Relay
- Regulator
- Radiator Integrated Solid State Relay
- Three-phase motor forward and reverse control module
- Miniature Relay
- Time Relay
- Temperature Controller



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The url： www.cngeya.com

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2021 Product Selection

About us

Located in Wenzhou,Zhejiang, Geya Electric Co., Ltd. is a professional relay manufacturer. We are committed to market research and R&D investment, and continuously develop new products according to the market. Our main products are single-phase solid-state relays, three-phase solid-state relays, integrated solid-state

Geya Electric has a complete quality assurance system, and has obtained ISO9001 and ISO14001 certificates. All the products have been 3C marked, and some products have passed the CE and other international standard certifications.

Geya Electric adheres to "quality comes first", and has achieved a good reputation in the industry, well trusted and praised by customers. Welcome all the customers to visit our company.

Our qualifications


SAPO CERTIFICATION & TESTING LABORATORY

CERTIFICATE OF CONFORMITY

EU +EMC DIRECTIVE 2014/30/EU

NO.: SP10016Z2009445

Applicant: ZHEJIANG GEYA ELECTRICAL CO .,LTD

Applicant Address: Wenzhou Beige Industrial Zone,Beibaixiang Town,Yueqing,Zhejiang,China

Product Description: 3PHASE SOLID STATE RELAY

Model / Parameters: SSR-3 032 3810Z,SSR-3 032 3825Z,SSR-3 032 3840Z, SSR-3 032 3840Z, SSR-3 032 3280Z,SSR-3 032 3810Z, SSR-3 032 3820Z, SSR-3 032 3810Z,SSR-3 032 3815DZ,SSR-3 032 3820DZ, SSR-3 A3810Z,SSR-3 A3815Z,SSR-3 A3840Z, SSR-3 A3860Z, SSR-3 A3880Z,SSR-3 A3810DZ,SSR-3 A3813DZ,SSR-3 A3815DZ, SSR-3 A3820DZ

Complies with the requirements of the European Community Directive 2014/30/EU. The submitted products have been tested by us with the listed standards and found in compliance with the following European Standards:

EN 60255-26:2013

EN IEC 61000-3-2:2019, EN 61000-3-3:2013/A1:2019

This certificate of conformity is based on an evaluation of a sample of the above mentioned product. Technical Report and documentation are at the Licence applicant's disposal. This certificate does not imply assessment of the series-production of the product. The CE markings as shown below can be affixed on the product after preparation of necessary technical documentation.

Authorized by: Helen Chief Assessor September 22,2020

SAPO CERTIFICATION & TESTING LABORATORY LIMITED

THIS CERTIFICATE REFLECTS THE FINDINGS OF THE TIME AND PLACE OF THE AUDIT

THIS CERTIFICATION IS ONLY VALID WITH THE TEST REPORT/ TECHNICAL CONSTRUCTION FILE

Internet site: www.sapo.org.uk; E-mail:sapo@sapo.org.uk

Single-phase DC control AC solid state relay



GSR1-1-100DA

PAGE 01~03

Single Phase AC Current Control AC Solid State Relay



GSR1-1-25 A

PAGE 04~06

Single-phase DC control DC solid state relay



GSR1-1-25 DD

PAGE 07~09

Industrial Solid State Relay



GSR-H 3

PAGE 10~12

Product List

Three-phase DC control AC solid state relay



GSR1-3-40DA

PAGE 13~15

Three-phase AC control AC solid state relay



GSR1-3-40 A

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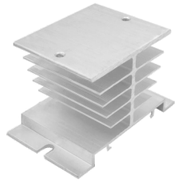
Radiator Integrated Solid State Relay



DA/DD

PAGE 19

Radiator



MA/MB/MC/MD/ME/MF

PAGE 20







Product performance and features

- Wide input voltage range, small control current, samller or equal to 15mA;
- No mechanical operation parts, long lifespan and high reliability;
- Fast switching, zero-voltage turn-on, zero-current turn-off, low radio frequency interference;
- built-in resistance-capacitance absorption to protect the product from the impact of the instantaneous current at startup;
- Photoelectric isolation between input and output circuits, insulation withstand voltage 2500V;
- The product is small in size, filled with epoxy resin inside, shock-proof, moisture-proof and corrosion-proof

Model Definition

GSR 1 - 1 25 DA

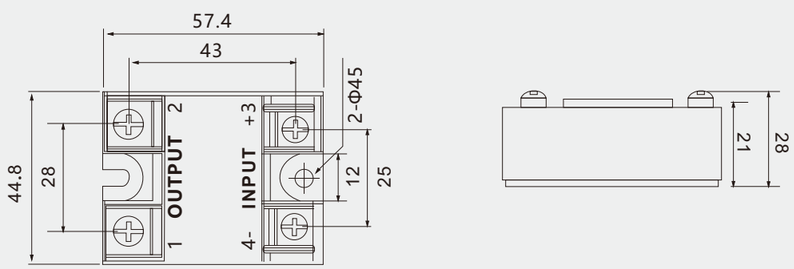
- DA — Control type (D: DC control AC; A: AC control AC; DD: DC control DC)
- 25 — Rated output current (10A/25A/40A/60A/80A/100A/120A)
- 1 — Phase number (1: single-phase; 2: two-phase; 3: three-phase)
- 1 — Radiating (1. with radiating; 2. without radiating)
- GSR — Design Number

Note: The control voltage of the zero-crossing type is constant current: 3-32VDC (trigger current ≥ 5mA)
The control voltage of random type is series resistance: 4-8VDC (trigger current≥10mA)"

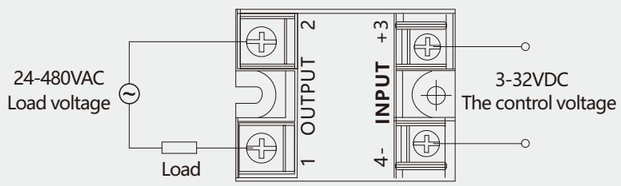
Input and output parameters and general characteristics

Input parameters							
Control voltage range	3-32VDC						
Minimum control current	5mA						
Maximum control current	15mA						
Ensure the voltage is switched on	3.5VDC						
Ensure that the shutdown voltage	1.5VDC						
Output parameters							
Output voltage range	24-480VAC						
Specifications/Maximum Load Current Peak Voltage	10A	25A	40A	60A	80A	100A	120A
Peak voltage	800VAC	800VAC	800VAC	1200VAC	1200VAC	1200VAC	1200VAC
Insulation resistance	1000MΩ/500VDC						
Leakage current in OFF state	≤8mArms	≤8mArms	≤8mArms	≤2mArms	≤2mArms	≤2mArms	≤2mArms
Saturation voltage drop in On state	≤1.5V						
On-off response delay	≤10ms						
General characteristics							
size	57.4L×44.8W×28H						
weight	100g						
Insulation withstand voltage between input and output	2500Vrms						
Insulation withstand voltage between input and output and encloser ambient temperature	4000Vrms						
environment temperature	-20°~75°C						
Installation:	bolt fixing						
Certification	CE						

Appearance and installation dimensions



Wiring, control voltage and current curve



Notices

1. When selecting relays, please pay special attention to the working current and ambient temperature of the load. When the load is working, it is necessary to add enough radiator or take other effective radiating measures.

2. The heat generated by the relay needs to be dissipated through the relay metal base. When installing, please pay attention to the tight cooperation between the relay and the radiator, the installation should be firm and the joint surface should be coated with thermal grease.

3. When the output terminal and the load line are loosely connected, the product will be burnt due to the heat generated during power-on. The followings are the recommended screw installations for product wiring: M4 screw installation with a torque of 0.98~1.37N.m, M3 screw installation torque of 0.58~0.98 N.m, excessive torque will damage the relay.

4. Random solid state relays need to be ordered. Any questions about the product please call us for the relevant technical information.

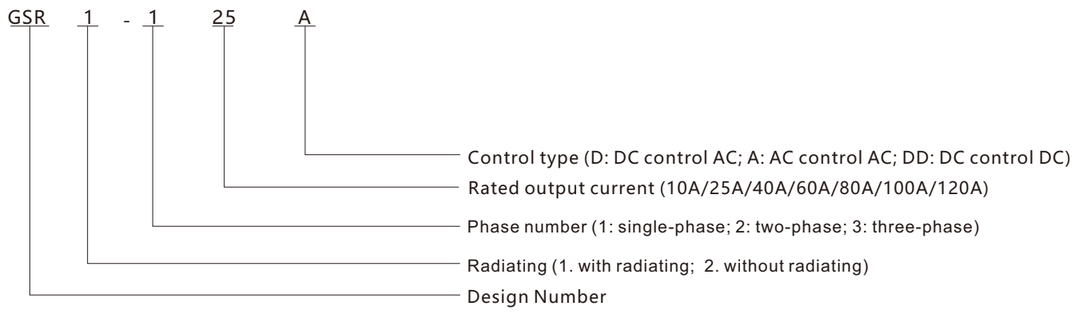




Product performance and features

- Wide input voltage range, small control current, samller or equal to 10mA;
- No mechanical operation parts, long lifespan and high reliability;
- Fast switching, zero-voltage turn-on, zero-current turn-off, low radio frequency interference;
- in resistance-capacitance absorption to protect the product from the impact of the instantaneous current at startup;
- Photoelectric isolation between input and output circuits, insulation withstand voltage 2500V;
- The product is small in size, filled with epoxy resin inside, shock-proof, moisture-proof and corrosion-proof

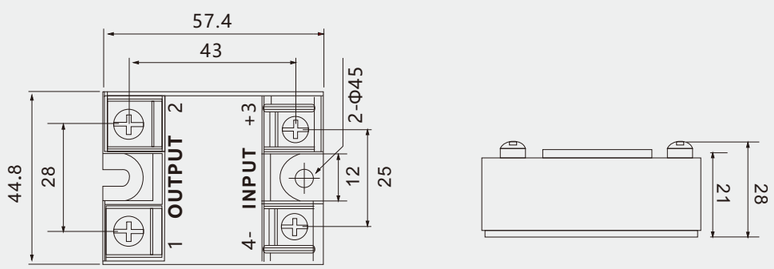
Model Definition



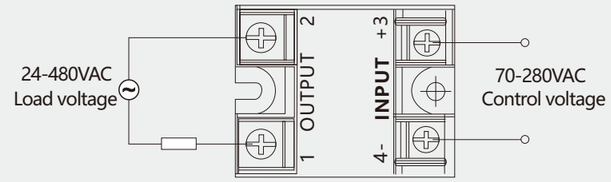
Input and output parameters and general characteristics

Input parameters							
Control voltage range	70-280VAC						
Minimum control current	5mA						
Maximum control current	10mA						
Ensure the voltage is switched on	90VAC						
Ensure that the shutdown voltage	50VAC						
Output parameters							
Output voltage range	24-480VAC						
Specifications/Maximum Load Current	10A	25A	40A	60A	80A	100A	120A
Peak Voltage	800VAC	800VAC	800VAC	1200VAC	1200VAC	1200VAC	1200VAC
Insulation resistance	1000MΩ/500VDC						
Leakage current in OFF state	≤8mArms	≤8mArms	≤8mArms	≤2mArms	≤2mArms	≤2mArms	≤2mArms
Saturation voltage drop in On state	≤1.5V						
On-off response delay	≤10ms						
General characteristics							
size	57.4L×44.8W×28H						
weight	100g						
Insulation withstand voltage between input and output	2500Vrms						
Insulation withstand voltage between input and output and encloser ambient temperature	4000Vrms						
environment temperature	-20°~75°C						
Installation:	bolt fixing						
Certification	CE						

Appearance and installation dimensions



Wiring, control voltage and current curve



Notices

1. When selecting relays, please pay special attention to the working current and ambient temperature of the load. When the load is working, it is necessary to add enough radiator or take other effective radiating measures.

2. The heat generated by the relay needs to be dissipated through the relay metal base. When installing, please pay attention to the tight cooperation between the relay and the radiator, the installation should be firm and the joint surface should be coated with thermal grease.

3. When the output terminal and the load line are loosely connected, the product will be burnt due to the heat generated during power-on. The followings are the recommended screw installations for product wiring: M4 screw installation with a torque of 0.98~1.37N.m, M3 screw installation torque of 0.58~0.98 N.m, excessive torque will damage the relay.

4. Random solid state relays need to be ordered. Any questions about the product please call us for the relevant technical information.





Product performance and features

- Wide input voltage range, small control current, samller or equal to 25mA;
- No mechanical operation parts, long lifespan and high reliability;
- Fast switching, zero-voltage turn-on, zero-current turn-off, low radio frequency interference;
- Adopt imported IR field effect tube, with stable quality and outstanding performance;
- The product is small in size, filled with epoxy resin inside, shock-proof, moisture-proof and corrosion-proof

Model Definition

GSR 1 - 1 25 DD

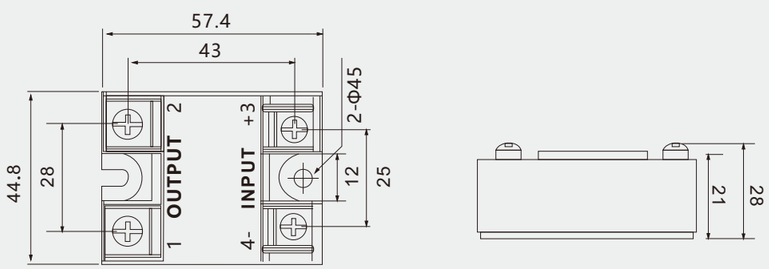
- DD: Control type (D: DC control AC; A: AC control AC; DD: DC control DC)
- 25: Rated output current (10A/25A/40A/60A/80A/100A/120A)
- 1: Phase number (1: single-phase; 2: two-phase; 3: three-phase)
- 1: Radiating (1. with radiating; 2. without radiating)
- GSR: Design Number

The default load withstand voltage is 220VDC, other withstand voltages need to be customized

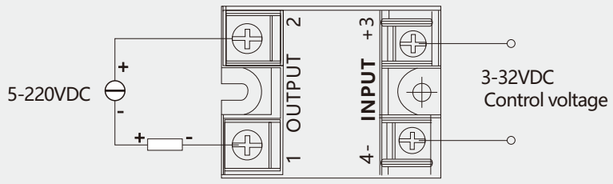
Input and output parameters and general characteristics

Input parameters							
Control voltage range	3-32VDC						
Minimum control current	5mA						
Maximum control current	25mA						
Ensure the voltage is switched on	3.5VDC						
Ensure that the shutdown voltage	1.5VDC						
Output parameters							
Output voltage range	12-220VDC						
Specifications/Maximum Load Current	10A	25A	60A	40A	80A	100A	120A
Peak Voltage	220VDC						
Insulation resistance	500MΩ/500VDC						
Leakage current in OFF state	≤2mA rms						
Saturation voltage drop in On state	≤2V						
On-off response delay	≤10ms						
General characteristics							
size	57.4L×44.8W×28H						
weight	100g						
Insulation withstand voltage between input and output	2500V rms						
Insulation withstand voltage between input and output and encloser ambient temperature	4000V rms						
environment temperature	-20°~75°C						
Installation:	bolt fixing						
Certification	CE						

Appearance and installation dimensions



Wiring, control voltage and current curve



Notices

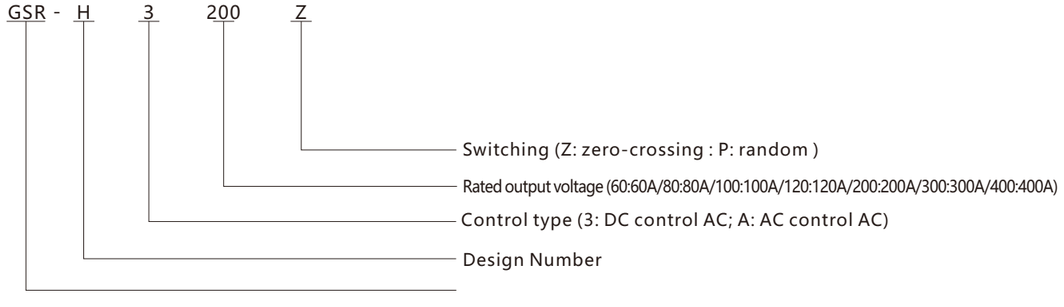
1. When selecting relays, please pay special attention to the working current and ambient temperature of the load. When the load is working, it is necessary to add enough radiator or take other effective radiating measures.
2. The heat generated by the relay needs to be dissipated through the relay metal base. When installing, please pay attention to the tight cooperation between the relay and the radiator, the installation should be firm and the joint surface should be coated with thermal grease.
3. When the output terminal and the load line are loosely connected, the product will be burnt due to the heat generated during power-on. The followings are the recommended screw installations for product wiring: M4 screw installation with a torque of 0.98~1.37N.m, M3 screw installation torque of 0.58~0.98 N.m, excessive torque will damage the relay.
4. Random solid state relays need to be ordered. Any questions about the product please call us for the relevant technical



Product performance and features

- Wide input voltage range, small control current, samller or equal to 15mA;
- No mechanical operation parts, long lifespan and high reliability;
- Fast switching, zero-voltage turn-on, zero-current turn-off, low radio frequency interference;
- Built-in resistance-capacitance absorption to protect the product from the impact of the instantaneous current;
- Photoelectric isolation between input and output circuits, insulation withstand voltage 2500V;
- The product is small in size, filled with epoxy resin inside, shock-proof, moisture-proof and corrosion-proof

Model definition

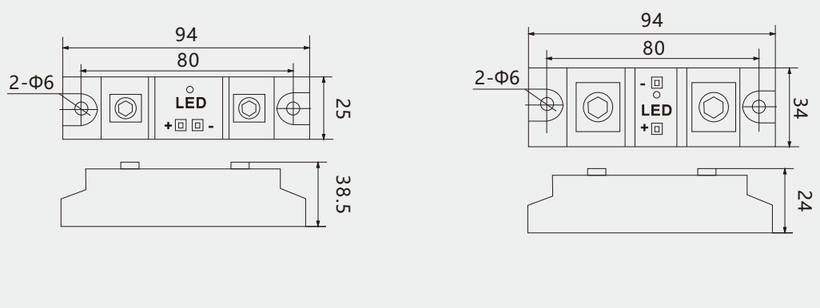


"The control voltage of the zero-crossing type is constant current: 3-32VDC (trigger current ≥ 5mA)
The control voltage of random type is series resistance: 4-8VDC (trigger current≥10mA)"

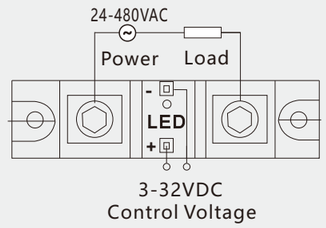
Input and output parameters and general characteristics

Input parameters							
Control voltage range	3-32VDC						
Minimum control current	5mA						
Maximum control current	15mA						
Ensure the voltage is switched on	3.5VDC						
Ensure that the shutdown voltage	1.5VDC						
Output parameters							
Output voltage range	24-480VAC						
Specifications/Maximum Load Current	60A	80A	100A	120A	200A	300A	400A
Peak Voltage	1200VAC						
Insulation resistance	1000MΩ/500VDC						
Leakage current in OFF state	≤2mA rms						
Saturation voltage drop in On state	≤ 1.5V						
On-off response delay	≤ 10ms						
General characteristics							
size	94L×25W×38H	94L×25W×38H	94L×25W×38H	94L×25W×38H	94L×34×42H	94L×34×42H	94L×34×42H
weight	170g	170g	170g	170g	250g	250g	250g
Insulation withstand voltage between input and output	2500Vrms						
Insulation withstand voltage between input and output and encloser ambient temperature	4000Vrms						
environment temperature	-20°~75°C						
Installation:	bolt fixing						
Certification	CE						

Appearance and installation dimensions



Appearance,installation dimensions and current curve



Notices

1. When selecting relays, please pay special attention to the working current and ambient temperature of the load. When the load is working, it is necessary to add enough radiator or take other effective radiating measures.

2. The heat generated by the relay needs to be dissipated through the relay metal base. When installing, please pay attention to the tight cooperation between the relay and the radiator, the installation should be firm and the joint surface should be coated with thermal grease.

3. When the output terminal and the load line are loosely connected, the product will be burnt due to the heat generated during power-on. The followings are the recommended screw installations for product wiring: M6 screw installation with a torque of 01.37~1.77N.m, M8 screw installation torque of 1.77~2.17N.m, excessive torque will damage the relay.

4. Random solid state relays need to be ordered. Any questions about the product please call us for the relevant technical information.





Product performance and features

- Wide input voltage range, small control current, samller or equal to 25mA;
- No mechanical operation parts, long lifespan and high reliability;
- Fast switching, zero-voltage turn-on, zero-current turn-off, low radio frequency interference;
- The built-in resistance-capacitance absorption protects the product from the impact of the instantaneous current;
- The photoelectric isolation between the input and output circuits, the insulation withstand voltage is 2500V;
- The product is small in size, filled with epoxy resin inside, shock-proof, moisture-proof and corrosion-proof

Model Definition

GSR 1 - 3 80 DA

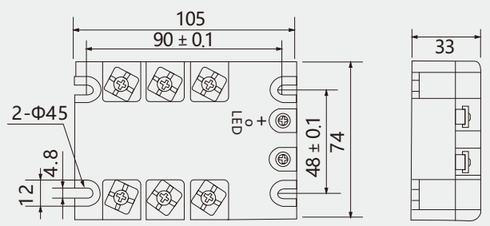
- DA: Control type (D: DC control AC; A: AC control AC; DD: DC control DC)
- 80: Rated output current (10A/25A/40A/60A/80A/100A/120A)
- 3: Phase number (1: single-phase; 2: two-phase; 3: three-phase)
- 1: Radiating (1. with radiating; 2. without radiating)
- GSR: Design Number

The control voltage of the zero-crossing type is constant current: 3-32VDC (trigger current ≥ 5mA)
The control voltage of random type is series resistance: 4-8VDC (trigger current≥10mA)"

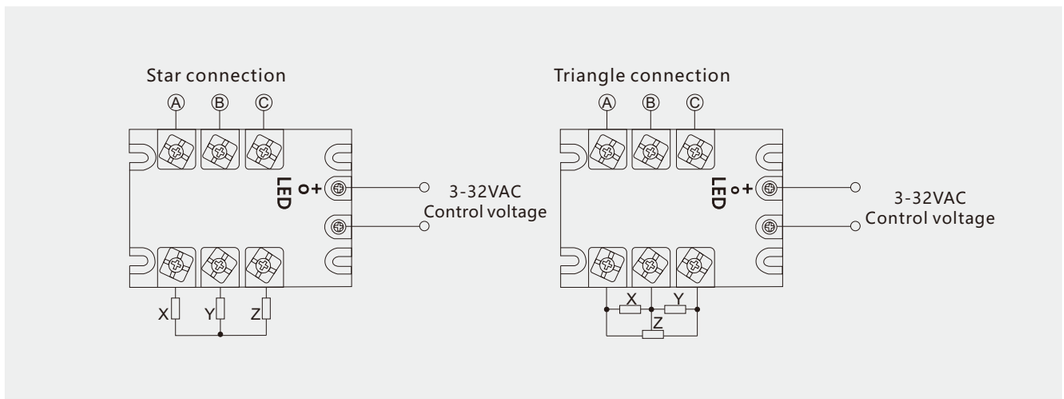
Input and output parameters and general characteristics

Input parameters								
Control voltage range	70-280VAC							
Minimum control current	5mA							
Maximum control current	10mA							
Ensure the voltage is switched on	90VAC							
Ensure that the shutdown voltage	50VAC							
Output parameters								
Output voltage range	24-480VAC							
Specifications/Maximum Load Current	10A	25A	40A	60A	80A	100A	120A	200A
Peak Voltage	800VAC	800VAC	800VAC	1200VAC	1200VAC	1200VAC	1200VAC	1200VAC
Insulation resistance	1000MΩ/500VDC							
Leakage current in OFF state	≤8mA rms	≤8mA rms	≤8mA rms	≤2mA rms	≤2mA rms	≤2mA rms	≤2mA rms	≤2mA rms
Saturation voltage drop in On state	≤ 1.5V							
On-off response delay	≤10ms							
General characteristics								
size	105L×74W×33H							
weight	500g							
Insulation withstand voltage between input and output	2500V rms							
Insulation withstand voltage between input and output and encloser ambient temperature	4000V rms							
environment temperature	-20°~75°C							
Installation:	bolt fixing							
Certification	CE							

Appearance,installation dimensions and current curve



Wiring Instruction



"There are two connection methods for three-phase alternating current, which are divided into two types: star connection and triangle connection:

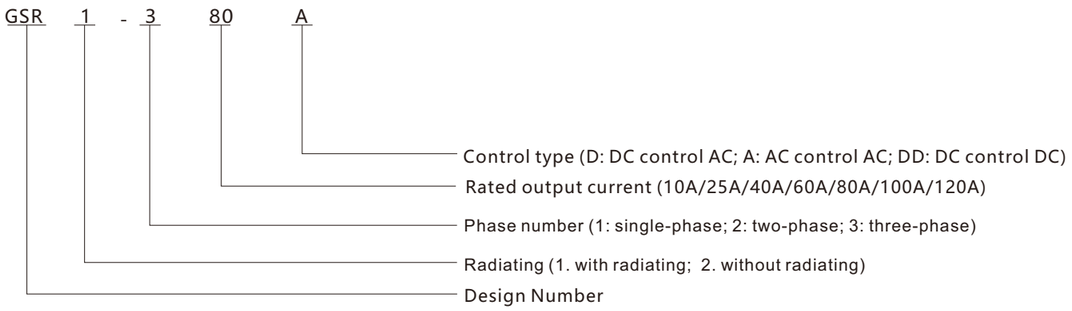
The star connection is that three ends of the three-phase load are connected together as a common terminal, and the three live wires are caused by the three first sections.
(For example, the A-phase load is represented by Ax, the B-phase load is represented by By, and the C-phase load is represented by Cz, that is, x, y and z are connected together, and three wires A, B, and C are drawn)
The voltage that each phase coil of the load is subjected to is the phase voltage of 220V, that is, the voltage between the live wire and the neutral wire (neutral wire) is 220V.
The triangle connection connects the beginning and end of each phase of the three-phase load in turn.
(For example, the A-phase load is represented by Ax, the B-phase load is represented by By, and the C-phase load is represented by Cz, that is, x is connected to B, y is connected to C, z is connected to A, and the three leads are Bx, cy, Az)
The voltage of each phase load is the line voltage of 380 volts, that is, the voltage between the live wire and the live wire"



Product performance and features

- Wide input voltage range, small control current, samller or equal to 10mA;
- No mechanical operation parts, long lifespan and high reliability;
- Fast switching, zero-voltage turn-on, zero-current turn-off, low radio frequency interference;
- The built-in resistance-capacitance absorption protects the product from the impact of the instantaneous current;
- The photoelectric isolation between the input and output circuits, the insulation withstand voltage is 2500V;
- The product is small in size, filled with epoxy resin inside, shock-proof, moisture-proof and corrosion-proof

型号定义

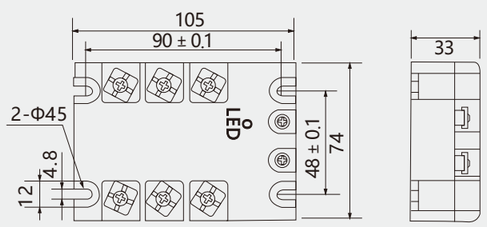


The control voltage of the zero-crossing type is constant current: 3-32VDC (trigger current ≥ 5mA)
The control voltage of random type is series resistance: 4-8VDC (trigger current≥10mA)"

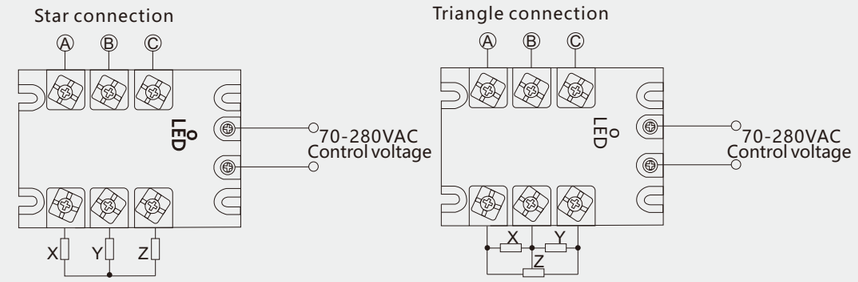
Input and output parameters and general characteristics

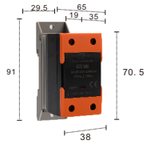
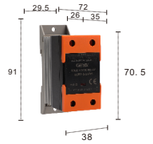
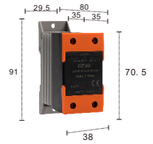
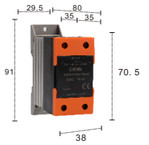
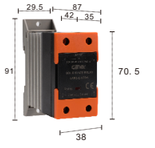
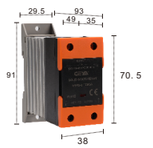
Input parameters								
Control voltage range	70-280VAC							
Minimum control current	5mA							
Maximum control current	10mA							
Ensure the voltage is switched on	90VAC							
Ensure that the shutdown voltage	50VAC							
Output parameters								
Output voltage range	24-480VAC							
Specifications/Maximum Load Current	10A	25A	40A	60A	80A	100A	120A	200A
Peak Voltage	800VAC	800VAC	800VAC	1200VAC	1200VAC	1200VAC	1200VAC	1200VAC
Insulation resistance	1000MΩ/500VDC							
Leakage current in OFF state	≤8mA rms	≤8mA rms	≤8mA rms	≤2mA rms	≤2mA rms	≤2mA rms	≤2mA rms	≤2mA rms
Saturation voltage drop in On state	≤ 1.5V							
On-off response delay	≤ 10ms							
General characteristics								
size	105L×74W×33H							
weight	500g							
Insulation withstand voltage between input and output	2500V rms							
Insulation withstand voltage between input and output and encloser ambient temperature	4000V rms							
environment temperature	-20°~75°C							
Installation:	bolt fixing							
Certification	CE							

Appearance,installation dimensions and current curve

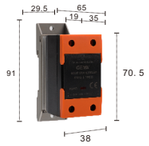
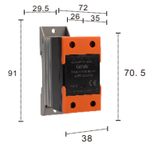
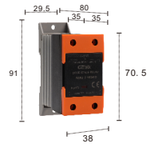
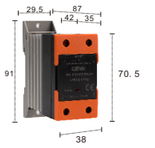
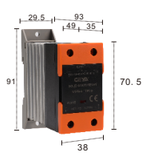


Wiring Instruction

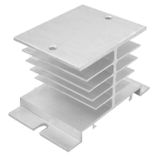


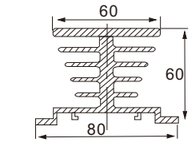
Appearance	 (DC control AC) GSR-10DA  (DC control AC) GSR-25DA  (DC control AC) GSR-40DA  (DC control AC) GSR-60DA  (DC control AC) GSR-80DA  (DC control AC) GSR-100DA

Brand	GEYA®	Control current	DC5-25MA
Product Name	GSR Solid State Relay	Power outage time	≤10mS
Control mode	DC control AC	Medium pressure	2500VAC
Load current	10A、25A、40A、60A、80A、100A	Indication	LED
Load voltage	24-480VAC	Ambient temperature	-30~+75°C
Control voltage	3-32VDC	Dimensions	45*31*58mm(opening 45mm)

Appearance	 (DC control DC) GSR-10DD  (DC control DC) GSR-25DD  (DC control DC) GSR-40DD  (DC control DC) GSR-60DD  (DC control DC) GSR-80DD  (DC control DC) GSR-100DD

Brand	GEYA®	Control current	DC5-25MA
Product Name	GSR Solid State Relay	Power-off time	≤10mS
Control mode	DC control DC	Dielectric Strength	2000VAC
Load current	10A、25A、40A、60A、80A、100A	Work instructions	LED
Load voltage	5-220VAC	Environmental temperature	-30~+75°C
Cntrol voltage	3-32VDC	Overall size	45*31*58mm(open hole 45mm)



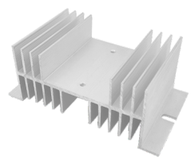


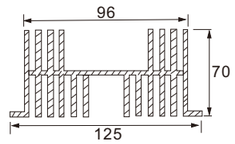
型号：MA

L× W×H (mm)

Scope of application

It is suitable for a rectangular single-phase solid state relay (radiator A-50, length 50mm, the length of the radiator isone position, A-100 length 100mm, for two.And so on)



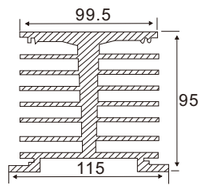


型号：MB

L× W×H （mm）

Scope of application

A rectangular single-phase solid state relay suitable for a load actual current of 25A~120A
(The radiator G-80, the length is 80mm, the length of this radiator is one position,, G
-160 length 160mm, which is two..And so on)

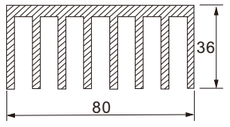


型号：MC

L× W×H （mm）

Scope of application

Suitable for a rectangular industrial-grade single-phase solid state relay with actual load less than 60A~150A(Radiator E-50, the length is 50mm, the length of this radiator is one) position, and the length of E-220 is 220mm, which is two positions.And so on)



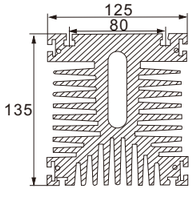
型号：MD

L× W×H (mm)

Scope of application

Applicable to a rectangular single-phase solid state relay with actual load less than 10A~100A(The length of the radiator D-120 is 120mm, the length of this radiator is one)





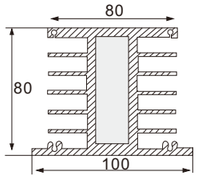
型号：ME

L× W×H (mm)

Scope of application

Applicable to a rectangular single-phase solid state relay with actual load less than 10A~100A(The length of the radiator D-120 is 120mm, the length of this radiator is one position, and the length of D-240 is 240mm, which is two positions.And so on)





型号：MF

L× W×H （mm）

Scope of application

It is suitable for a three-phase solid state relay whose actual load current (three-phase sum) is less than 60A-150A(The length of the radiator C-100 is 110mm, the length of this radiator is one position, and the length of C-220 is 220mm, which is two positions.And so on)