



X 色 名 Automotive Relay

SAF7-Series



Features

- Maximum continuous current 30A
- Maximum closing current 100A
- Ambient temperature up to 125°C
- H(180°C)insulation Class
- 250 ℃ reflow soldering
- Comly with RoHS, ELV standards

Typical Application

• Defogger, ignition, seat heater, power windows, etc.

Contact Data

	41A 30min / 30A Continuous (23℃)				
Maximum continuous current	38A 30min / 25A Continuous (85℃)				
	35A 30min / 15A Continuous (125℃)				
Max. switching current	Making : 100A (peak lamp load inrush current, 14VDC)				
Max. Switching current	Breaking: 30A (resistive, 14VDC)				
Max. switching voltage	16VDC				

Paramenters Data

Contact material	Silver alloy							
Dropping Voltage of Contacts	250mV Max (at 10A)							
Operate time (at nominal volt)	10msec.Max.							
Release time (at nominal volt)	10msec.Max.							
Initial insulation resistance	500MΩ Min (500VDC)							
Initial dialoctric strongth	Between open contacts: 500VAC, 50/60Hz 1min.							
Initial dielectric strength	Between coil and contact: 500VAC, 50/60Hz 1min.							
Shock resistance	Functional: 100m/s²							
SHOCK resistance	Destructive: 1000m/s ²							
Vibration resistance	Functional: 10-100Hz,44.1m/s²							
Vibration resistance	Destructive: 10-500Hz,44.1m/s² 2h							
Mechanical 1×10 ⁷ ops								
Ambient temperature	-40°C to +125°C							
Weight	Approx 10g							

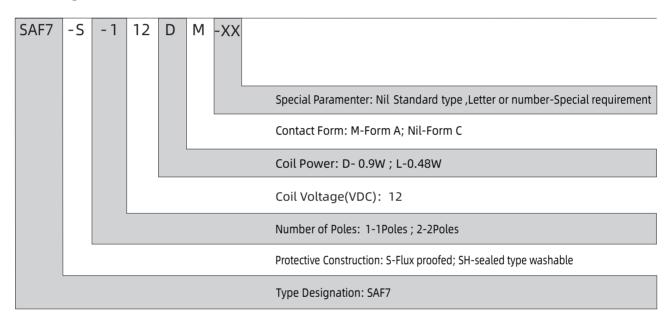
Coil Data

Nomina voltag VDC	Pick-up voltage VDC			Drop-out voltage VDC			Drop-out voltage VDC	Coil resistance ±10%(Ω)	Coil resistance (W)
12	23℃	85℃	125℃	23℃	85°C	125℃	16	23℃	23°C
	≤7	≤8.8	≤9.9	≥1	≥1.2	≥1.4	10	300	0.48

Contact Performance

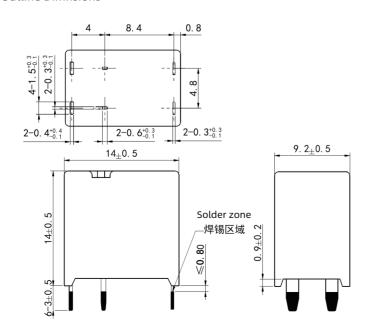
Combont	Dating tune		Contact rating current (A)	Duty factor		Endurance	Matarial	Tost ambient
Contact Voltage	Rating t	ype	1A	Marking (s)	Breaking (s)	Endurance (cycles)	Material	Test ambient temperature
14VDC	Resistive Load	On	30	2	2	1x10 ⁵	AgSnO ₂	23℃
		Off	30	2				
	Lnductive Load L=0.5mH	On	40	2	2	1x10 ⁵	AgSnO ₂	40°C~125°C
		Off	20	2				
	Lamp load	On	100	2	2	1x10 ⁵	AgSnO ₂	
	Lamp toda	Off	10					

Ordering Information



Outline Dimensions Wiring Diagram , Mounting Holes (unit:mm)

Outline Dimnsions



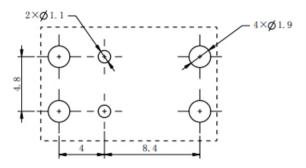
Unless otherwise specified

If dimension < 1mm, tolerance: ±0.2mm; If dimension 1~5mm, tolerance: ±0.3mm; If dimension > 5mm, tolerance: ±0.4mm;

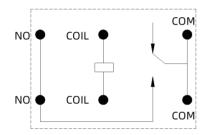
Note: 1. Extended terminal dimension is dimension before soldering.

2. Tolerance of mounting holes $: \pm 0.1$ mm.

Mounting dimensions (bottom view)



Wiring Diagram (bottom view)



Statement:

This product specification is for reference only, subject to change without prior notice. We could not evaluate all test conditions for every possible application, thus customers should be in a right position to choose suitable products for their own application. If in doubt, please contact Sanyou for more technical support. However, it's the customer's responsibility to determine which product should be used.