

Solid State Relay

Model: **SA-500**

■ **Name, Model**

Name: Solid state relay
 Model: SA-525-Z (25A)
 SA-540-Z (40A)

■ **Rating**

Rating (at 20°C of ambient temperature):

Model		SA-525-Z	SA-540-Z
Input side	Control voltage	4 to 32V DC	
	Input current	20mA or less	
	Recovery voltage	1V or more	
Output side	Max. load current	25A	40A
	Load voltage	75 to 250V AC	45 to 65Hz
	Surge-on current *1	250A	400A
	"OFF-state" leakage current	10mA or less (60Hz)	
	"ON-state" voltage drop	1.6V or less (When applying maximum load current)	
	Min. load current *2	100mA	

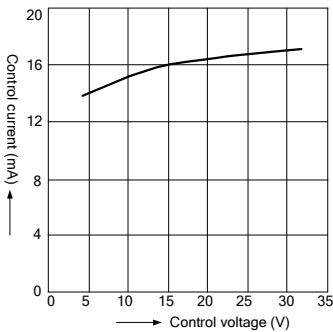
*1: 60Hz 1 cycle

*2: When load current is lower than the rated load current, use a dummy resistor so that the load current can become 100mA or more.

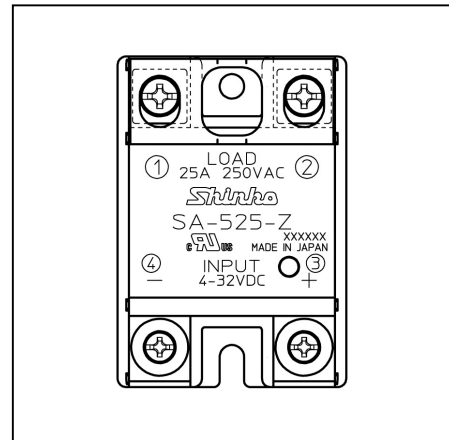
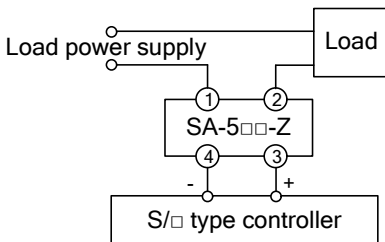
■ **Performance:**

Model	SA-525-Z	SA-540-Z	Description
Dielectric strength	Input-output: 4000V AC Input-case: 2500V AC		For 1 minute
Operating temperature	-20 to 80°C		No icing and non-condensing at low temperature
Storage temperature	-20 to 85°C		

■ **Characteristics of Control Voltage, Control Current**

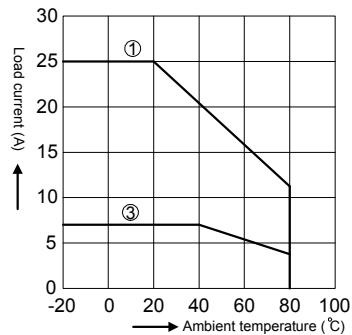


■ **Wiring**

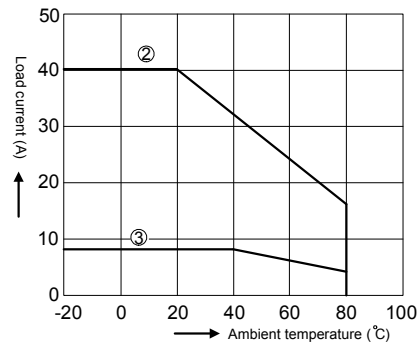


■ **Ambient Temperature & Load Current**

25A type (SA-525-Z)



40A Type (SA-540-Z)



- ① When used by mounting to the heat sink (model: HS-320)
- ② When used by mounting to the heat sink (model: HS-340)
- ③ When the heat sink is not used

The SA-500 can be used at an ambient temperature within the curved line.

■ **Other**

Control method : Zero voltage switching system

Weight: Approx. 70 g

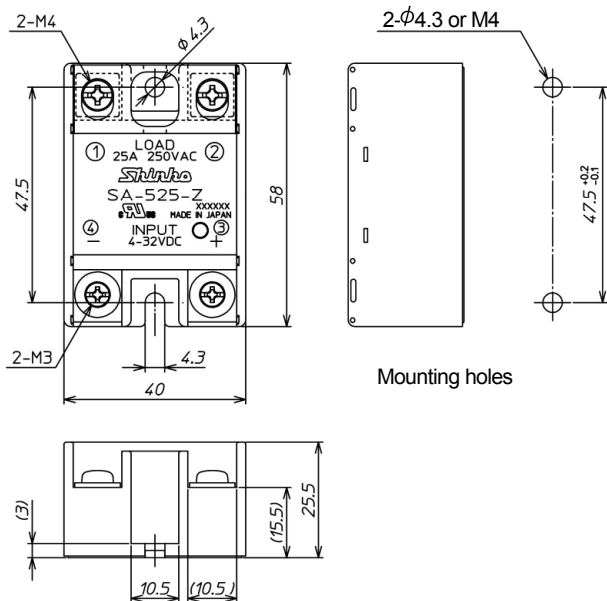
Accessories included: Instruction manual, 1 copy

Accessories sold separately: Heat sink HS-320 (for SA-525-Z)

HS-340 (for SA-540-Z)

■ External Dimensions (Scale: mm)

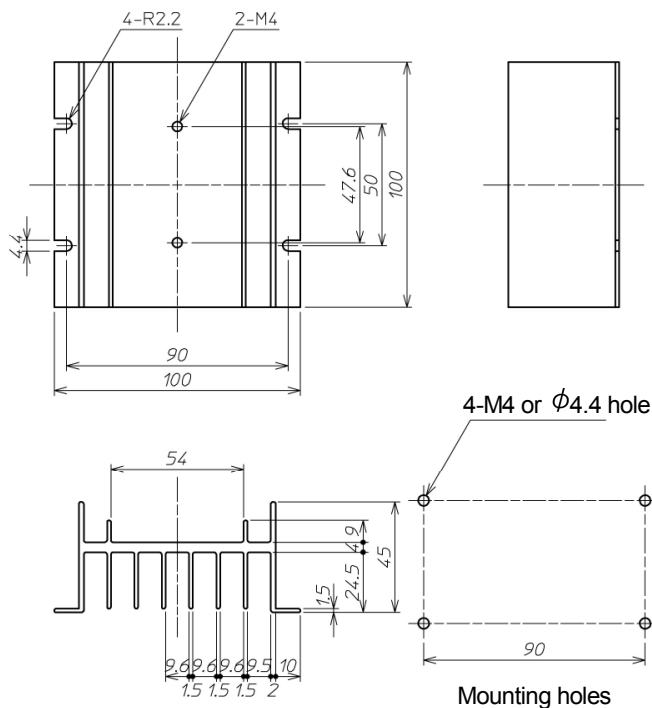
40 × 58 × 25.5mm (W x H x D) (SA-525-Z, SA-540-Z: The same size)



Tightening Torque

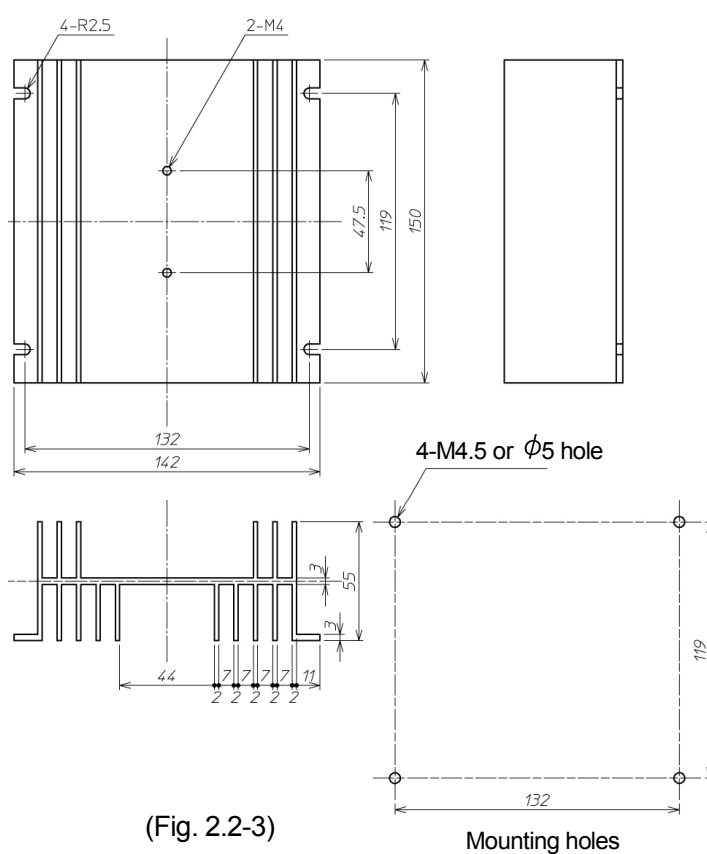
		Screw	Specified Torque
Screw tightening torque	Input side	M3 screw	0.5N·m
	Output side	M4 screw	1.0N·m

Heat Sink HS-320 (for SA-525-Z) (sold separately)



(Fig. 2.2-2)

Heat Sink HS-340 (for SA-540-Z) (sold separately)



(Fig. 2.2-3)