BALSEAL

BSX Single-Phase DC Output Solid State Relay and Heatsink

BSX DC output Series

SSR 10 - 40Amp

- Rated load current 10A to 40A
- Top-mounted bolt protection for easier maintenance
- Equipped with LED input status indicator
- AC/DC control optional
- CE 、 RoHS



- The BSX series solid-state relays feature a flame-retardant engineering plastic housing, epoxy resin potting, and threaded terminal connections. They boast high structural strength, impact resistance, vibration resistance, and low input drive current, facilitating easy interface with computer terminals and digital control circuits. They are widely used in automation control fields such as petrochemical equipment, pharmaceutical machinery, food processing machinery, packaging machinery, plastics machinery, CNC machine tools, and entertainment facilities.

- They are particularly suitable for harsh environments requiring corrosion, humidity, dust prevention, explosion protection, and frequent switching applications.

The main application

Heating systems

Injection molding machines; Furnaces; Power supply and distribution systems; Air conditioning; Textile machinery; Household heaters; Infrared heating; Thermoforming dryers; etc.



Lighting

Public lighting

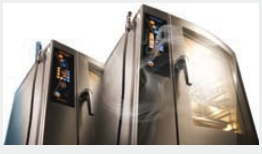
Cinema lighting

Theater lighting

Airport runway lighting

Street lighting

etc...



Control

PLC interface

Heating element control

Solenoid valve

Contactor coil

Sensor optocoupler

etc...



Other applications

Transformer starting,

Power factor correction,

Uninterruptible power supplies, Power switches,

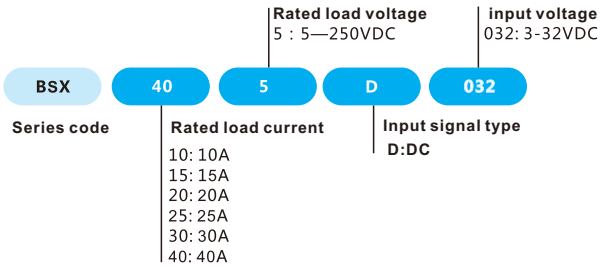
Capacitor control,

etc.



Model listing

Valid product listings



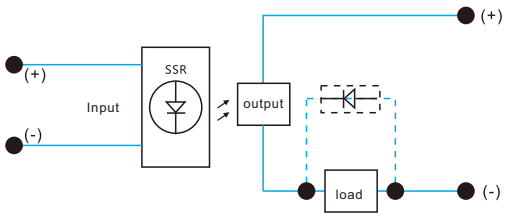
The main application

Output parameters	10A	15A	20A	25A	30A	40A
Rated load voltage	5:5~250VDC	5:5~250VDC	5:5~250VDC	5:5~250VDC	5:5~250VDC	5:5~250VDC
Rated load current	10A	15A	20A	25A	30A	40A
Transient peak withstand voltage	400VDC	400VDC	400VDC	400VDC	400VDC	400VDC
Off-state leakage current	DC ≤2mA	DC ≤2mA	DC ≤2mA	DC ≤2mA	DC ≤2mA	DC ≤5mA
On-state pressure drop	DC ≤1.5VDC	DC ≤1.5VDC	DC ≤1.5VDC	DC ≤1.5VDC	DC ≤1.5VDC	DC ≤1.5VDC
On-off time	≤10ms	≤10ms	≤10ms	≤10ms	≤10ms	≤10ms
Input voltage range	DC 3~32VDC	DC 3~32VDC	DC 3~32VDC	DC 3~32VDC	DC 3~32VDC	DC 3~32VDC
Control current	DC 4-12mA	DC 4-12mA	DC 4-12mA	DC 4-12mA	DC 4-12mA	DC 4-12mA
Power-off time	DC 4-12mA					

Other parameters

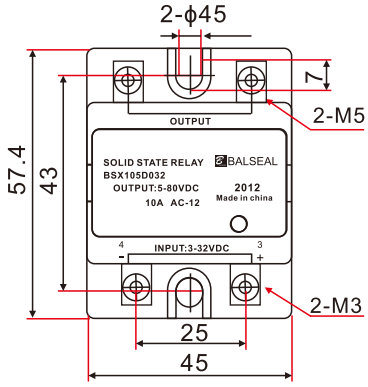
Medium pressure resistance	≥2500VAC
Insulation resistance	500MΩ 500VDC
Safety regulations for casing materials	UL94-V0
Substrate material	aluminum
working temperature	-30℃~80℃
storage temperature	-30℃~125℃
Maximum working humidity	85% No condensation
Installation method	No condensation
weight	90~105g

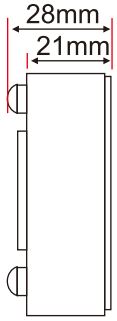
BSX**DC output Series**



DC controlled DC

BSX **DC output Series**





Precautions

Precautions: (A) All parameters are valid at 25°C unless otherwise specified.

(B) Loads of 10A-25A require a heatsink; loads above 40A require fan cooling or water cooling.

(C) Loads above 80°C require fan cooling or water cooling.

(D) When using inductive loads, be sure to connect a varistor in parallel at the output terminal, with a value of 1.6-1.9 times the load voltage.

For more information, please refer to the datasheet.