Product Features

- variety type model and it is almost 400 model;
- Apply in many industry and the contact capacity current from low current (10mA) to power current (10A);
- The control voltages of the coil: DC6V-120V, AC12V-240V (50/60Hz);
- Multi installation methods with various sockets for selection;



- LED indicator, green for DC and red for AC;
- It has a large lighting area, which is easy for verifying the lighting status;
- The lindicator light and surge suppressor are integrated together.



• Test button function, easy for debugging and maintenance.

Description of Model Number

 Coil Voltage: DC: 6V, 12V, 24V, 36V, 48V, 110V, 220V AC: 6V, 12V, 24V, 36V, 48V, 110V, 220V Type Feature: no mark: without surge suppression loop D2: with surge suppression loop (DC specification) Terminal Type: no mark: plug-in type terminal 02: ZY series welded type terminal 0: DY series welded type terminal The cover Type: no mark: transparent (DY3/DY4 series) J: frosted (ZY2/ZY3/ZY4/DY2 series) Indicator: no mark: without indicator light N: with indicator light Number of Contactors: 2: 2 poles
-
Number of Contactors: 2: 2 poles
3: 3 poles 4: 4 poles
Auxiliary Actuating Mechanism: no mark: without manual test buttonS: with manual test button (DY3 and DY4 have no manual text button)Designed Model:ZY: mini medium power control relayDY: mini large power control replay

ZY Series Relay

ZY2-J Series



ZY2-J (Standard Type)



Applicable Sockets (SYF08A) Standard screw terminal type with the width of 22mm



Applicable Sockets (SYF08A-E) Safety type screw terminal type with the width of 22mm



Applicable Sockets (SYF08A-F) Safety type screw terminal type with trip bar mode and the width of 24mm



Applicable Sockets (SKB08-E) Frame type screw terminal type with trip bar mode and the width of 27mm



ZYS2-J (Manual test Button Type)



Applicable Sockets (SYF08A1) Standard screw terminal type with the width of 22mm



Applicable Sockets (SYF08A1-E) Safety type screw terminal type with the width of 22mm

Category:

Classification	Model.	Coil Voltage	
Standard Type	ZY2-J		
Manual test button Type	ZYS2-J		
Welded Terminal Type	ZY2-J02	DC: 6V, 12V, 24V, 36V, 48V, 110V, 220V	
Indicator Type	ZY2N-J	AC: 6V, 12V, 24V, 36V, 48V, 110V, 220V	
Surge Suppression Loop Type (DC specification)	ZY2-JD2		

For example: manual test button, 2 poles with indicator and surge suppression loop, and DC12V coil voltage, welded type, the medium power relay as: ZYS2N-J02D2DC12V.

ZY3-J Series



ZY3-J (Standard Type)



Applicable Sockets (SYF11A) Standard screw terminal type with the width of 29mm



ZYS3-J (Manual test Button Type)



Applicable Sockets (SYF11A1) Standard screw terminal type with the width of 29mm



Applicable Sockets (SYF11A-E) Safety type screw terminal type with the width of 29mm



Applicable Sockets (SYF11A1-E) Safety type screw terminal type with the width of 29mm

Category:

Classification	Model.	Coil Voltage
Standard Type	ZY3-J	
Manual test button Type	ZYS3-J	DC: 6V, 12V, 24V, 36V, 48V, 110V, 220V
Welded Terminal Type	ZY3-J02	AC: 6V, 12V, 24V, 36V, 48V, 110V, 220V
Indicator Light Type	ZY3N-J	
Surge Suppression Loop Type (DC specification)	ZY3-JD2	

For example: manual test button, 3 poles with indicator and surge suppression loop, and DC12V coil voltage, welded type, the medium power relay as: ZYS3N-J02D2DC12V.

ZY4-J Series



ZY4-J (Standard Type)



ZYS4-J (Manual test button Type)

Category:



Applicable Sockets (SYF14A) Standard screw terminal type with the width of 29mm



Applicable Sockets (SYF14A1) Standard screw terminal type with the width of 29mm



Applicable Sockets (SYF14A-E) Safety type screw terminal type with the width of 29mm



Applicable Sockets (SYF14A1-E) Safety type screw terminal type with the width of 29mm



Applicable Sockets (SKB14-E) Frame type screw terminal type with trip bar mode and the width of 27mm

Classification	Model.	Coil Voltage
Standard Type	ZY4-J	
Manual test button Type	ZYS4-J	DC: 6V, 12V, 24V, 36V, 48V, 110V, 220V
Welded Terminal Type	ZY4-J02	AC: 6V, 12V, 24V, 36V, 48V, 110V, 220V
Indicator Light Type	ZY4N-J	
Surge Suppression Loop Type (DC specification)	ZY4-JD2	

For example: manual test button, 4 poles with indicator and surge suppression loop, and DC12V coil voltage, welded type, the medium power relay as: ZYS4N-J02D2DC12V.

Technical Parameters

(1) Basic Technical Data

	Item	ZY2-J/ZYS2-J	ZY3-J/ZYS3-J	ZY4-J/ZYS4-J		
	lth	5A		3A		
	Ui	250V				
Max	. Working Voltage of Coil		110%	Us		
	Action Time		≤20r	ns		
	Release Time		≤30r	ns		
Contact	Changeover & Release Time	≥0.15ms				
	Contact Resistance	≤50mΩ				
Max. W	Vorking Voltage of Contactor	AC250V, DC250V				
Insulation Resistance		≥100MΩ				
	Between Breaking Contacts	AC1100V, 50Hz, 1min				
Uimp	Between Contact Poles	AC1500V, 50Hz, 1min				
Oinp	Between Contact-Coil	AC1500V, 50Hz, 1min				
	Between Contact/Coil- Ground		AC1500V, 50Hz, 1min			
	Operation Frequency ≤30 times/minute		/minute			
	Vibration		10~55Hz, Complex Amplitude 1.0mm, 1min			
Impact		200m/s², 11ms				
Electrical endurance		2×10⁵ Times				
Mechanical endurance		AC: 2×10^7 Times; DC: 5×10^7 Times				
,	Ambient Temperature	-5 °C ~+40 °C				
Weight		About 38g				

(2) Coil Specifications

Rated Voltage	operate Voltage	Release Voltage	Coil Resistance (Ω)	Coil Power consumption
DC6V	≤4.5V	≥0.6V	40	
DC12V	≤9V	≥1.2V	160	
DC24V	≤18V	≥2.4V	640	
DC36V	≤27V	≥3.6V	1450	About 0.9W
DC48V	≤36V	≥4.8V	2600	
DC110V	≤82.5V	≥11V	11500	
DC220V	≤165V	≥22V	46500	
AC6V	≤4.8V	≥1.8V	9	
AC12V	≤9.6V	≥3.6V	35	
AC24V	≤19.2V	≥7.2V	160	
AC36V	≤28.8V	≥10.8V	280	About 1.2VA
AC48V	≤38.4V	≥14.4V	590	
AC110V	≤88V	≥33V	3500	
AC220V	≤176V	≥66V	13800	

Notes: 1. The above data are tesed at room temperature (25 $^\circ\!\mathrm{C}$).

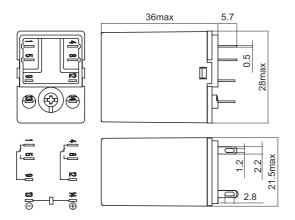
2. AC specification is the parameter at 50Hz.

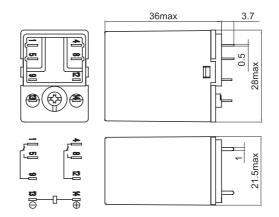
3. The special order shall be placed for other coil voltage specifications.

(3) Contact Capacity

Product Model.	AC-12	AC-15	DC-12	DC-13
ZY2-J/ZYS2-J ZY3-J/ZYS3-J	240V/5A	240V/1A	30V/5A	30V/1A
ZY4-J/ZYS4-J	240V/3A	240V/0.5A	30V/3A	30V/0.5A

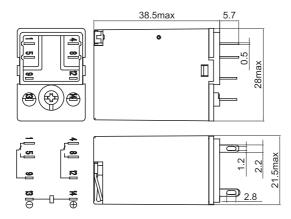
Appearance and Installation Sizes, Internal Wiring Diagram



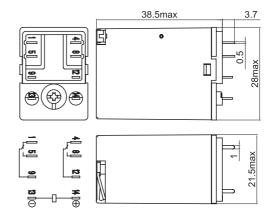


ZY2-J Appearance Size and Internal Wiring Diagram

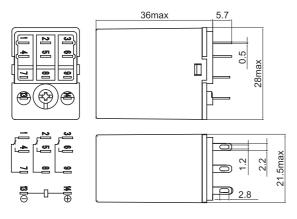
ZY2-J02 Appearance Size and Internal Wiring Diagram



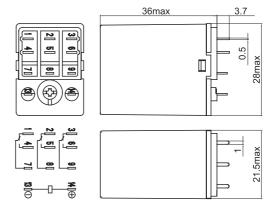
ZYS2-J Appearance Size and Internal Wiring Diagram



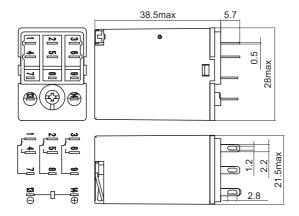
ZYS2-J02 Appearance Size and Internal Wiring Diagram

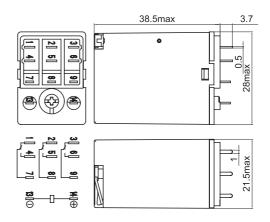


ZY3-J Appearance Size and Internal Wiring Diagram

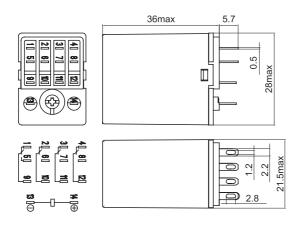


ZY3-J02 Appearance Size and Internal Wiring Diagram

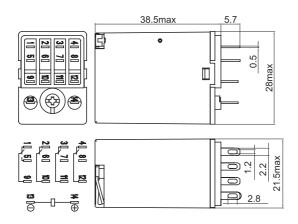




ZYS3-J Appearance Size and Internal Wiring Diagram

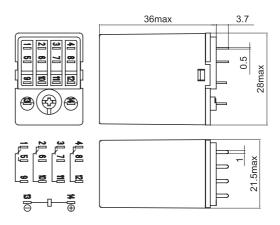


ZY4-J Appearance Size and Internal Wiring Diagram

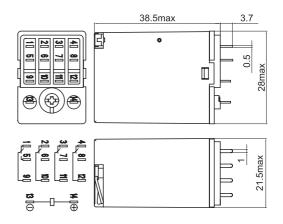


ZYS4-J Appearance Size and Internal Wiring Diagram

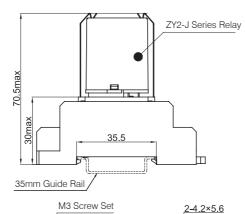
ZYS3-J02 Appearance Size and Internal Wiring Diagram

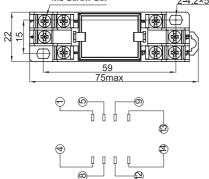


ZY4-J02 Appearance Size and Internal Wiring Diagram

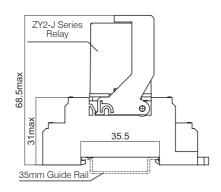


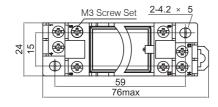
ZYS4-J02 Appearance Size and Internal Wiring Diagram

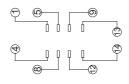




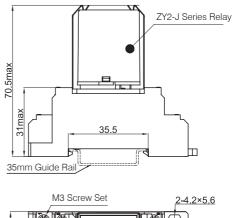
SYF08A Socket Appearance & Installation Sizes and Internal Wiring Diagram

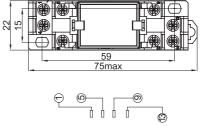






SYF08A-F Socket Appearance & Installation Sizes and Internal Wiring Diagram

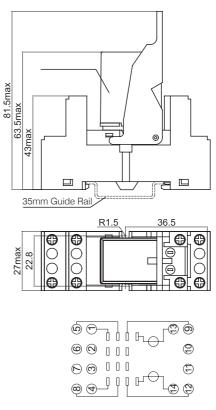




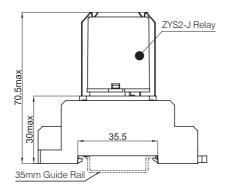
SYF08A-E Socket Appearance & Installation

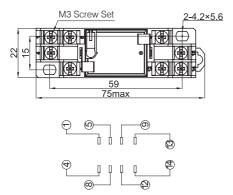
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Sizes and Internal Wiring Diagram

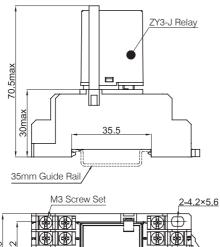


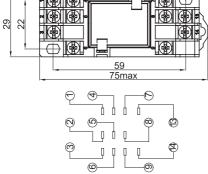
SKB08-E Socket Appearance & Installation Sizes and Internal Wiring Diagram



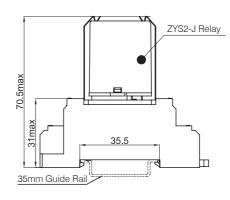


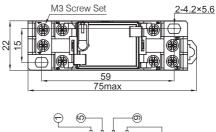


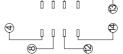




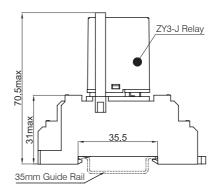
SYF11A Socket Appearance & Installation Sizes and Internal Wiring Diagram

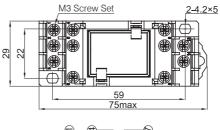


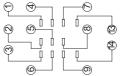




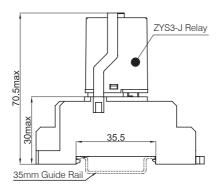
SYF08A1-E Socket Appearance & Installation Sizes and Internal Wiring Diagram

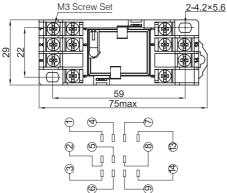


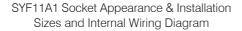


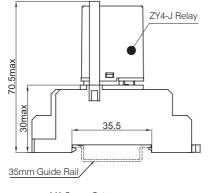


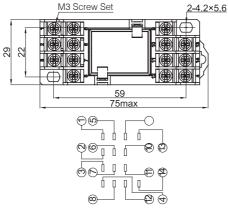
SYF11A-E Socket Appearance & Installation Sizes and Internal Wiring Diagram

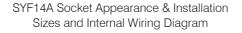


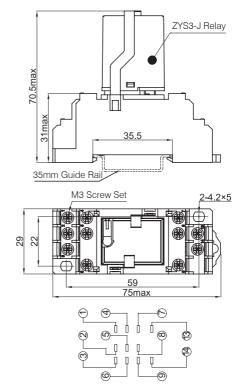




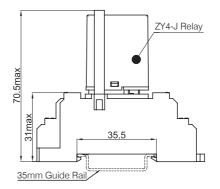


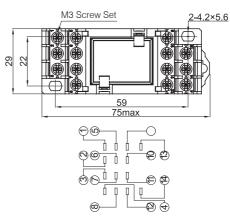




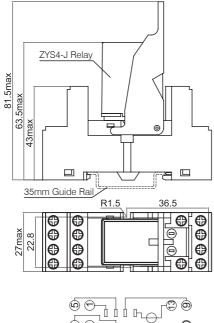


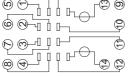
SYF11A1-E Socket Appearance & Installation Sizes and Internal Wiring Diagram



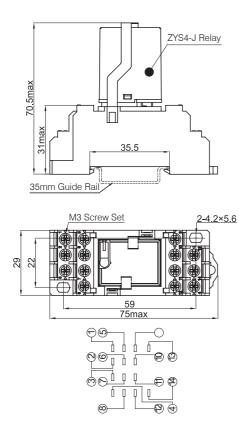


SYF14A-E Socket Appearance & Installation Sizes and Internal Wiring Diagram

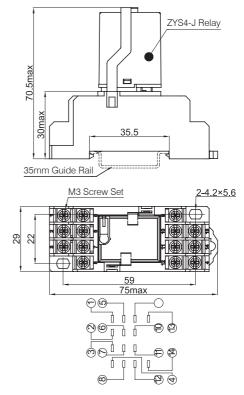




SKB14-E Socket Appearance & Installation Sizes and Internal Wiring Diagram

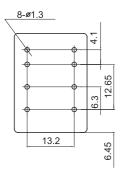


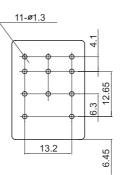
SYF14A1-E Socket Appearance & Installation Sizes and Internal Wiring Diagram

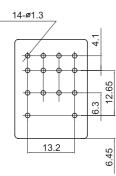


SYF14A1 Socket Appearance & Installation Sizes and Internal Wiring Diagram

Hole Size







ZY2-J02/ZYS2-J02 Installation Hole Size

ZY3-J02/ZYS3-J02 Installation Hole Size ZY4-J02/ZYS4-J02 Installation Hole Size