Solid State Relay

SA-400 series



■ Model

SA - 4 🗆 - Z			
Rated current	20	-	20A
	40	:	40A
Control		Ζ	Zero-cross

Main unit + Heat sink + Mounting brackets for DIN rail provided

■Standard specifications

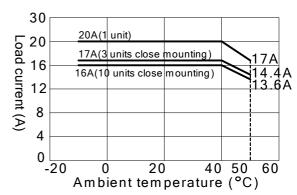
Rated input voltage	5 to 24V DC	
Input current	7mA or less (at 25°ℂ)	
consumption	400 +- 040 / 40	
Rated load voltage	100 to 240V AC	
Surge ON current	220A (SA-420-Z)	
tolerance	440A (SA-440-Z)	
Applicable load	Resistive load	
Operating time	1/2 cycle of the load current + 1ms or less	
Restoration time	1/2 cycle of the load current + 1ms or less	
Output ON voltage drop	1.6V (RMS) or less (when applying max. load)	
Leak current	10mA or less (at 200V AC)	
Insulation resistance	100M Ω or more (at 500V DC):	
	Between Input/Load terminals,	
	Between terminals – Heat sink	
	3000V AC for 1 minute	
Dielectric strength	Between Input/Load terminals,	
	Between terminals – Heat sink	
Storage	-20 to 60°C	
temperature	(No icing, non-condensing)	
Operating temperature	-10 to 50℃	
	(No icing, non-condensing)	
	Please refer to the section "Load	
	current and ambient temperature characteristics".	
Operating humidity	45 to 85%RH	
	280g (SA-420-Z)	
Weight	380g (SA-440-Z)	

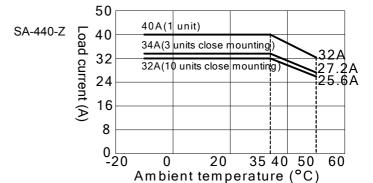
■ Features

- Slimline
- Both DIN rail and panel mountable
- Easy viewing of action by LED display
- Wide range of input voltage (5 to 24V DC)
- Terminal cover included

■ Load current and ambient temperature characteristics

SA-420-Z

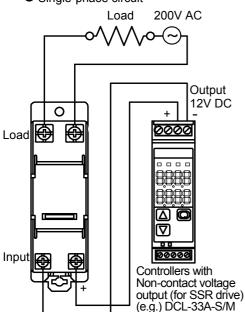




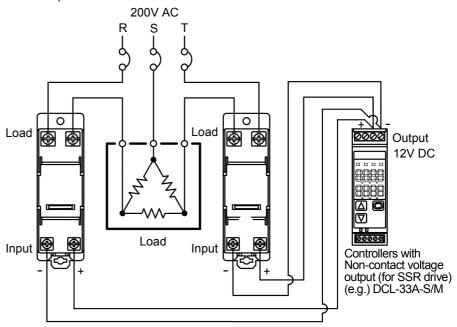


■Wiring example

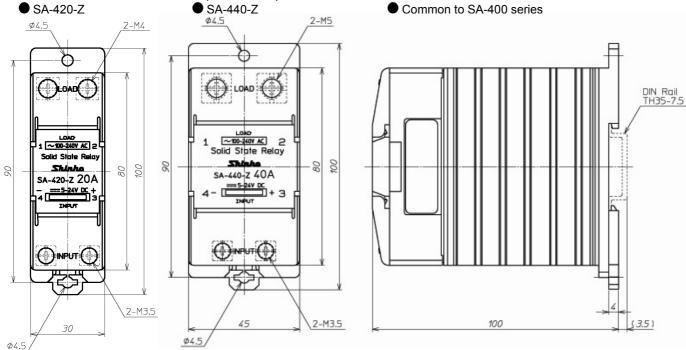
Single-phase circuit



3-phase circuit



■ External dimensions (Scale: mm)





- 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 such as protection equipment against excessive temperature rise, etc. 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. In the case of resale, ensure that this instrument is not illegally exported.

- This catalog is as of June 2023, and specifications are subject to change without notice.
- · If you have any inquires, please consult us or our agency.

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