Solid State Relay

SA-300-Z series

(SA-320-Z)

(SA-340-Z)

Enables your own system to be constructed with outstanding functionality at little expense.

Features

- Economically priced
- Built-in varistor for absorbing external power surges
- Easy viewing of action by LED display
- High insulation, dielectric strength structure: Ranging between input and output: 4,000V
- Wide range of input power supply: 4 to 32V DC

Applications

1. Molding machinery (Heater control)
2. Constant temperature ovens (Heater control)
3. Printing machinery (Heater control)
4. Machine tools (Motor control)

■ Specifications

Rated load current : 20A (SA-320-Z), 40A (SA-340-Z)
Load supply voltage : 75 to 250V AC, 45 to 65Hz
Operation input voltage : 4 to 32V DC
Max. input current : 20mA or less

Maximum rating

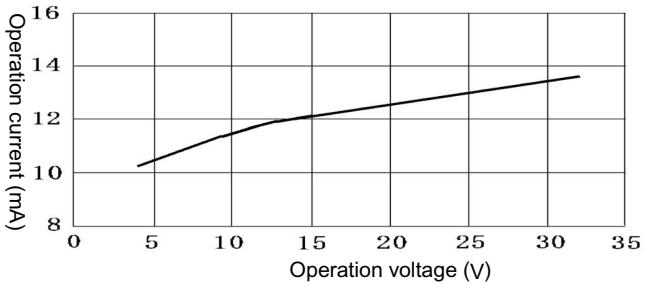
Item		Condition	Specification
Output	Surge ON current	1 cycle, No repeat	200A (SA-320-Z) 400A (SA-340-Z)
	Main circuit voltage		250V
Input, Output (common)	Ambient temp.	No freezing and condensing at low temperature	−20〜80℃
	Storage temp.		−25〜85℃
	Dielectric strength	Input-Output: 4000V AC	For 1 minute
		Input-Output-Case: 2500V AC	For 1 minute

Electric characteristics

Item		Condition	Specification
Output	Leaking current when open		10mA or less
	On voltage when closed	When maximum current is applied to the load	1.6V or less
	Minimum load current		100mA
	Response time		Max. 1/2 cycle + 1ms
Input, Output (common)	Insulation resistance	DC 500V Megger, Between input and output	100 MΩ or more
	Return voltage		1V or more

Control system : Zero volt switching system
Weight : Approx. 90g
Accessories : Instruction manual

■ Characteristic of operation voltage and current



(Common to SA-320-Z, SA-340-Z)

■ Mounting

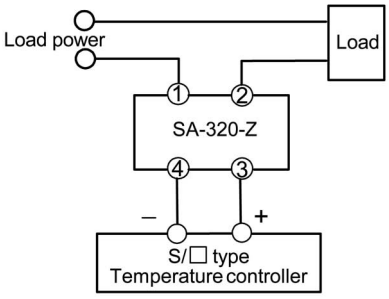
Tightening torque Unit : kg • cm

Item	Screw	Rating	
		Standard	Max.
Torque for mounting	M4 screw	10	15
Torque for terminals	M4 screw	10	15

When mounting to the chassis or heat sink, use qualified screws, and tighten them with a specified torque.

(Common to SA-320-Z, SA-340-Z)

■ Wiring



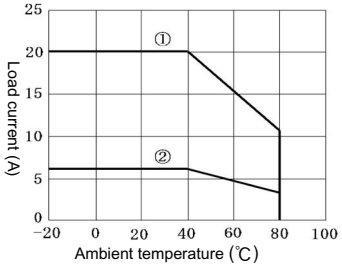
■ Ambient temperature and load current

1) SA-320-Z

①When using the SA-320-Z after mounted to the HS-320 type heat sink

②When the heat sink is not used.

The SA-320-Z can be used at an ambient temperature within the curved lines.

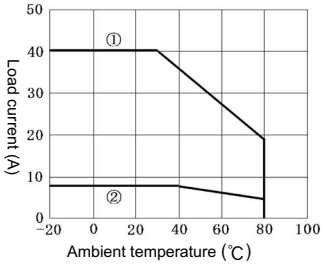


2) SA-340-Z

①When using the SA-340-Z after mounted to the HS-340 type heat sink

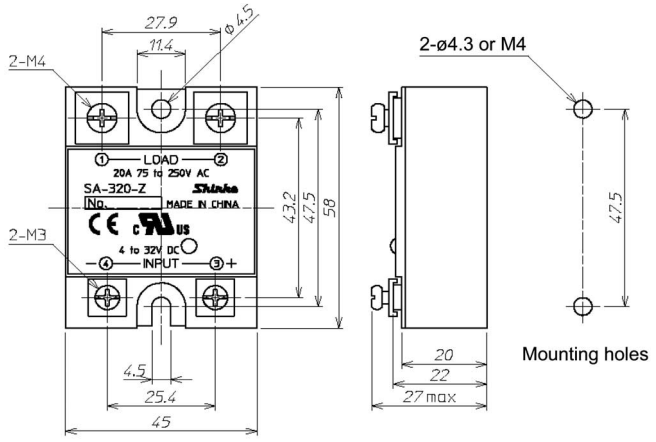
②When the heat sink is not used.

The SA-340-Z can be used at an ambient temperature within the curved lines.

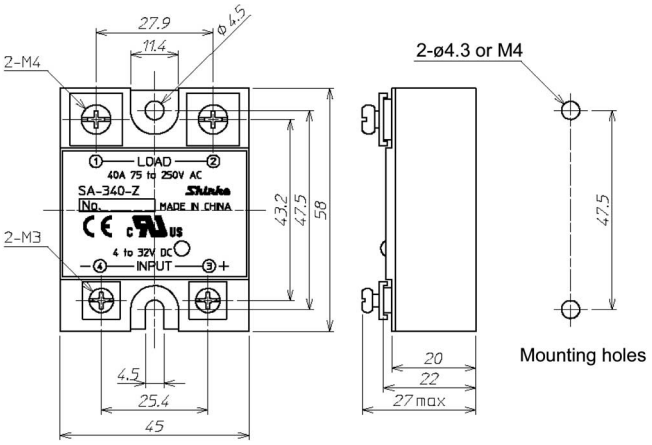


■ External dimensions

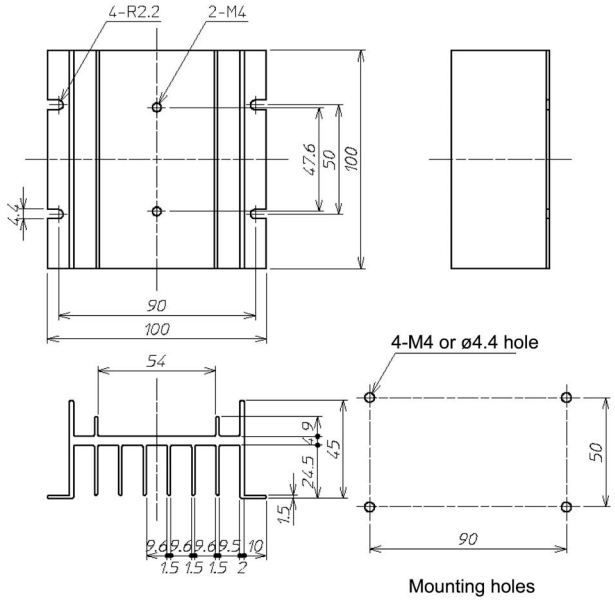
・SA-320-Z



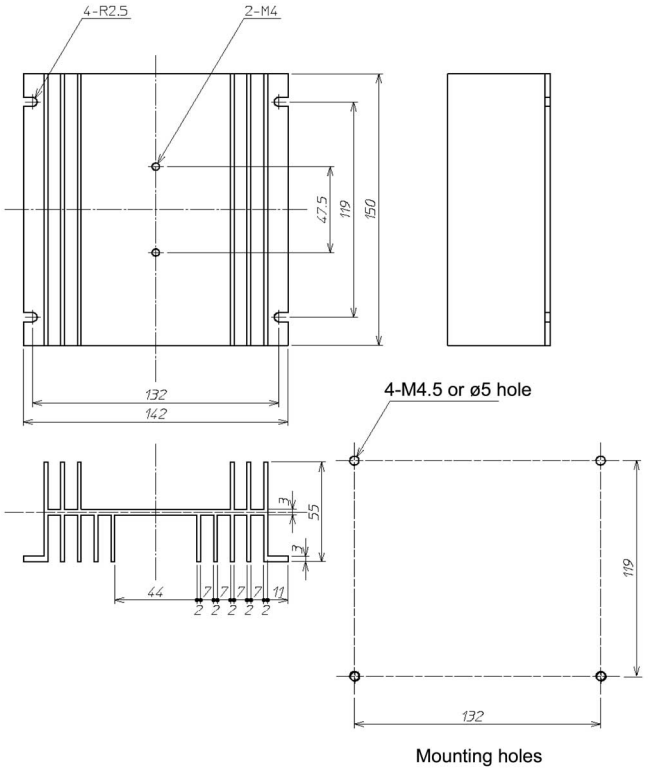
・SA-340-Z



・HS-320 (Heat sink for the SA-320-Z)



・HS-340 (Heat sink for the SA-340-Z)



⚠ SAFETY PRECAUTIONS

- To ensure safe and correct use, thoroughly read and understand the manual before using this instrument.
- This instrument is intended to be used for industrial machinery, machine tools and measuring equipment. Verify correct usage after consulting purpose of use with our agency or main office. (Never use this instrument for medical purposes with which human lives are involved.)
- External protection devices must be installed, as malfunction of this product could result in serious damage to the system or injury to personnel. Also proper periodic maintenance is required.
- This instrument must be used under the conditions and environment described in the manual. Shinko Technos Co., Ltd. does not accept liability for any injury, loss of life or damage occurring due to the instrument being used under conditions not otherwise stated in the manual.

Caution with respect to Export Trade Control Ordinance

To avoid this instrument from being used as a component in, or as being utilized in the manufacture of weapons of mass destruction (i.e. military applications, military equipment, etc.), please investigate the end users and the final use of this instrument.

ISO 9001 KEMA CERT. No.60033

・This catalog is as of September 2004, and specifications are subject to change without notice.
・When inquiring, please consult our agency or the shop where you purchased the unit.

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