Plug in AC switching Solid State Relays

Features

- AC output Solid State Relay in an Industry standard EMR plug in package
- Ratings of 1A, 3A, 5A, 8A, 12Amps
- Load voltage range of 24-440 VAC, 4-240VAC
- Fits standard DIN rail & PCB mountable sockets
- LED input status indicator
- AC or DC control
- IEC Rated, CE & RoHS Compliant
- Horsepower Rated, Pilot Duty Rated

Applications

- Plastic injection molding equipment
- Packaging equipment
- Professional cooking equipment
- Lighting control
- HVAC & R

Model Explanation:

GD- series AC switching plug in type SSR relays
L - 50/60HZ, low frequency; H - 0-1000Hz, high frequency
5 - Relay Socket Code H5; 6 - Relay Socket Code H6
1 - 1 channel output; 2 - dual output; 3 triple output
K - Normal Open; B - Normal Close
01 - 1A; 03 - 3A; 05 - 5A; 08 - 8A; 12 - 12A
44 - 24-440VAC; 24 - 4-240VAC; 36 - 4-36VAC
D - DC control; A - AC control

Product Selection

Model	Switch mode	Control voltage	Operating voltage	Rated current	Relay Base	SSR size	Frequency
GDL51K-0144D	1NO	4-32VDC	24-440VAC	1A	12x29mm	38x29mm	50/60Hz
GDL51K-0344D	1NO	4-32VDC	24-440VAC	3A	12x29mm	38x29mm	50/60Hz
GDL51K-0544D	1NO	4-32VDC	24-440VAC	5A	12x29mm	38x29mm	50/60Hz
GDL51K-0144A	1NO	5-28VAC	24-440VAC	1A	12x29mm	38x29mm	50/60Hz
GDL51K-0344A	1NO	5-28VAC	24-440VAC	3A	12x29mm	38x29mm	50/60Hz
GDL51K-0544A	1NO	5-28VAC	24-440VAC	5A	12x29mm	38x29mm	50/60Hz
GDL51B-0144D	1NC	4-32VDC	24-440VAC	1A	12x29mm	38x29mm	50/60Hz
GDL51B-0344D	1NC	4-32VDC	24-440VAC	3A	12x29mm	38x29mm	50/60Hz
GDL51B-0544D	1NC	4-32VDC	24-440VAC	5A	12x29mm	38x29mm	50/60Hz
GDL51B-0144A	1NC	5-28VAC	24-440VAC	1A	12x29mm	38x29mm	50/60Hz
GDL51B-0344A	1NC	5-28VAC	24-440VAC	3A	12x29mm	38x29mm	50/60Hz
GDL51B-0544A	1NC	5-28VAC	24-440VAC	5A	12x29mm	38x29mm	50/60Hz
GDL52K-0144D	2NO	4-32VDC	24-440VAC	1A	12x29mm	38x29mm	50/60Hz
GDL52K-0344D	2NO	4-32VDC	24-440VAC	3A	12x29mm	38x29mm	50/60Hz
GDL52K-0544D	2NO	4-32VDC	24-440VAC	5A	12x29mm	38x29mm	50/60Hz
GDL52KB-0144D	1NO+1NC	4-32VDC	24-440VAC	1A	12x29mm	38x29mm	50/60Hz
GDL52KB-0344D	1NO+1NC	4-32VDC	24-440VAC	3A	12x29mm	38x29mm	50/60Hz
GDL52KB-0544D	1NO+1NC	4-32VDC	24-440VAC	5A	12x29mm	38x29mm	50/60Hz
GDL62K-0144D	2NO	4-32VDC	24-440VAC	1A	21x27mm	38x27mm	50/60Hz
GDL62K-0344D	2NO	4-32VDC	24-440VAC	3A	21x27mm	38x27mm	50/60Hz
GDL62K-0544D	2NO	4-32VDC	24-440VAC	5A	21x27mm	38x27mm	50/60Hz
GDL62K-0144A	2NO	5-28VAC	24-440VAC	1A	21x27mm	38x27mm	50/60Hz
GDL62K-0344A	2NO	5-28VAC	24-440VAC	3A	21x27mm	38x27mm	50/60Hz
GDL62K-0544A	2NO	5-28VAC	24-440VAC	5A	21x27mm	38x27mm	50/60Hz
GDL62KB-0144D	1NO+1NC	4-32VDC	24-440VAC	1A	21x27mm	38x27mm	50/60Hz
GDL62KB-0344D	1NO+1NC	4-32VDC	24-440VAC	3A	21x27mm	38x27mm	50/60Hz
GDL62KB-0544D	1NO+1NC	4-32VDC	24-440VAC	5A	21x27mm	38x27mm	50/60Hz
GDL62KB-0144A	1NO+1NC	5-28VAC	24-440VAC	1A	21x27mm	38x27mm	50/60Hz
GDL62KB-0344A	1NO+1NC	5-28VAC	24-440VAC	3A	21x27mm	38x27mm	50/60Hz
GDL62KB-0544A	1NO+1NC	5-28VAC	24-440VAC	5A	21x27mm	38x27mm	50/60Hz
GDL53K-0144D	3NO	4-32VDC	24-440VAC	1A	12x29mm	38x29mm	50/60Hz
GDL53K-0344D	3NO	4-32VDC	24-440VAC	3A	12x29mm	38x29mm	50/60Hz
GDL63K-0144D	3NO	4-32VDC	24-440VAC	1A	12x29mm	38x29mm	50/60Hz
GDL63K-0344D	3NO	4-32VDC	24-440VAC	3A	12x29mm	38x29mm	50/60Hz
GDL63K-0144A	3NO	5-28VAC	24-440VAC	1A	12x29mm	38x29mm	50/60Hz
GDL63K-0344A	3NO	5-28VAC	24-440VAC	3A	12x29mm	38x29mm	50/60Hz

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AC Solid State Relays 1NC series, 1NO series

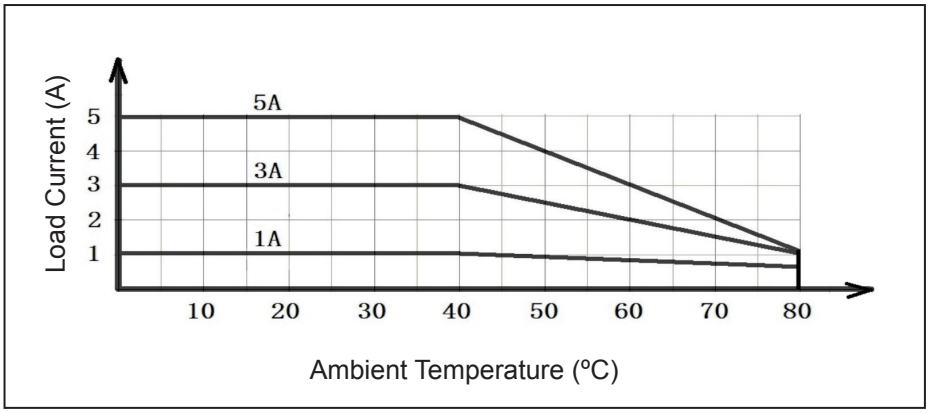
Features

- Optical isolation between input and output circuits
- Control signal to interface with TTL and PLC logic
- A set of contactless switch outputs; No spark or arc pulling phenomenon when making or breaking
- Solid packaging, shockproof, moisture-proof and anti-corrosion, stable and reliable operation
- Plug-in structure, easy to install. It can directly replace small current relays
- The product is mainly used for intermediate relays in industrial automation control and small power appliances such as contactless switches for small motors, solenoid valves, power supplies, etc

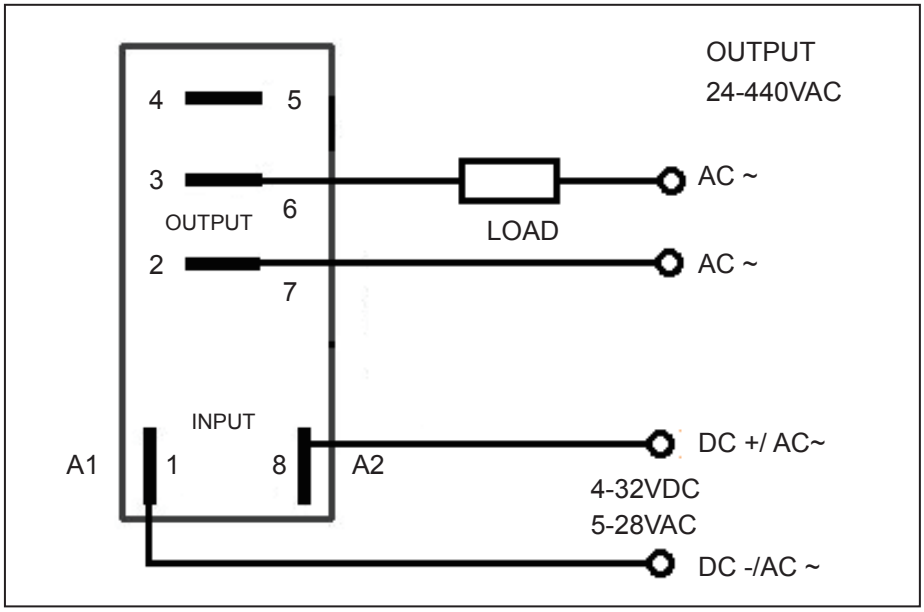
Specifications

Description		GDL51K...	GDL51B...
Input Specifications	Control Voltage	4-32VDC; 5-28VAC	
	Control Current	6-18mA	
	Turn-Off Voltage	≤1.5VDC	
	Input Current	6mA	
	Input Status Indicator	LED	
Output Specifications	Operating Voltage	24-440VAC	
	Load Current	1A; 3A; 5A	
	On State Voltage Drop	≤1.5V	
	Off State dv/dt (min.)	≥850V	
	Off State Leakage Current	≤0.1mA	
	Turn-on Time/Turn-off Time	10+10ms	
	Switch Static	1NO	1NC
General Specifications	Dielectric Strength	≥2000V	
	Insulation Resistance	≥100mΩ	
	Ambient Temperature	-30~80°C	
	Power Frequency	50/60Hz	
	Load Current Safety Factor	Take 1:2 for resistive load 1:2.5 for inductive load	
	Dimensions	L:29x:W:13xH38 (mm) (H5-5 pin)	

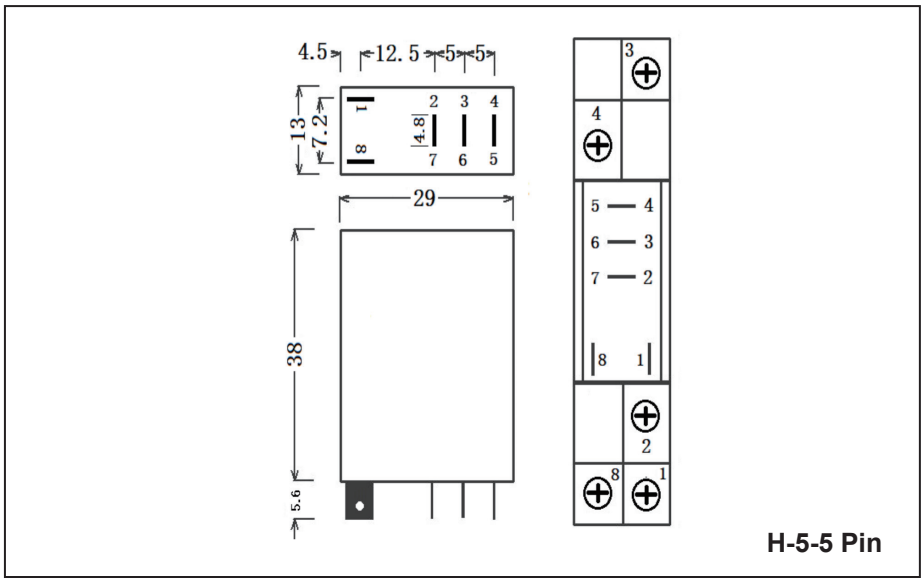
Thermal Derate Information



Wiring Diagram



Dimensions (mm)



Notes for Product Selection:

1. According to the different nature of the load, the current level of the selected product is also different. Usually, users should choose 1.5-2 times of the load current for resistive loads and 1.8-2.5 times of the load current for inductive or capacitive loads.
2. According to the relationship between the load current and the ambient temperature, when the working environment temperature is high or the heat dissipation condition is not good, users should increase the current capacity.
3. To prevent damage to the solid-state switch chip after a load short circuit, it is recommended to connect the corresponding fast fuse in series in the load circuit.
4. This model is naturally cooling. When the shell temperature exceeds 80 ° C, a fan needs to be added for cooling.

AC Solid State Relays 2NO series, 1NO+1NC series

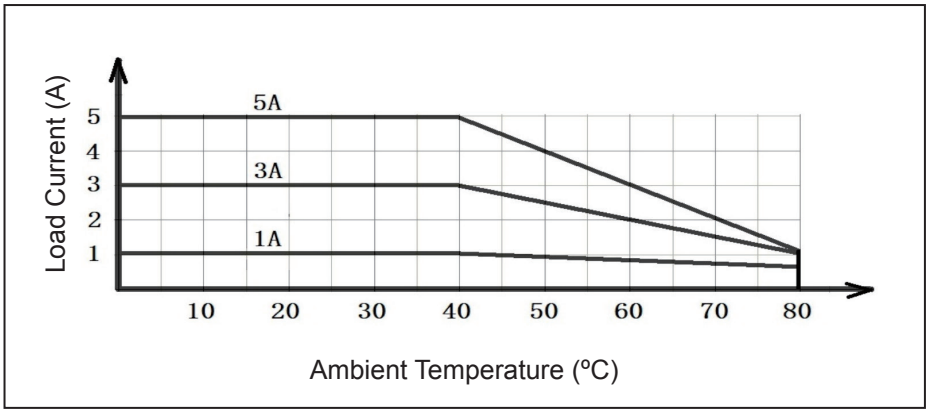
Features

- Optical isolation between input and output circuits
- Control signal to interface with TTL and PLC logic
- Two set of contactless switch outputs; No spark or arc pulling phenomenon when making or breaking
- Solid packaging, shockproof, moisture-proof and anti-corrosion, stable and reliable operation
- Plug-in structure, easy to install. It can directly replace small current relays
- The product is mainly used for intermediate relays in industrial automation control and small power appliances such as contactless switches for small motors, solenoid valves, power supplies, etc

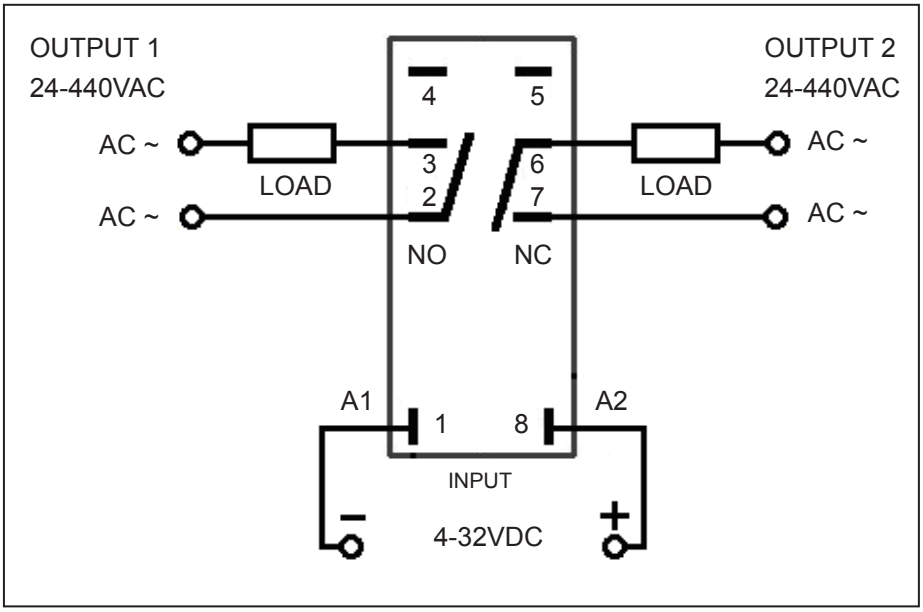
Specifications

Description		GDL52K...	GDL52KB...
Input Specifications	Control Voltage	4-32VDC	
	Control Current	6-18mA	
	Turn-Off Voltage	≤1.5VDC	
	Input Current	6mA	
	Input Status Indicator	LED	
Output Specifications	Operating Voltage	24-440VAC	
	Load Current	1A; 3A; 5A	
	On State Voltage Drop	≤1.5V	
	Off State dv/dt (min.)	≥850V	
	Off State Leakage Current	≤0.1mA	
	Turn-on Time/Turn-off Time	10+10ms	
	Switch Static	2NO	1NO+1NC
General Specifications	Dielectric Strength	≥2500V	
	Insulation Resistance	≥100mΩ	
	Ambient Temperature	-30~80°C	
	Power Frequency	50/60Hz	
	Load Current Safety Factor	Take 1:2 for resistive load 1:2.5 for inductive load	
	Dimensions	L:29x:W:13xH38 (mm) (H5-8A pin)(H5-8B pin)	

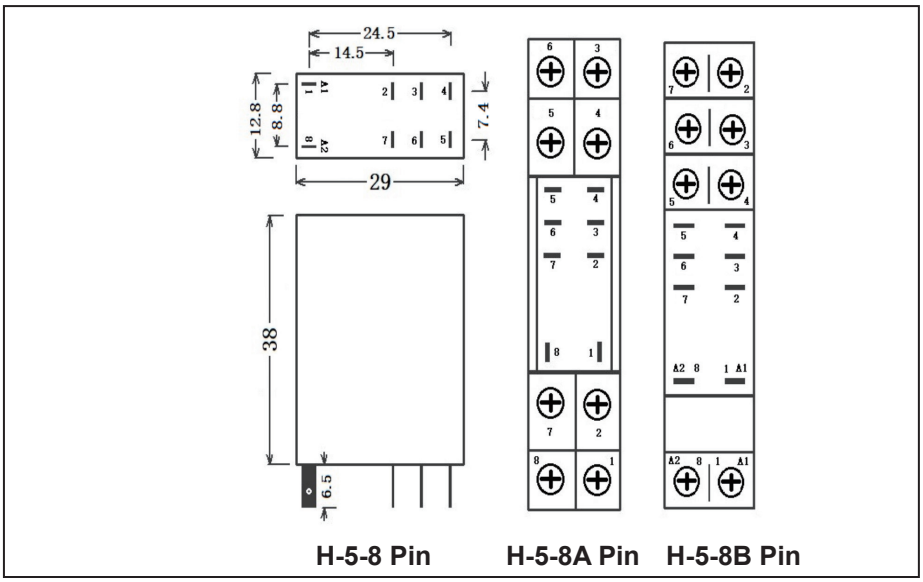
Thermal Derate Information



Wiring Diagram



Dimensions (mm)



Notes for Product Selection:

1. According to the different nature of the load, the current level of the selected product is also different. Usually, users should choose 1.5-2 times of the load current for resistive loads and 1.8-2.5 times of the load current for inductive or capacitive loads.
2. According to the relationship between the load current and the ambient temperature, when the working environment temperature is high or the heat dissipation condition is not good, users should increase the current capacity.
3. To prevent damage to the solid-state switch chip after a load short circuit, it is recommended to connect the corresponding fast fuse in series in the load circuit.
4. This model is naturally cooling. When the shell temperature exceeds 80 ° C, a fan needs to be added for cooling.

AC Solid State Relays 2NO series, 1NO+1NC series

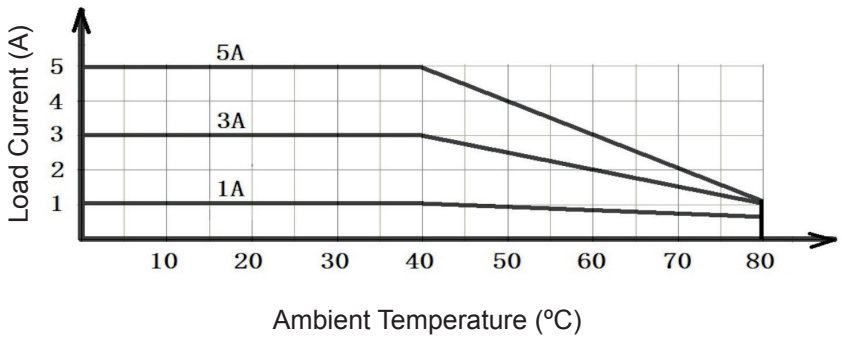
Features

- Optical isolation between input and output circuits
- Control signal to interface with TTL and PLC logic
- Two set of contactless switch outputs; No spark or arc pulling phenomenon when making or breaking
- Solid packaging, shockproof, moisture-proof and anti-corrosion, stable and reliable operation
- Plug-in structure, easy to install. It can directly replace small current relays
- The product is mainly used for intermediate relays in industrial automation control and small power appliances such as contactless switches for small motors, solenoid valves, power supplies, etc

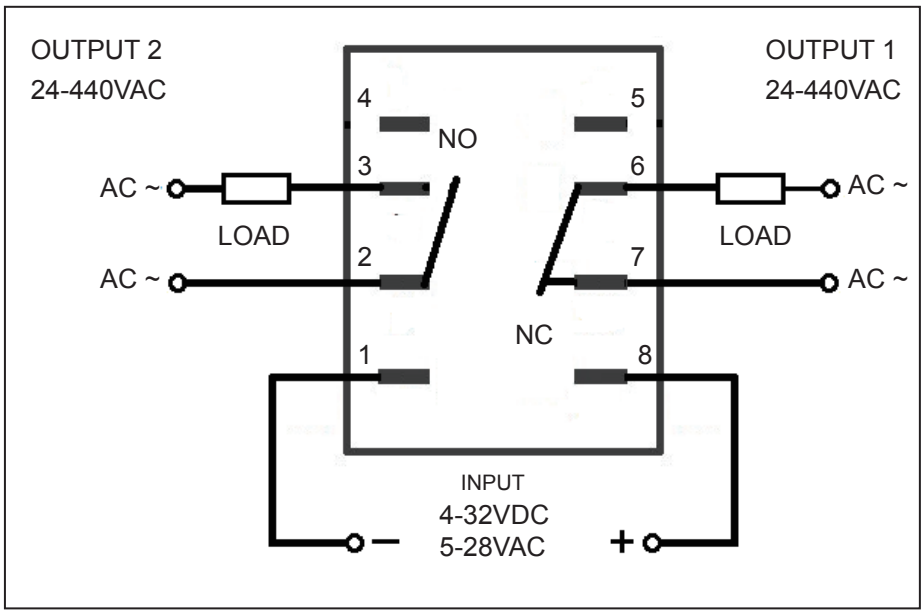
Specifications

Description		GDL62K...	GDL62KB...
Input Specifications	Control Voltage	4-32VDC; 5-28VAC	
	Control Current	6-18mA	
	Turn-Off Voltage	≤1.5VDC	
	Input Current	6mA	
	Input Status Indicator	LED	
Output Specifications	Operating Voltage	24-440VAC	
	Load Current	1A; 3A; 5A	
	On State Voltage Drop	≤1.5V	
	Off State dv/dt (min.)	≥850V	
	Off State Leakage Current	≤0.1mA	
	Turn-on Time/Turn-off Time	10+10ms	
	Switch Static	2NO	1NO+1NC
General Specifications	Dielectric Strength	≥2000V	
	Insulation Resistance	≥100mΩ	
	Ambient Temperature	-30~80°C	
	Power Frequency	50/60Hz	
	Load Current Safety Factor	Take 1:2 for resistive load 1:2.5 for inductive load	
	Dimensions	L:27x:W:21xH38 (mm) (H6-8A pin)(H6-8B pin)	

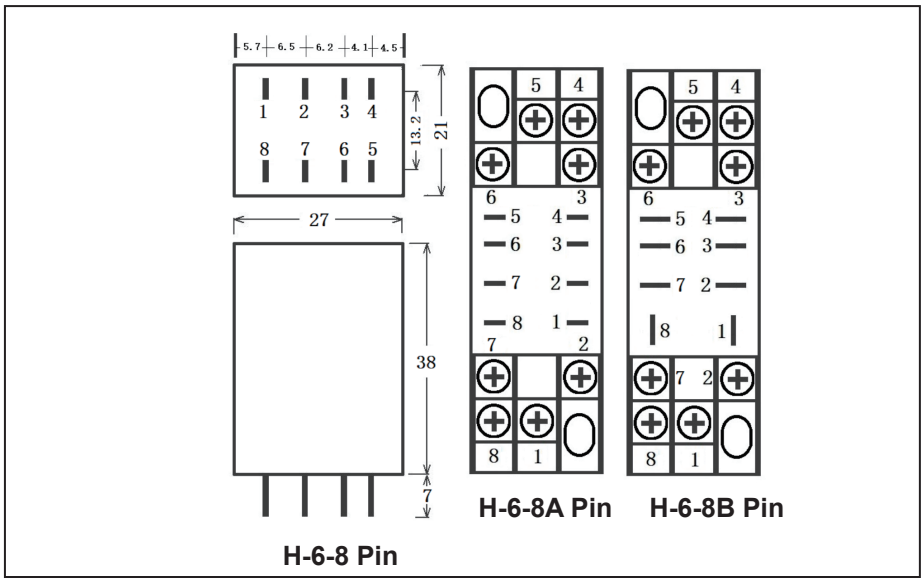
Thermal Derate Information



Wiring Diagram



Dimensions (mm)



Notes for Product Selection:

1. According to the different nature of the load, the current level of the selected product is also different. Usually, users should choose 1.5-2 times of the load current for resistive loads and 1.8-2.5 times of the load current for inductive or capacitive loads.
2. According to the relationship between the load current and the ambient temperature, when the working environment temperature is high or the heat dissipation condition is not good, users should increase the current capacity.
3. To prevent damage to the solid-state switch chip after a load short circuit, it is recommended to connect the corresponding fast fuse in series in the load circuit.
4. This model is naturally cooling. When the shell temperature exceeds 80 ° C, a fan needs to be added for cooling.

AC Solid State Relays 3NO series

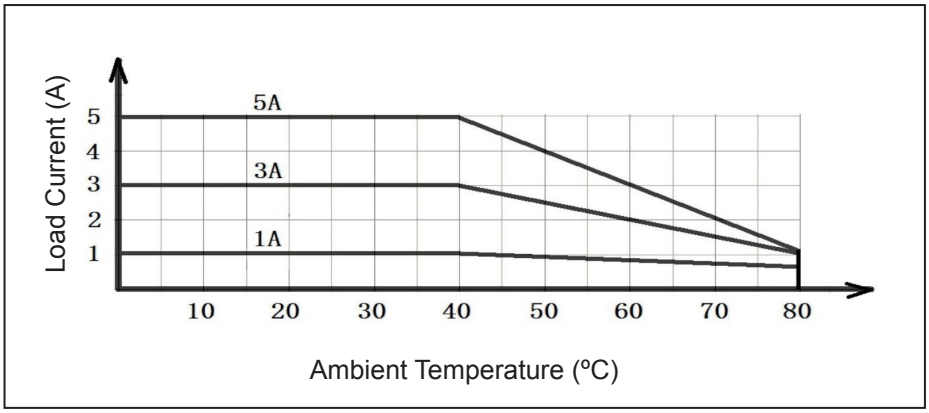
Features

- Optical isolation between input and output circuits
- Control signal to interface with TTL and PLC logic
- Three set of contactless switch outputs; No spark or arc pulling phenomenon when making or breaking
- Solid packaging, shockproof, moisture-proof and anti-corrosion, stable and reliable operation
- Plug-in structure, easy to install. It can directly replace small current relays
- The product is mainly used for intermediate relays in industrial automation control and small power appliances such as contactless switches for small motors, solenoid valves, power supplies, etc

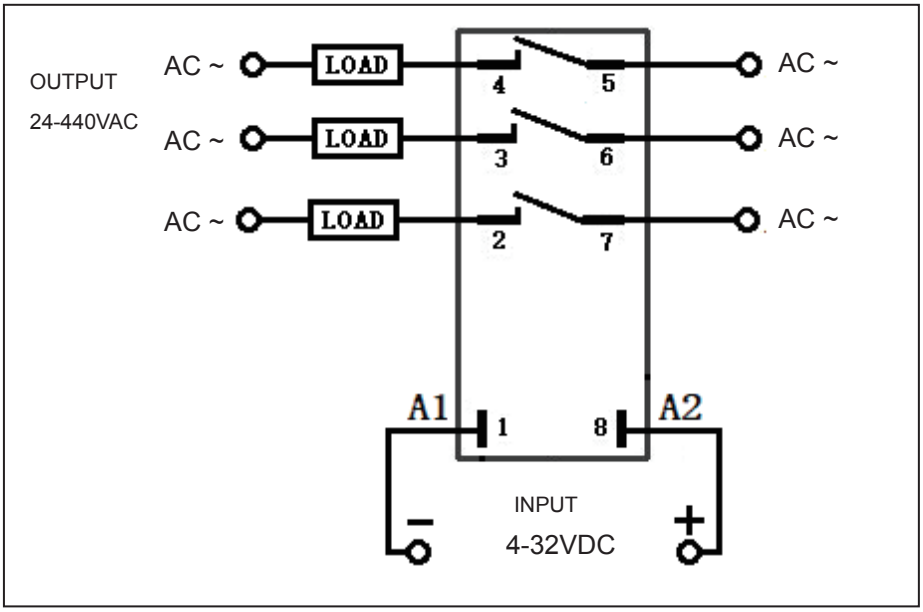
Specifications

Description		GDL53K...	GDL63K...
Input Specifications	Control Voltage	4-32VDC	4-32VDC; 5-28VAC
	Control Current	6-18mA	
	Turn-Off Voltage	≤1.5VDC	
	Input Current	6mA	
	Input Status Indicator	LED	
Output Specifications	Operating Voltage	24-440VAC	
	Load Current	1A; 3A	
	On State Voltage Drop	≤1.5V	
	Off State dv/dt (min.)	≥850V	
	Off State Leakage Current	≤0.1mA	
	Turn-on Time/Turn-off Time	10+10ms	
	Switch Static	3NO	3NO
General Specifications	Dielectric Strength	≥2000V	
	Insulation Resistance	≥100mΩ	
	Ambient Temperature	-30~80°C	
	Power Frequency	50/60Hz	
	Load Current Safety Factor	Take 1:2 for resistive load 1:2.5 for inductive load	
	Dimensions	L:29x:W:13xH38 (mm) (H5-8A pin)	L:29x:W:21xH38 (mm) (H6-8B pin)

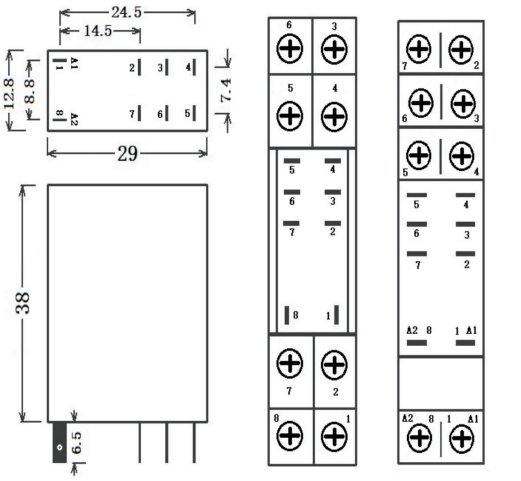
Thermal Derate Information



Wiring Diagram

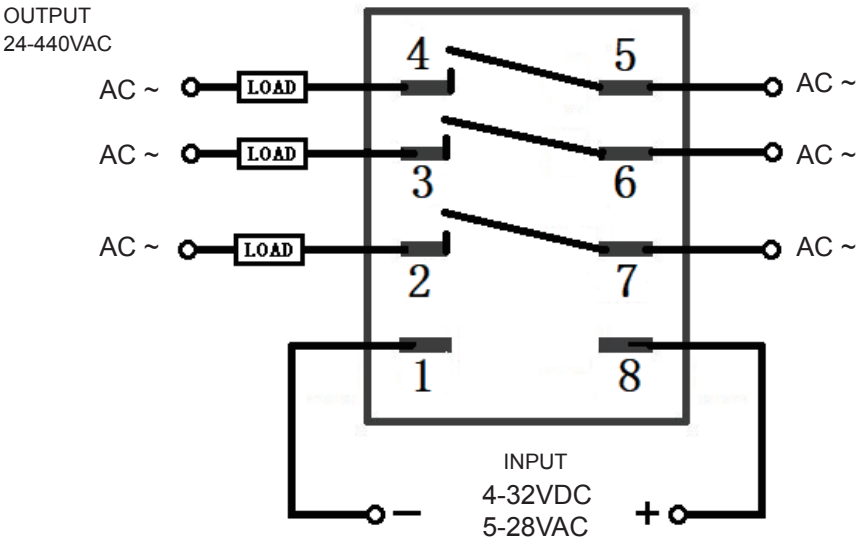


Dimensions (mm)

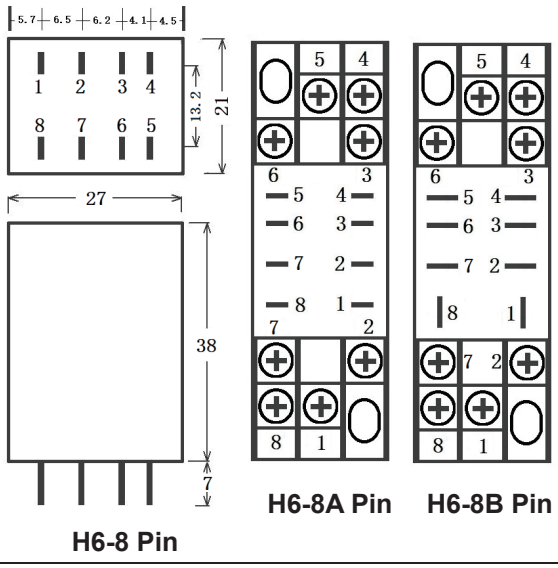


H5-8 Pin H5-8A Pin H5-8B Pin

Wiring Diagram



Dimensions (mm)



Notes for Product Selection:

1. According to the different nature of the load, the current level of the selected product is also different. Usually, users should choose 1.5-2 times of the load current for resistive loads and 1.8-2.5 times of the load current for inductive or capacitive loads.
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