

Features

- 70A Contact switching capability
- 125°C High working temp
- 1 Form A contact available
- Fluxproof and sealed type available
- Resistance or diode paralleled type available

Typical Applications

- Rear window defogger , Battery breaking device
Automotive AC , Foglight control
- Electric power distributor , ABS Traction control system.

Contact Data

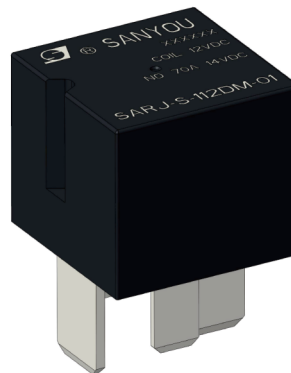
Contact form	1 Form A
Contact Material	AgSnO ₂
Contact voltage drop	200mV Max (at 10A)
Pull in time (rated voltage)	10msec.Max.
Release time (rated voltage)	Ordinary type:10 msec.Max Parallel resistor or diode type:15 msec.Max
Rated load (resistive)	70A 14VDC
Maximum continuous current	70A (at23°C) 50A (at85°C)
Maximum switching current (normal type)	On(NO): 200A (Surge current of lamp load, 14VDC) Off(NO):70A (resistive load, 14VDC)

contact load voltage	load type		Contact load current (A)	on-off ratio	endurance (cycles)	contact material
			Form A			
14VDC	Resistive	on	70	2s : 2s	1x10 ⁵	AgSnO ₂
		off	70			
	Motor	on	150 ^a	2s : 4s	1x10 ⁵	AgSnO ₂
		off	50			
	lamp	on	200 ^a	2s : 2s	1x10 ⁵	AgSnO ₂
		off	40			
27VDC	Resistive	on	40	2s : 2s	1x10 ⁵	AgSnO ₂
		off	40			

Note: a. Peak current time/steady-state current time: 1/10

Voltage resistant insulation parameters

insulation resistance	100MΩ Min.(500VDC)
Initial Dielectric Strength	Between open contacts:500VAC, 50/60Hz 1min. Between contacts and coil:500VAC, 50/60Hz 1min.



Coil parameters

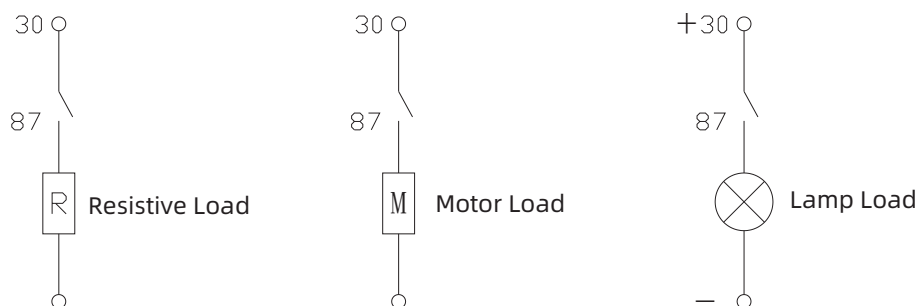
Rated voltage (VDC)	12	12	24	24
Working current ±10(mA)	133.33	150	66.7	75
coil resistance ±10(Ω)	90	90	360	360
Parallel resistor (Ω)	---	680	---	2700
Equivalent resistance (Ω)	---	80	---	320
coil power (W)	1.6	1.8	1.6	1.8
Maximum allowable voltage (VDC)	150% Rated Voltage			
Maximum suction voltage (VDC)	60% Rated Voltage			
Maximum release voltage (VDC)	10% Rated Voltage			

Other parameters

Shock Resistance	NO 30G
Vibration Resistance	5 ~ 22.3Hz at double amplitude of 10 mm 22.3~500Hz, 98m/s ²
Mechanical (10,800 ops./h)	1x10 ⁷ ops
Electrical (900 ops./h)	See the contact parameters table
Ambient Temperature	-40°C to +125°C (No condensation)
Humidity	5% to 85%RH
Weight	Approx. 36.0g

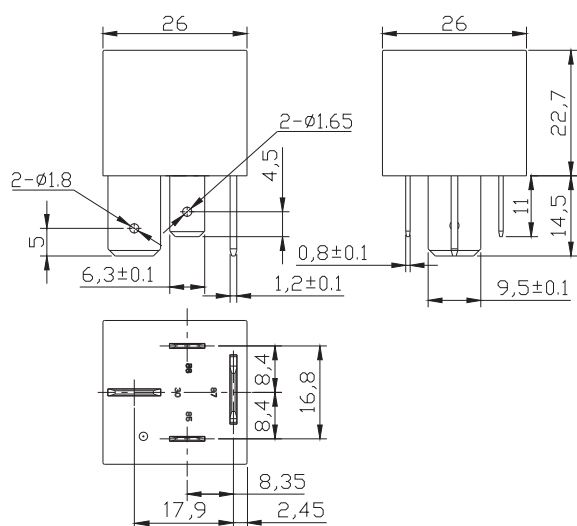
Note: The above parameters are initial values

Wiring Diagram for different Loads

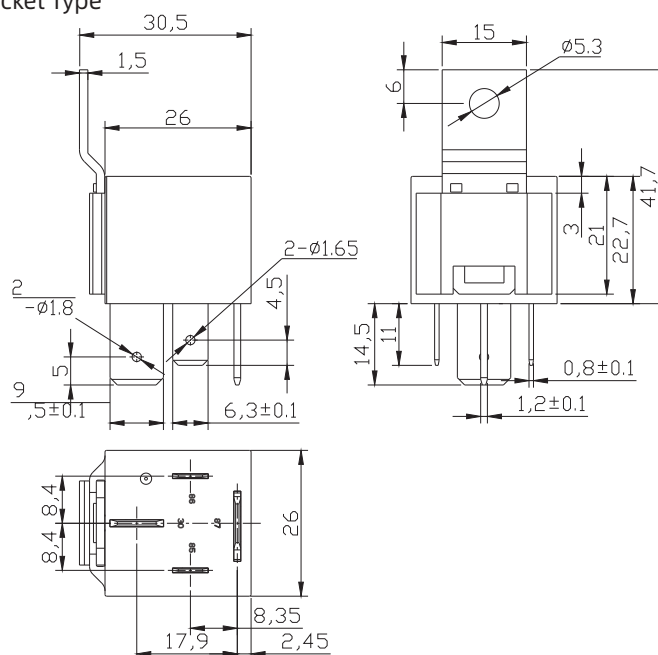


Outline Dimensions, Wiring Diagram (unit:mm)

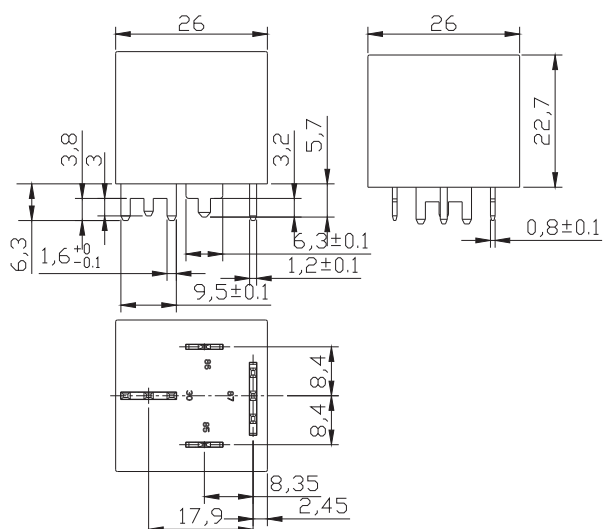
Standard Type



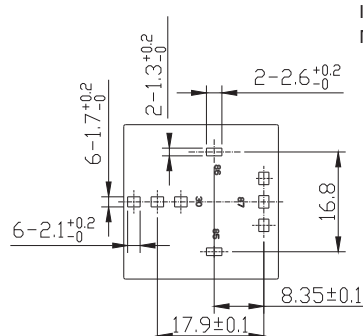
With Bracket Type



PCB type



P.C.B. Layout



Unless otherwise specified:

If dimension < 1mm, tolerance: ±0.2mm;

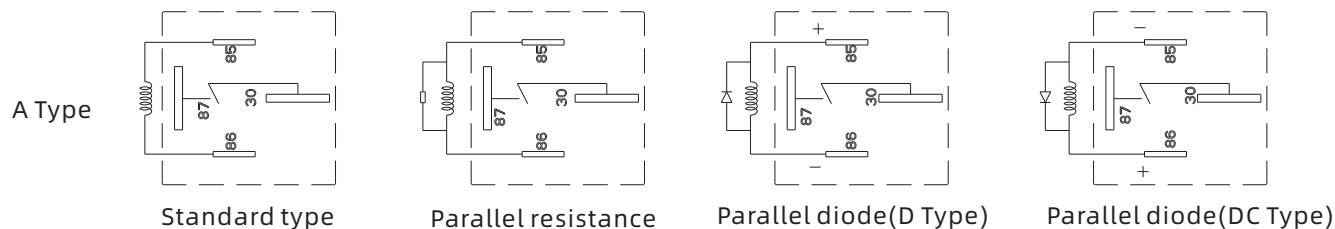
If dimension 1~5mm, tolerance: ±0.3mm;

If dimension > 5mm, tolerance: ±0.4mm.

Note: 1. Extended terminal dimension is dimension before soldering.

2. Tolerance of P.C.B. layout: ±0.1mm.

Electrical schematic diagram



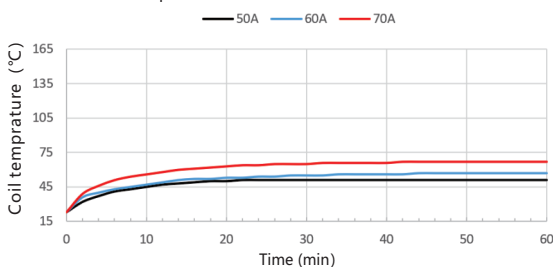
Ordering Information

SARJ	-S	-1	12	D	M	F	R	-XX	
									Special Parameter: Nil-Standard type,01-terminal without hole
									Accessory Form: Nil-without accessory, R-Parallel resistor D-parallel diode(see wiring diagram) DC-Parallel diode(see wiring diagram)
									Mounting type : Nil-without bracket, F-with iron bracket,P-PCB type
									Contact Form: M-Form A
									Coil Power: D- 1.6W /1.8W
									Coil Voltage(VDC): 12 , 24
									Number of Poles:1-1 Pole
									Protective Construction:Nil-Dustproof , S-Fluxproof
									Type Designation:SARJ

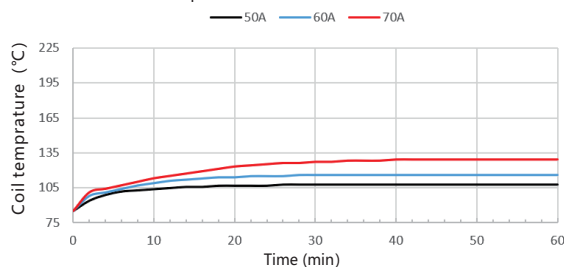
Note: (1) The customer's special requirements need to be formulated together with Sanyou.

Characteristic Curves

Terminal temperature rise curve (23°C)
 Test items: SARJ-S-112DM(1.6W)
 Amount: 3PCS
 Coil Voltage: 12VDC
 Load current: 50A,60A,70A
 Environment temperature: 23°C



Terminal temperature rise curve (85°C)
 Test items: SARJ-S-112DM(1.6W)
 Amount: 3PCS
 Coil Voltage: 12VDC
 Load current: 50A,60A,70A
 Environment temperature: 85°C



Disclaimer

This product specification is for reference only, subject to change without prior notice. It is not possible for Sanyou to evaluate all the performance parameter requirements of relays in each specific application field, so customers should choose the suitable product according to the specific application conditions. If you have any questions, please contact us for more technical support, but the customer should be responsible for product selection.