RFC

General Purpose Relay

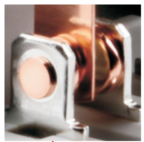
- Slim and compact size
- With non-polarity LED integrated in relay
- Shenler industrial relays are widely used in the output signal and safety drive of PLC, CNC system, robot, intelligent manufacturing and other control systems. It is the best choice to realize remote control, production and processing, packaging, transportation, testing, storage and other equipment and automatic assembly lines.

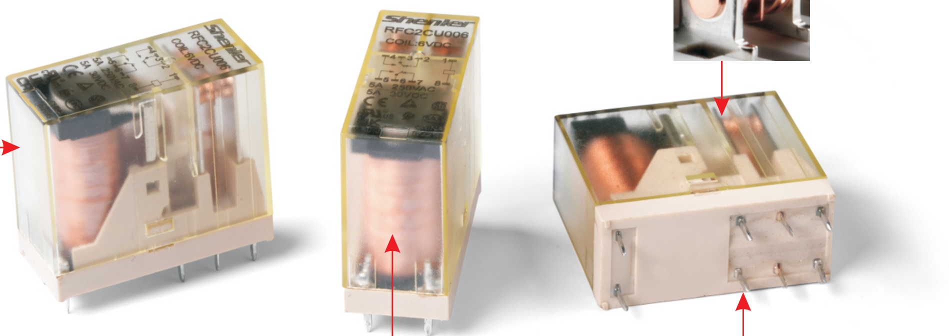
Fire-resistant materials

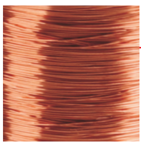
The shell is made of flame retardant material, with high strength, high temperature resistance, corrosion resistance and more safety

Silver alloy contacts

It can carry more current, with stronger conductivity and more sensitive response, and greatly extend electrical life, and works more stable.







silver alloy pins

High-quality silver alloy pins, strong contact, instantaneous conductivity and stable performance.

Top copper coil material

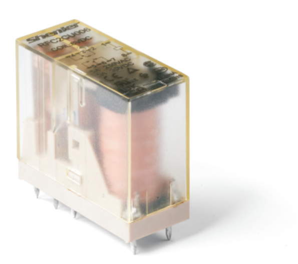
Standard turns and electromagnetic coils make the pick-up more reliable and enduring, which can reach more than 20 million cycles.

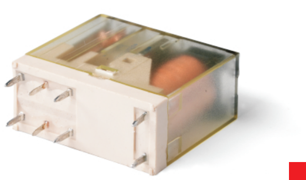
Selection manual of
industrial control relay

RFC

General Purpose Relay

RFC □ □ □ □





Relay

Installation form

None:PCB

Coil voltage code

Code	005	006	009	012	018	024	036	048	110
Voltage (V DC)	5	6	9	12	18				
Code	512	524	548	548	615	730			
Voltage (V AC)	12	24	48	48	115	230			

Terminal arrangement

O:PCB 3.5mm 1C:10A; 2C:5A

U:PCB 5.0mm 1C:10A; 2C:5A

H:PCB 5.0mm 1C:16A

Contact form

Code	1A	1B	2C	2A	2B	2C
Contact form	1NO	1NC	2CO	2NC	1NO	3CO

Series

Characteristics

Contact	Configuration		1A,1B,1C	2A,2B,2C
	Load	Resistance	10, 16A/250VAC, 30VDC	5A, 250VAC, 30VDC
		Motor load	1/3HP, 240VAC, 1/2HP, 240VAC(16A)	1/6HP, 240VAC
	Max. switching capacity (resistive)		2500VA, 300W; 4000VA, 480W	1250VA,150W; 2000VA, 240W
	Min. switching capacity		170mW(17V/10mA)	
	Initial contact resistance		≤50mΩ	
	Material		Ag alloy	
	Electrical durability		≥10 x 10^4 times (1800 Ops/h)	
	Mechanical durability		≥1000 x 10^4次 (18000 Ops/h)	
Pick-up voltage (23℃) (Rated voltage)			DC:≤75% ,AC:80% 50/60Hz	
Drop-out voltage (23℃) (Rated voltage)			DC:≥10% ,AC:30% 50/60Hz	
Maximum voltage (23℃)			110% (Rated voltage)	
Insulation resistance			≥1000MΩ (500VDC)	
Coil operating power	DC(W)		approx. 0.53	
	AC(VA)		approx. 1.0	
Operate time (at nominal voltage)			≤20ms	
Release time (at nominal voltage)			≤10ms	
Initial breakdown voltage	Between open contacts		1000VAC/1min (leakage current 1mA)	
	Between poles		1000VAC/1min (leakage current 1mA)	
	Between contacts and coil		5000VAC/1min (leakage current 1mA)	
Working temperature/ humbidity			-40~+65℃/ 35%~85%RH (No condensation) ★	
Air pressure			86~106KPa	
Shock resistance			Stability10G,destructiveness100G	
Vibration resistance			10~55Hz double-amplitude:1.5mm	
Mounting			PCB	
Unit weight			approx. 17g	
Similar products			14FC	

★ If the storage exceeds 18 months (calculated from the factory date), it is recommended to re-test the parameters before using.

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General Purpose Relay

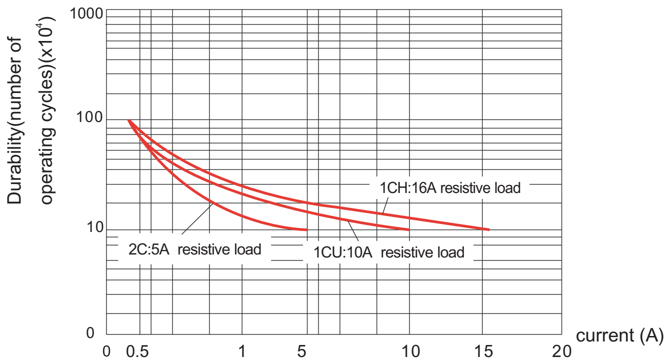
Coil Specifications (23°C)

Nominal voltage V.DC (0.17W)	5	6	9	12	18	24	36	48	110
Coil resistance Ω	47	68	150	270	610	1100	2440	4300	22800
Nominal voltage V.DC (0.21W)	12	24	48	115	1230				
Coil resistance Ω	63	240	1085	6300	2300				

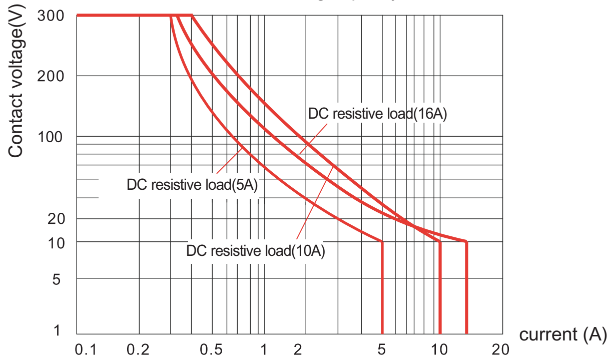
Coil resistance: under coil voltage 110V are measured with tolerance of ±10%Ω, above 110V with tolerance of ±15%Ω.

Contact Specification

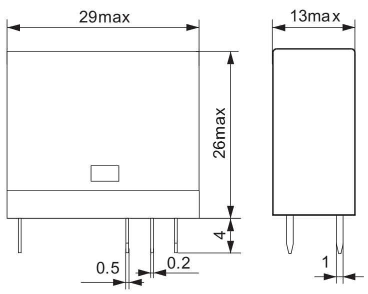
Electrical durability



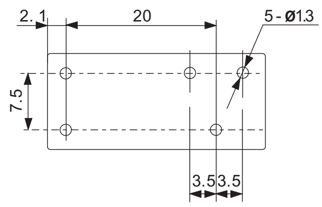
Maximum switching capacity



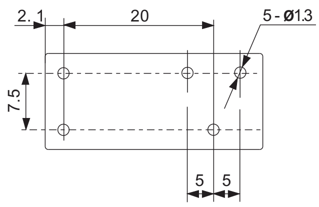
Dimensions (mm)



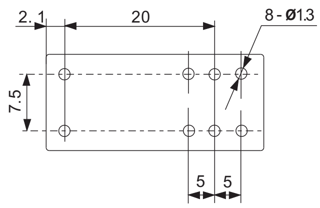
RFC1CO



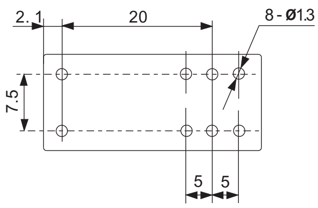
RFC1CU



RFC1CH



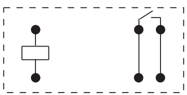
RFC2CU



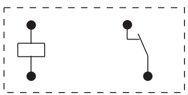
Wiring Diagrams

RFC1AO/1AU

RFC1AH



RFC1BO/1BU



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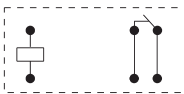
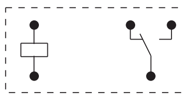


RFC1CO/1CU



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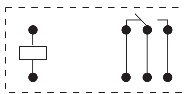

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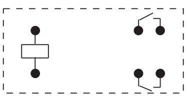

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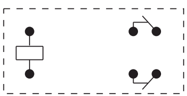

RFC2CH