

914F_{1Pole}

POWER RELAY MINIATURE HIGH POWER RELAY

- ◆ 20A 250VAC switching capability
- ◆ 1 Form A and 1 Form C configurations
- ◆ UL insulation grade: Class F



Contact Data

Contact Arrangement	1A 1C
Contact Resistance	100mΩ(1A 6VDC)
Contact Material	AgSnO ₂ , AgCdO, AgNi alloy
Contact Rating	20A 250VAC
Max. Switching Voltage	250VAC
Max. Switching Current	20A
Max. Switching Power	5000W
Mechanical Endurance	1*10 ⁷ ops
Electrical Endurance	1*10 ⁵ ops (20A 250VAC)

Characteristics

Insulation Resistance	1000MΩ(500VDC)	
Dielectric Strength b/w	Coil&Contacts	5000VAC 50/60Hz 1min
	Open Contacts	1000VAC 50/60Hz 1min
Shock Resistance	Functional	98m/s ² (10G)
	Destructive	980m/s ² (100G)
Vibration Resistance	10Hz~55Hz 1.5mm DA	
Humidity	≤85% (at35°C)	
Ambient Temperature	-40°C~85°C	
Termination	PCB	
Unit Weight	Approx. 13g	
Construction	Plastic Sealed, Flux Proofed	

Coil Data

The parameters listed are the initial values measured in the standard state, if the environmental state changes will have an impact on the actual parameters The standard state is: temperature: 23°C±5°C, humidity: 25%-75%

Nominal Voltage (VDC)		Coil Resistance (Ω±10%)		Pick-up Voltage VDC	Drop-out Voltage VDC	Coil Power (W)	Other (ms)
Nominal	Max. (at85°C)	0.54W	0.72W	Nominal Voltage 75%	Nominal Voltage 10%		
5	7.5	46.3	34.7	3.75	0.50	0.54/0.72	Pick-up Time ≤10 Drop-out Time ≤5
6	9	66.7	50	4.50	0.60		
9	13.5	150	112.5	6.75	0.90		
12	18	266.7	200	9.00	1.20		
24	36	1066.7	800	18.00	2.40		
48	72	4266.7	3200	36.00	4.80		

Safety Approval Ratings

CQC	20A 250VAC 16A 250VAC
UL	20A/16A 250VAC 1/2HP 125VAC Tungsten 9.6A 125VAC Electronic Ballast 9.6A 125VAC

Soldering Conditions

Wave Soldering	260±5°C 3-5s (sec)
Soldering Resistance	Must be free from any abnormality in both the construction and characteristics after the terminals are dipped into solder at 260±5°C for 10 seconds and 350±5°C for 3 seconds and then left in room temperature and humidity for 2

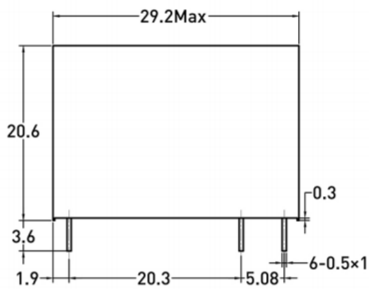
► Ordering Information

	914F	- 12VDC	- SL	- 1A
Type				
Coil Voltage	5, 6, 9, 12, 24, 48			
Construction	SL : Plastic Sealed Nil : Flux Proofed			
Contact Form	1A: 1 Form A 1C: 1 Form C			

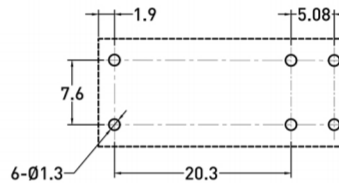
- *1) We suggest to choose plastic sealed types and validate it in real application for an unclean environment (with contaminations like H₂S, SO₂, NO₂, dust, etc), and verified by using it in real situations ;
- 2) Contact is recommended for suitable condition and specifications if water cleaning or surface process is involved in assembling relays on PCB ;
- 3) AgSnO₂ material contacts are recommended for application scenarios where capacitive loads, lamp loads, motor load lamps generate high inrush currents at the moment of relay turn-on ;
- 4) If customers have any special requirements, they need to contact our company for evaluation and then choose the corresponding product type according to the characteristics.

► Outline Dimensions, PCB Layout and Wiring Diagram (Unit : mm)

1 Form A



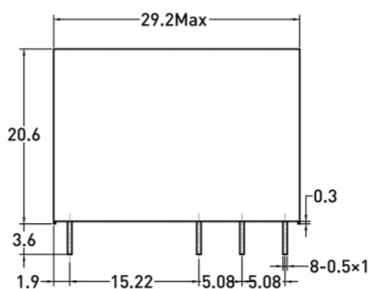
PCB Layout



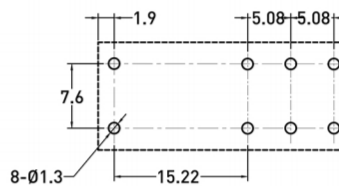
Wiring Diagram



1 Form C



PCB Layout



Wiring Diagram

