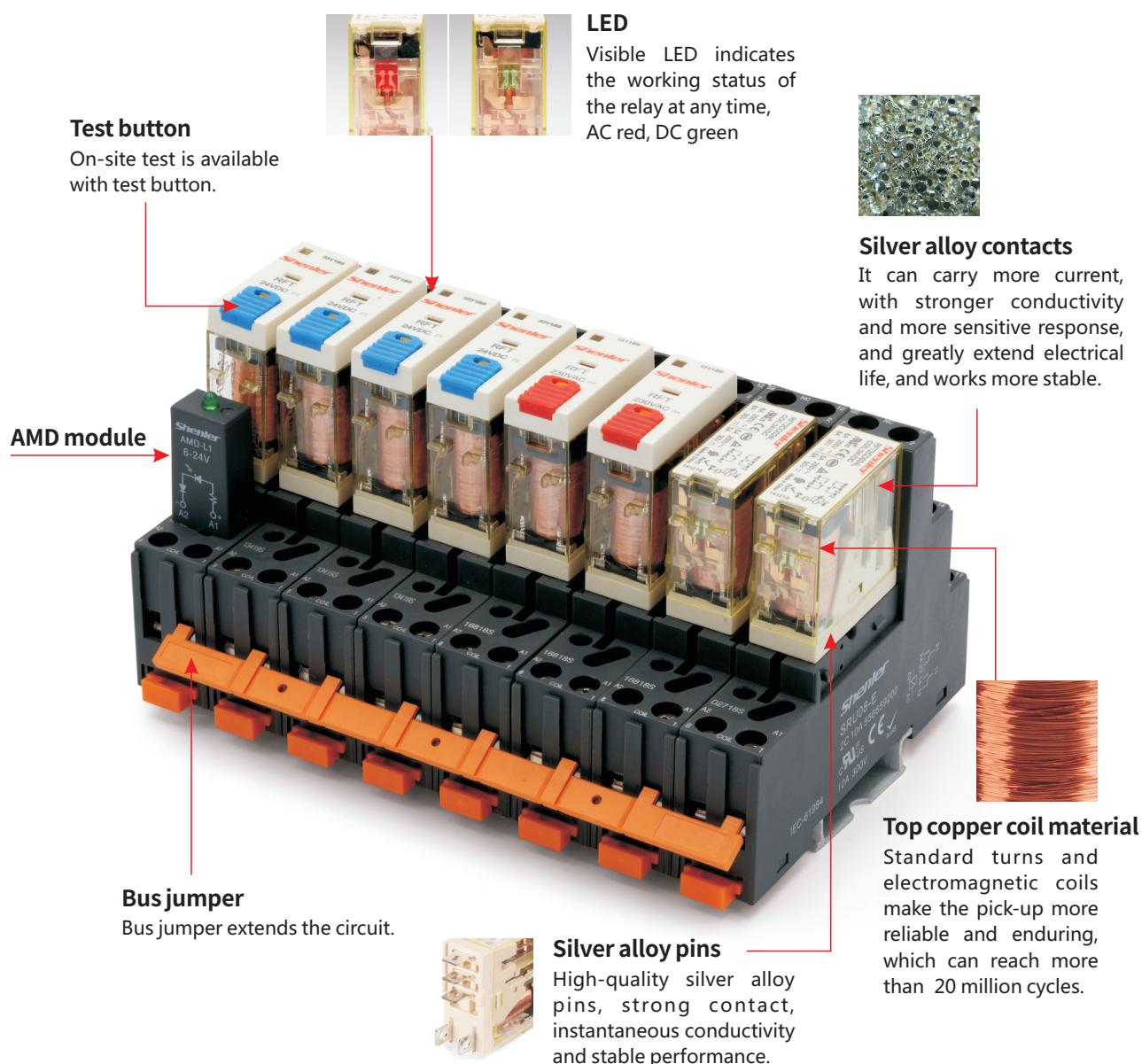


## Selection manual of industrial control relay

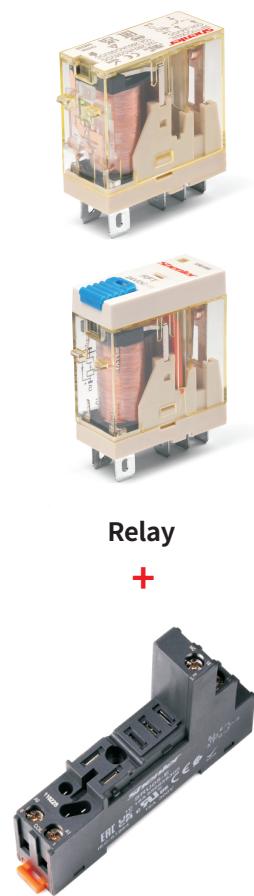
## RFT Interface Relay

- Slim and compact size
- 1 pole 12A; 2 pole 8A
- With non-polarity LED integrated in relay
- With lockable test button and inspection window
- Identification of coils through test button color (AC red/DC blue)
- Conformity with RoHS Directive



# Selection manual of industrial control relay

## RFT Interface Relay



**Relay**  
+

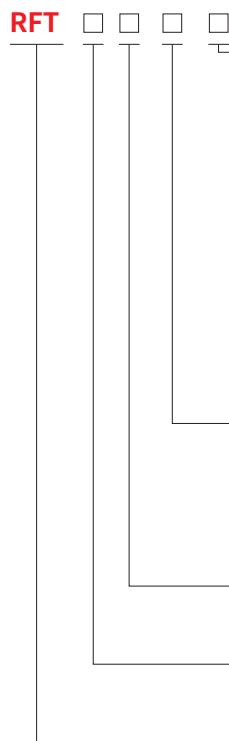


**Socket**

=



**Relay module**



### Other options

- blank: standard type
- L: with LED
- D: with diode (1-,5+ ; 1-,8+)
- D1: with diode(1+,5- ; 1+,8-)
- LD: with LED and diode (1-,5+ ; 1-,8+)
- LD1: with LED and diode (1+,5- ; 1+,8-)
- LT: LED + Test button
- LTD: LED + test button+diode (1-,5+ ; 1-,8+)
- LTD1: LED + test button+diode (1+,5- ; 1+,8-)
- B: cover with flange (selection plus B, namely LB,DB,LDB, etc.)
- A:gold plated contact

### Coil voltage code

Code	006	012	024	048	110	
Voltage (V DC)	6	12	24	48	110	
Code	506	524	536	548	615	730
Voltage (V AC)	6	24	36	48	115	230

### Terminal arrangement

O: plug in

### Contact form

- 1C: 1CO
- 2C: 2CO

### Series name

## Characteristics

	1C	2C
Configuration		
Load Resistance	12A/250VAC, 30VDC	8A/250VAC, 30VDC
Motor load	1/3HP, 240VAC	1/6HP, 240VAC
Max. switching capacity (resistive)	3000VA, 360W	2000VA, 240W
Min. switching capacity	170mW(17V/10mA)	
Initial contact resistance	$\leq 50\text{m}\Omega$	
Material	Ag alloy	
Electrical durability (high temp., frequency 1s on, 1s off)	$\geq 20 \times 10^4$ Cycles (1800 Ops/h)	
Electrical durability (normal temp., frequency 1s on, 5s off)	$\geq 30 \times 10^4$ Cycles(600 Ops/h)	
Mechanical durability	$\geq 2000 \times 10^4$ Cycles (18000 Ops/h)	
Pick-up voltage (23°C) (Rated voltage)	DC: $\leq 75\%$ ,AC: $\leq 80\%$ 50/60Hz	
Drop-out voltage (23°C) (Rated voltage)	DC: $\geq 10\%$ ,AC: $\geq 30\%$ 50/60Hz	
Maximum voltage (23°C)(Rated voltage)	110%	
Insulation resistance	$\geq 1000\text{M}\Omega$ (500VDC)	
Coil operating power	DC(W) AC(VA)	approx. 0.53 approx. 1.0(60Hz)
Operate time (at nominal voltage)	$\leq 20\text{ms}$	
Release time (at nominal voltage)	$\leq 10\text{ms}$	
Initial breakdown voltage	Between open contacts Between poles Between contacts and coil	1000VAC/1min (leakage current 1mA) 3000VAC/1min (leakage current 1mA) 5000VAC/1min (leakage current 1mA)
Insulation characteristics	Rated voltage	250VAC
IEC 60664 UL840	Pollution level	3
	Overvoltage level	III
	Impulse withstand voltage (waveform: 1.2/50μs)	4000V(Altitude 2000m)

# Selection manual of industrial control relay

## RFT Interface Relay

Protection level	IP20				
Storage temperature/ humidity	-55~+85°C/5%~68%RH				
Working temperature/ humidity	-40~+55°C/5%~85%RH((No condensation)				
Air pressure	86~106KPa				
Shock resistance	10G (half-sine shock pulse: 11ms)				
Vibration resistance	10~55Hz double-amplitude:1.0mm				
Mounting	plug in				
Unit weight	approx. 18g				

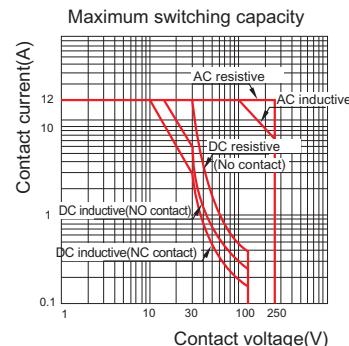
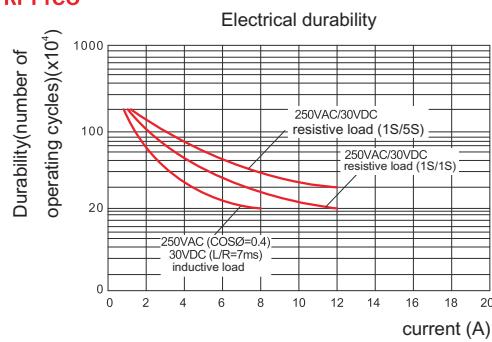
### Coil Specifications (23°C)

Nominal voltage V.DC	6	12	24	48	110	
Coil resistance Ω	68	270	1100	4400	22800	
Nominal voltage V.AC	6	12	24	48	115	230
Coil resistance Ω	16	63	260	1100	6300	23500

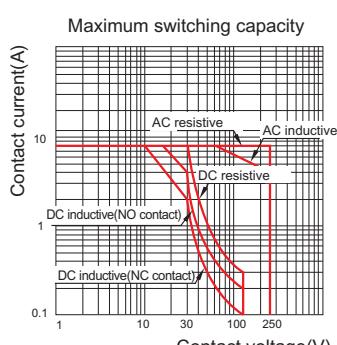
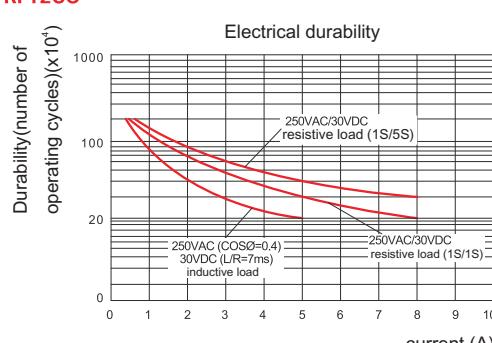
Coil resistance: under coil voltage 110V are measured with tolerance of  $\pm 10\%$ , above 110V with tolerance of  $\pm 15\%$ .

### Contact Specification

**RFT1CO**



**RFT2CO**

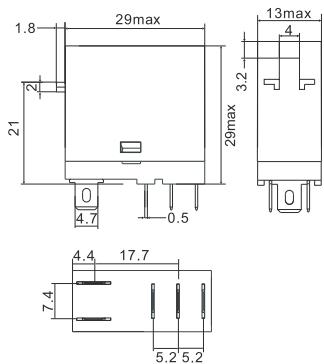


# Selection manual of industrial control relay

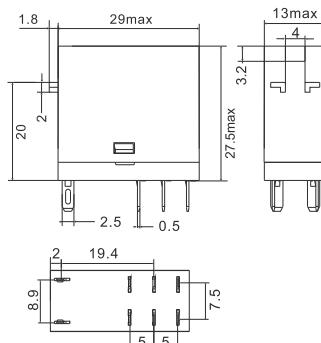
## RFT Interface Relay

### Dimensions (mm)

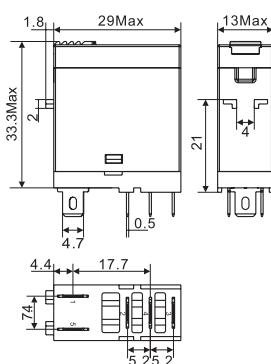
**RFT1CO**



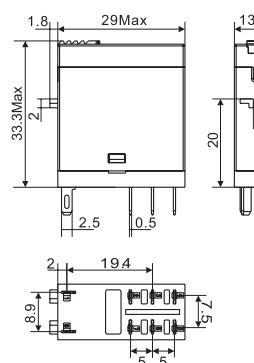
**RFT2CO**



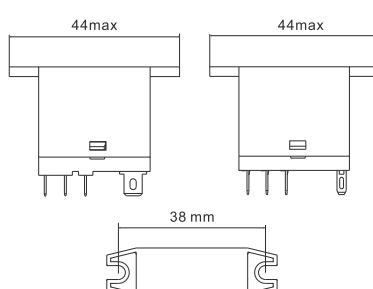
**RFT1CO-LT**



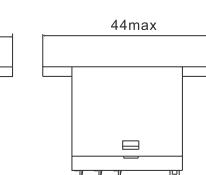
**RFT2CO-LT**



**RFT1CO-B**

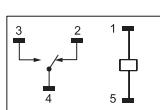


**RFT2CO-B**

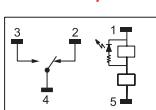


### Wiring Diagrams

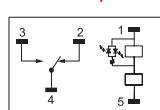
**RFT1CO**



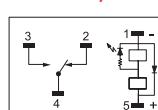
**RFT1COL/LT AC**



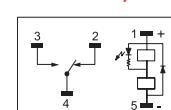
**RFT1COL/LT DC**



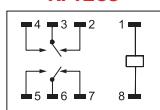
**RFT1COLD/LTD DC**



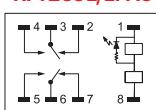
**RFT1COLD1/LTD1**



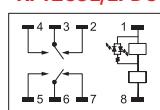
**RFT2CO**



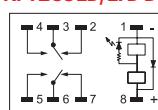
**RFT2COL/LT AC**



**RFT2COL/LT DC**



**RFT2COLD/LTD DC**



**RFT2COLD1/LTD1**

