



- 70A contact switching capability.
- Operating temperature: Max. 125°C.
- Contact form: Normally Open
- Sealed and flux type available.
- Capable of inrush constrained resistance or diode.
- RoHS compliant.

SPECIFICATIONS

Contact data

Contact form	1a(1 pole, N.O.)	
Contact material	Silver alloy	
Contact resistance	20mΩ Max.	
Min. load	1A 6VDC	
Max. Switching voltage	50VDC	
Max. Switching current	70A(23°C) 50A(125°C)	
Max. Switching power	980W	
Service Life	Mechanical (300cycles/Min.)	1×10 ⁷
	Electrical (20cycles/Min.)	1×10 ⁵

Characteristics

Operate time	10 msec. Max.	
Release time	7 msec. Max.	
Operating humidity	45 to 85% RH	
Ambient temperature	-40°C~+125°C	
Storage temperature	-40°C~+155°C	
Insulation resistance	500MΩ Min. (500VDC)	
Dielectric Strength	Between contact and coil	500VAC (50/60Hz) for 1 min.
	Between open contacts	500VAC (50/60Hz) for 1 min.
Vibration resistance	10-500HZ 18G.	
Shock resistance	30G.	
Unit weight	General type approx. 36g, PCB type approx. 30g	

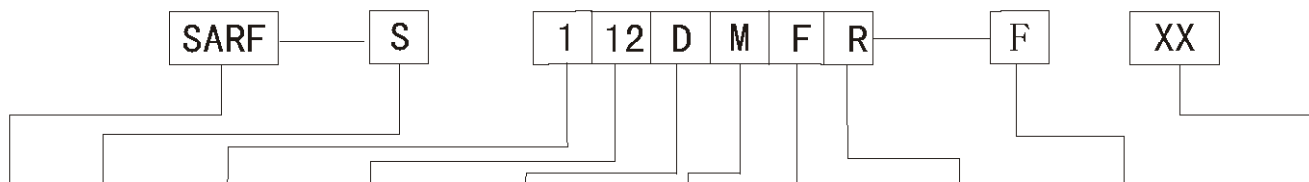
Coil data

Rated power	1.6W , 2.0W
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TYPICAL APPLICATIONS

- Cooling fan controller, pump, heater, air conditioner of automotive, fog cleaner of back window, battery circuit break device.
- lamp/fog light controlling, power distribution, tractive controled system, anti-breaking system(ABS).

ORDERING INFORMATION



Type	Sealed construction	Number of pole	Coil voltage	Coil sensitivity	Contact form	Cover type	Accessory form	Insulation system	Special code
SARF	Nil: Flux S: Sealed	1 :1 pole	06, 12, 24, 36	D: 1.6W L: 2.0W	1 Form A	F: with backrest Nil: General P: PCB	R: with resistance D: with diode Nil: General	B: Class B F: Class F Nil: General	Nil: Standard Additional numbers or letter which don't effect the construction

Coil parameter (20°C)

◆ Standard type

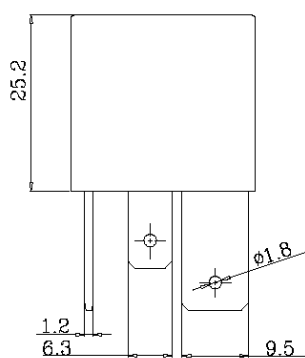
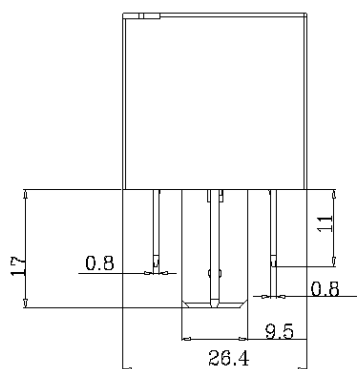
Rated voltage (V)	Rated current ±10% at 20 °C (mA)	Coil resistance ±10% at 20 °C (Ω)	Max. Continuous Voltage at 20 °C	Operate voltage (Max) at 20 °C	Release voltage (Min) at 20 °C	Rated power
6	266.67	22.5	1 50 % Rated voltage	60% Rated voltage	10 % Rated voltage	Approx. 1.6 W
12	133.33	90				
24	66.67	360				
36	44.44	810				

◆ High power consumption (L)

Rated voltage (V)	Rated current ±10% at 20 °C (mA)	Coil resistance ±10% at 20 °C (Ω)	Max. Continuous Voltage at 20 °C	Operate voltage (Max) at 20 °C	Release voltage (Min) at 20 °C	Rated power
6	333.33	18	1 15 % Rated voltage	60 % Rated voltage	10 % Rated voltage	Approx. 2.0 W
12	166.67	72				
24	83.33	288				
36	55.56	648				

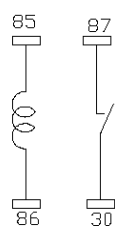
Outline dimension, wiring diagram, mounting holes (Unit:mm)

1-1 SARF quick connected terminal outline dimension.

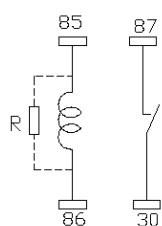


Terminal arrangement

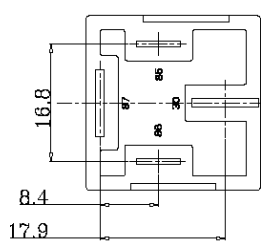
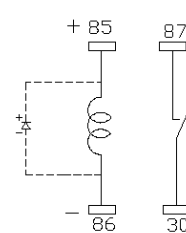
1. Normal



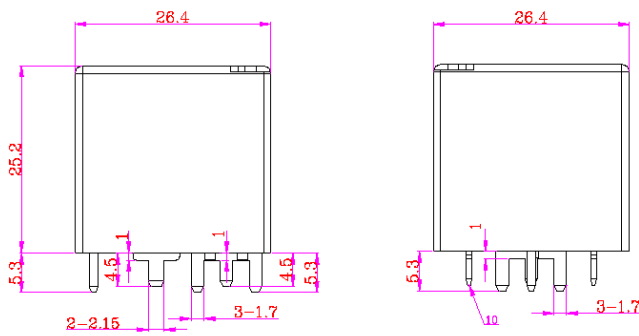
2. With resistance



3. With diode

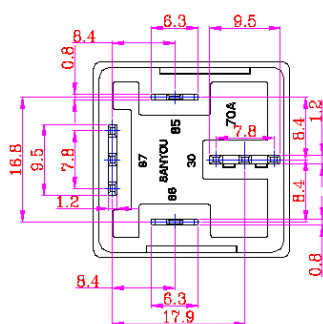


2-1 SARF PCB terminal outline diagram

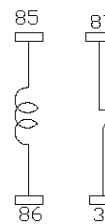


Bottom view

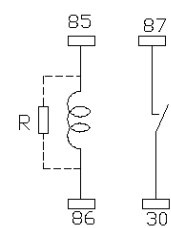
Terminal arrangement



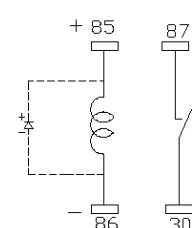
1. Normal



2. With resistance



3. With diode



Note:

Dimension tolerance.

If outline dimension $\leq 1\text{mm}$, the tolerance is $\pm 0.2\text{mm}$.

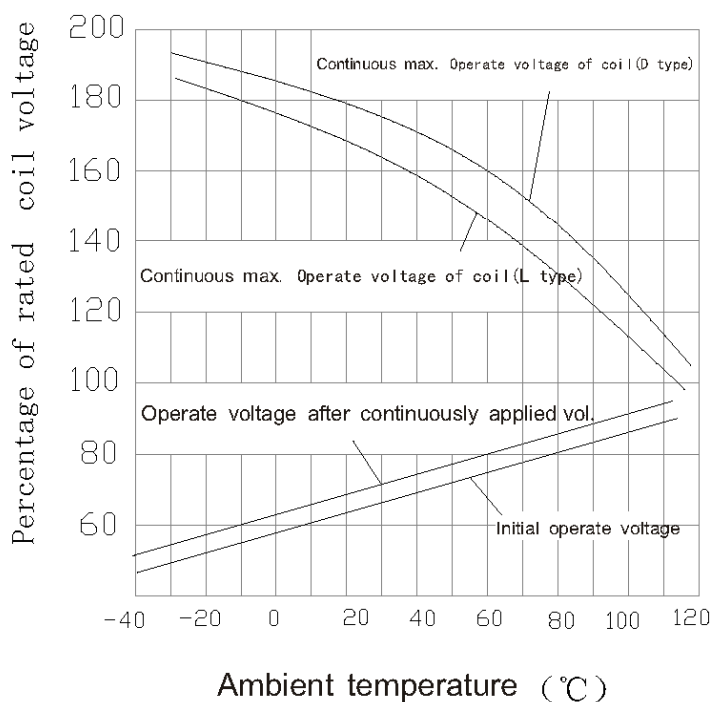
If outline dimension between 1-5mm, the tolerance is $\pm 0.3\text{mm}$.

If outline dimension between 5-10mm, the tolerance is $\pm 0.4\text{mm}$,

If outline dimension $> 10\text{mm}$, the tolerance is $\pm 0.5\text{mm}$.

Characteristics curve

1. Continuously applied coil voltage range



2. Max. Allowable load range

