

Potential applications:

Widely used in lighting control, heating control, office appliances,

Fire protection system and other automation fields are suitable for chemical, coal, ceramics

For explosion - proof, dust - proof, corrosion - proof and other extreme harsh environment.

- Input 4 to 32 VDC or 90 to 250 VAC
- Clamshell bolt protection for easier maintenance
- LED input status indicator light
- Ac/dc control optional
- Compliance with CE RoHS


The product selection

Specific models listed in the table below shall prevail

describe	model	Load voltage	Load current
random	BSD12044D032	40—440VAC	120A
zero conduction	BSD12044D032Z	40—440VAC	120A
random	BSD12044A250	40—440VAC	120A
zero conduction	BSD12044A250Z	40—440VAC	120A

Technical parameters
input parameters:

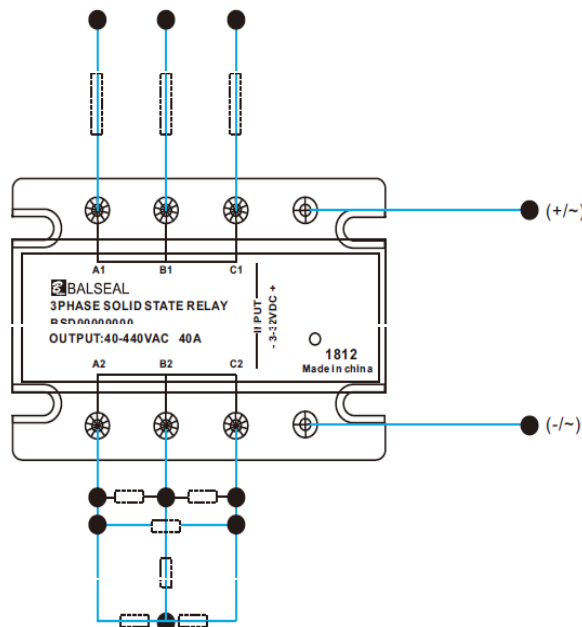
Input voltage range	DC 3~32VDC	AC 90~250VAC
Input current range	DC 32VDC	
Make sure the voltage is on	DC 6~25mA	AC 5~30mA
Make sure to turn off the voltage	DC 3VDC	AC 90VAC
Reverse voltage	DC 1.5VDC	AC 10VAC

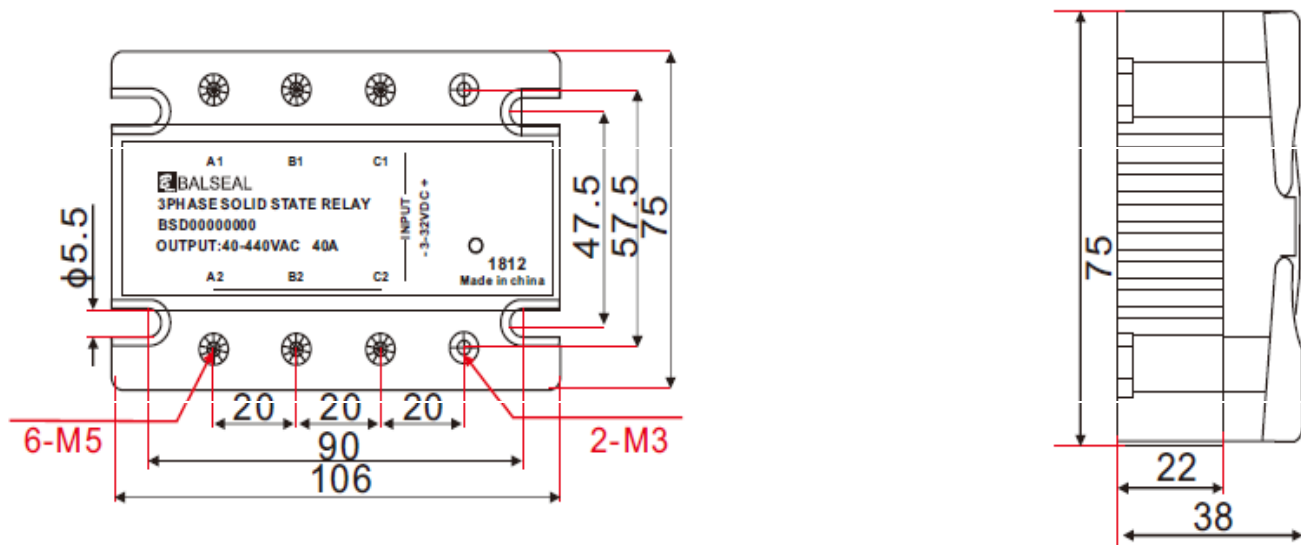
Output parameters:

Rated load voltage	24:24~240VAC 44:40~440VAC
Rated load current	120A
Transient peak withstand	24:600VAC 44:900VAC
Off state leakage current	AC $\leq 10\text{mA}$
State pressure drop	AC $\leq 1.5\text{VAC}$
On and off time	$\leq 10\text{ms}$

other parameters:

Medium pressure	$\geq 2500\text{VAC}$
Insulation resistance	500M Ω 500VDC
Housing material safety gauge	UL94-V0
Substrate materials	aluminum
Working temperature	- 30°C~80°C
Storage temperature	- 30°C~125°C
Maximum operating humidity	85% no condensation
installation	Panel bolt mounting
weight of the	360~400g

BSD AC output Series


BSD AC output Series

Selection Guide

1. There is a RC circuit inside the output end of solid state relay, which will have a small load with leakage current $\leq 10\text{mA}$. It is normal to have conduction or output voltage phenomenon.
2. The solid state is caused by the pressure drop of the output thyristor $\leq 1.5\text{v}$ during conduction. Relay heating, need to add a radiator, at the same time in the cabinet installation to leave enough space.
3. The output voltage and current identified by the solid state relay are rated voltage and rated current. In the selection to reduce the use of the amount. Different load reduction coefficient is different, especially sensibility. The load should also be voltage-sensitive in parallel with the output cathode protection.

table

Load current	Radiator type
BSA 20A following	HH0034
BSA 40A following	HH0061
BSA 60A following	HH0062
BSA 80A following	HH0063
BSD 20A following	HH0035
BSD 30A following	HH0034
BSD 40A following	HH0036
BSD 80A following	HH0037
BSD 100A following	HH0038
BSD 200A following	HH0039

Load derating

The load type	Pure resistance	Heating wire	Incandescent lamp	transformer
Power factor	1.0	0.7	0.5	0.4
magnification	1.5/ times	2.0/ times	2.5/ times	4.0/ times

The load type	electromagnet	Single phase motor	three-phase motor	Capacitance for
Power factor	0.5	0.2	0.3	surge
magnification	4.0/ times	7.0/ times	6.0/ times	10.0/ times

Attention

Input working condition

1. Pay attention to the working voltage range and the anode and cathode.
2. In order to ensure the normal operation of the solid state relay, the input current should be increased when the ambient temperature is low. The input current should be reduced when the temperature is high.
3. When driving SSR directly with integrated circuit, there should be enough carrying capacity and as low as possible 0 level output.

Output working condition

1. to ensure the reliable operation of SSR, the limit parameters of SSR must be correctly used and taken Necessary protective measures.
2. Peak voltage selection: inductance load: 2-3 times of line voltage (effective value), Pure resistance load: 1-2 times of line voltage (effective value)
3. Selection of piezoresistor: the nominal working voltage of piezoresistor is based on SSR 1.8-2 times of the effective value is selected.
- 4 products with operating current below 5A should be installed beside the cooling window with good ventilation as far as possible. Or where cool winds blow.
5. Products with working current of more than 10A must be equipped with radiators, relays and radiators Add thermal conductive silicon grease to good heat dissipation, radiator surface temperature close to 60°C forced air cooling.
6. In order to avoid the temperature rise of solid-state relay exceeding the allowable value, heat dissipation effect and installation position should be fully considered in the design and application. When two or more solid-state relays are installed side by side, proper large spacing should be kept.

Matters needing attention

- all parameters at 25 C, unless otherwise specified.
- radiators must be installed for loads above 10A.
- fan or water cooling must be applied above 80 C

For more information, please contact us

Product certification

