

Features

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

Contact Capacity

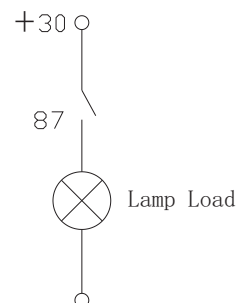
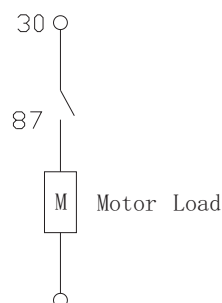
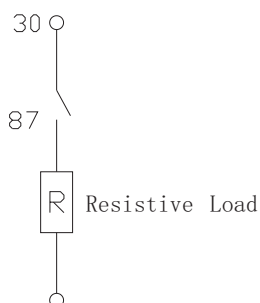
Model	SARJ
Nominal Switching capacity (res.load)	normal:70A 14VDC FormU:10A 80VDC
Max. switching current(normal)	on(NO):200A (surge current in lamp load , 14VDC) off(NO):70A (resistive load,14VDC)
Max. persistent current	70A at23°C 50A at85°C

Contact Data

Contact rating voltage	Load type		contact rating current(A) Form A 1-1pole	duty factor	endurance (cycles)	contact material
14VDC	res.	on	70	2S	1x10 ⁵	AgSnO ₂
		off	70	2S		
	motor	on	150 ^a	2S	1x10 ⁵	AgSnO ₂
		off	50	4S		
	lamp	on	200 ^a	2S	1x10 ⁵	AgSnO ₂
		off	40	2S		

a.Time ratio of Peak current:Stable current is 1:10.

Wiring Diagram for different Loads:



Characteristic Data

Contact Material	Silver Alloy
Dropping Voltage of Contacts	200mv/at 10A (max)
Operate Time	10msec. Max.
Release Time	Ordinary type:10msec.Max. with resistor or diode type :15 msec. Max.
Initial Insulation Resistance	100MΩ Min.(DC500V)
Initial Dielectric Strength	OP/OP : AC500V , 50/60Hz for 1min.
	IP/OP : AC500V , 50/60Hz for 1min.
Vibration Resistance	5 ~ 22.3Hz at double amplitude of 10 mm 22.3~500Hz 98m/s ²
Shock Resistance	NO 30G
Collision Response acceleration (T/TC Type)	The relay will respond when acceleration is > 30g 11msec. The relay will not respond when acceleration is <10g 11msec.
Endurance (operate)	Mechanical (10,800 ops./h) 1x10 ⁷ cycles
	Electrical (900 ops./h) See the contact parameters table
Ambient Temperature	-40°C ~ +125°C(no condensation)
Unit Weight	Approx. 36.0g

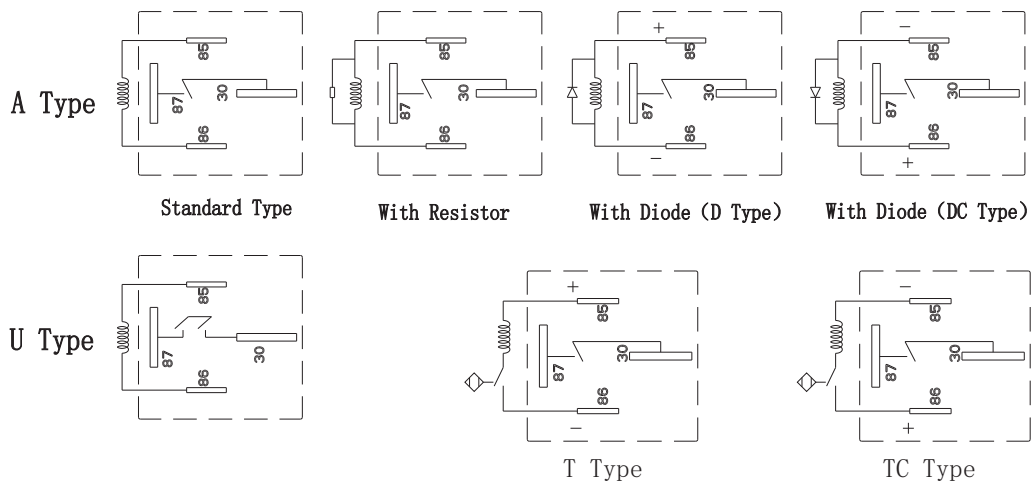
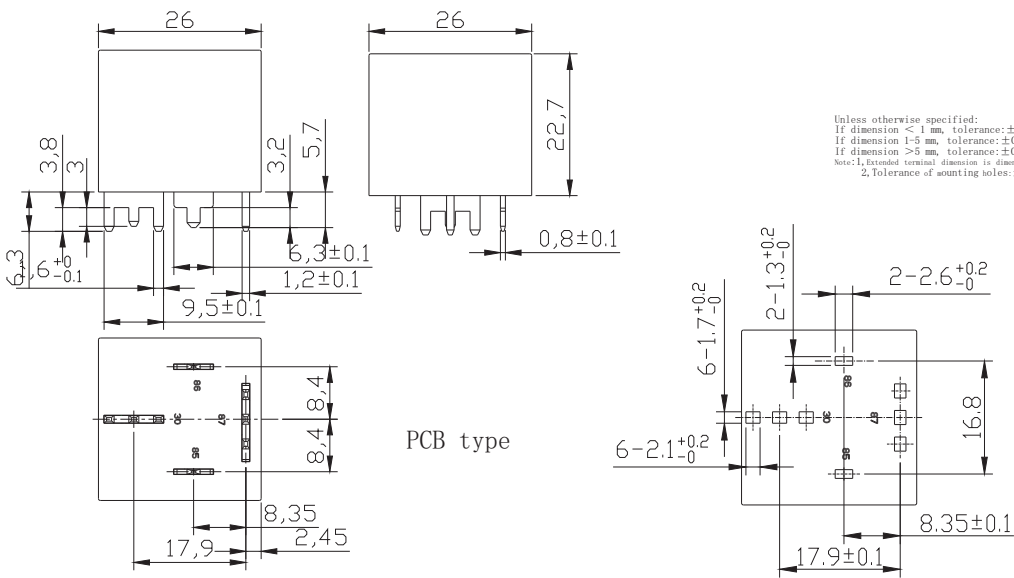
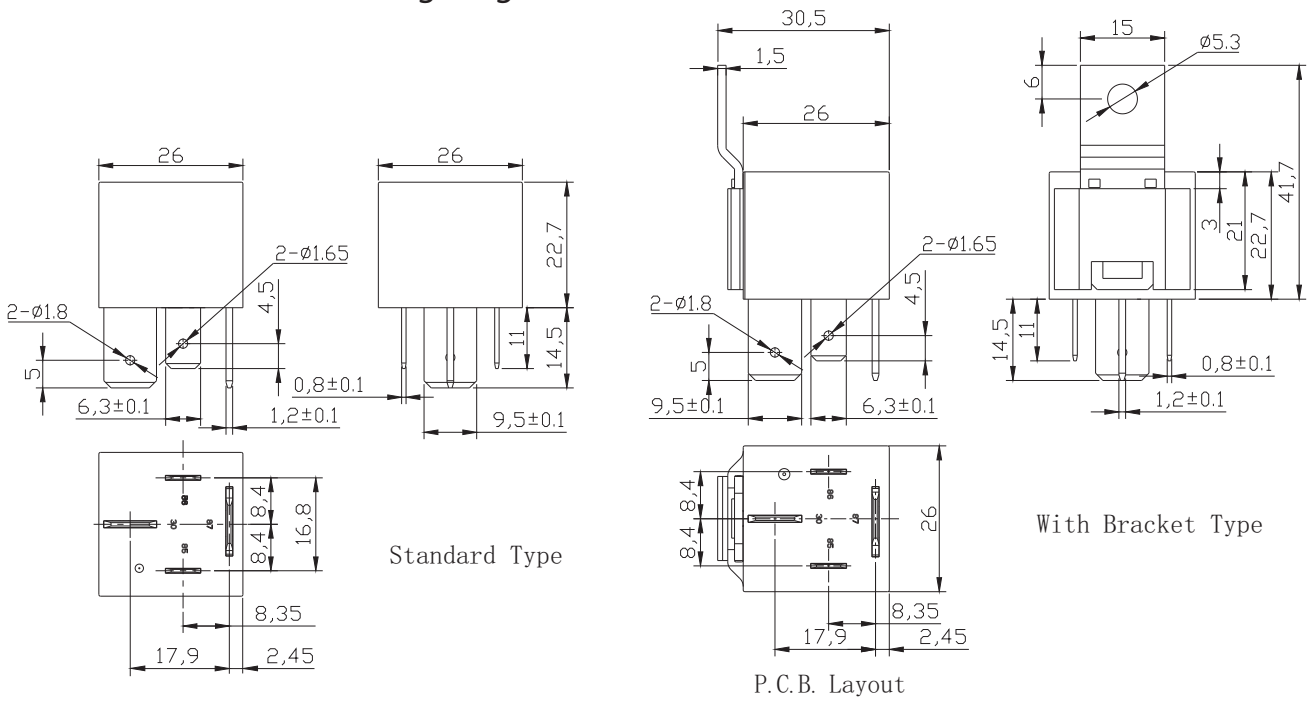
Coil Data(at 20°C)

Nominal Voltage (VDC)	Nominal Operating Current ±10%(mA)	Coil Resistance ±10%(Ω)	Parallel Resistance (Ω)	Equivalent (Ω)	Max. allowable Resistance Voltage	Pick-up Voltage (Max.)	Drop-out Voltage (Min.)	Coil Power (W)
12	133.33	90	---	---	150% of Nominal Voltage	60% of Nominal Voltage	10% of Nominal Voltage	Approx. 1.6
12	133.33	90	680	80				Approx. 1.8
24	66.7	360	---	---				Approx. 1.6
24	66.7	360	2700	320				Approx. 1.8

Ordering Information

Nomenclature										
SARJ	-S	-1	12	D	M	F	T	R	-XX	Special Parameter : Nil-Standard type , 01-terminal without hole
										Accessory Form: Nil-without accessory, R-with resistor D-with diode(see wiring diagram) DC-with diode(see wiring diagram)
										Structure type: Nil-Standard type,T-Collision Response type TC-Collision Response type(see wiring diagram)
										Mounting type : Nil-without bracket , F-with iron bracket , P-PCB type
										Contact Form : M-Form A , U-Form U
										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

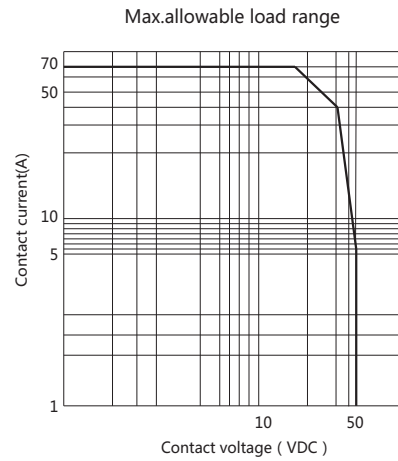
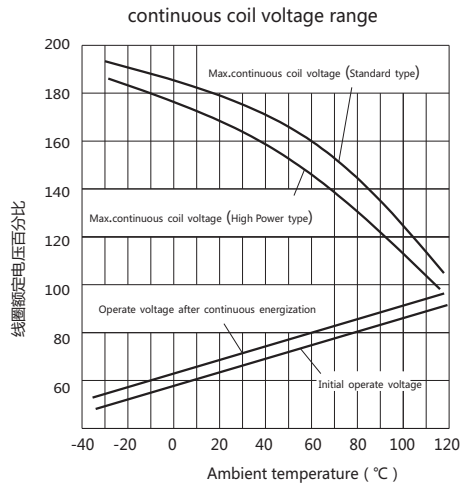
Outline Dimensions, Wiring Diagram



Typical Applications

- rear window defogger、 battery breaking device、 automotive AC、 foglight control、 headlight control
- electric power distributor、 ABS、 traction control system.

Characteristic Curves



Disclaimer :

This datasheet is the customers' reference. All the specification are subject to change without notice.
 We could not evaluate all the performance and parameters for every possible application. Thus the users should be in a right position to choose the suitable product for their own application. If there is any query, please contact Sanyou for technical service. However it is the users' responsibility to determine which product should be used only.
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