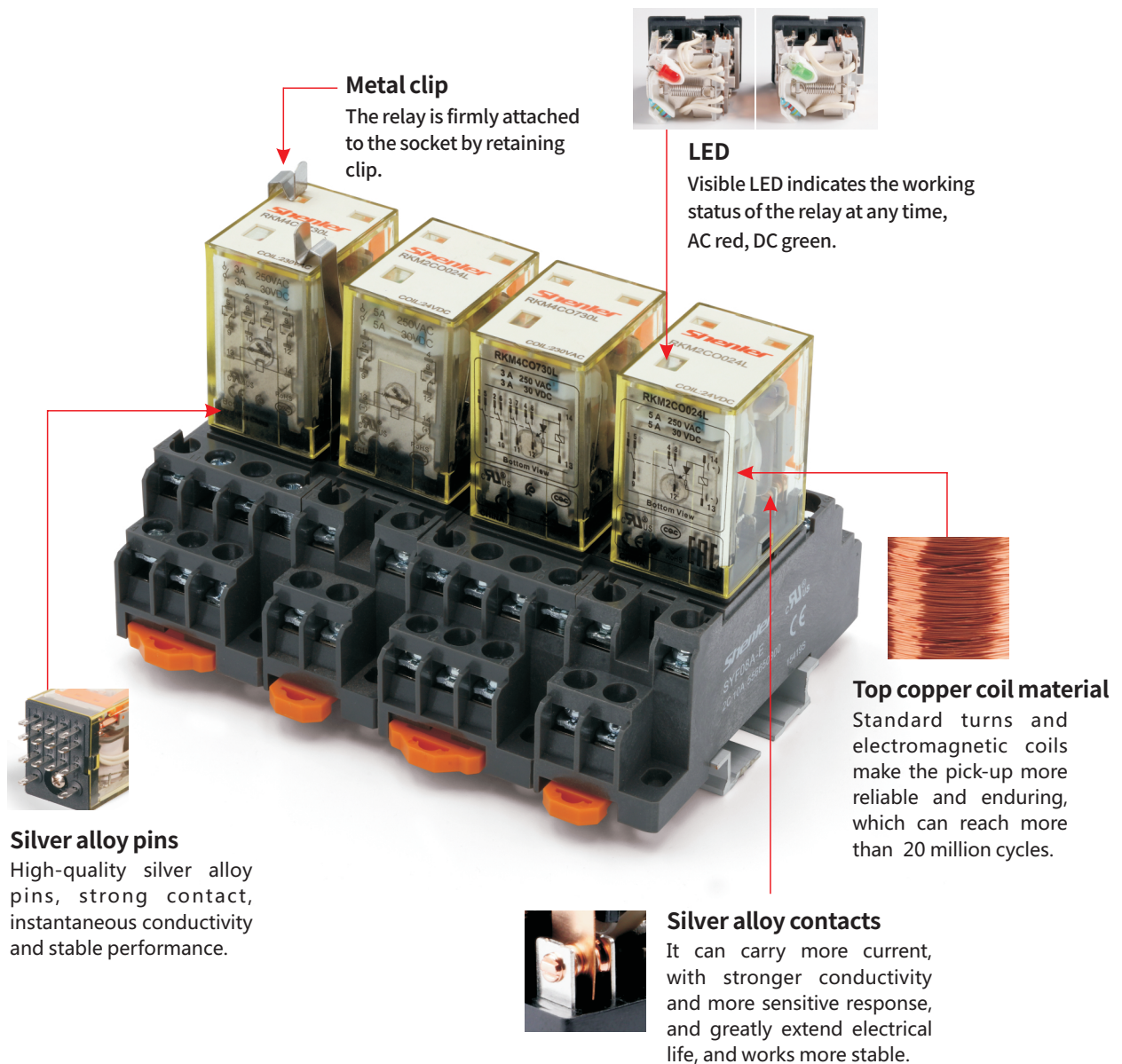


Selection manual of industrial control relay

RKM

Miniature General Purpose Relay

- 2 poles 5A, 4 poles 3A
- With LED integrated in relay
- With inspection window
- 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.





Relay

+



Socket

=



Relay module

RKM □ □ □ □

Other options

L: LED

LD: LED + diode (13-,14+)

LD1: LED+diode(13+, 14-)

Coil voltage code

Code	006	012	024	048	110	220	
Voltage (V DC)	6	12	24	48	110	220	
Code	506	524	536	548	615	730	880
Voltage (V AC)	6	24	36	48	115	230	380

Mount options

O: plug in

Contact form

2C: 2CO

3C: 3CO

4C: 4CO

Series name

Characteristics

Configuration		2C/3C	4C
Load	Resistance	5A/250VAC, 30VDC	3A/250VAC, 30VDC
	Motor load	1/3HP, 240VAC	1/6HP, 240VAC
Contact	Max. switching capacity (resistive)	1250VA, 150W	750VA, 90W
	Min. switching capacity	170mW(17V/10mA)	
	Initial contact resistance	≤50mΩ	
	Material	Ag alloy	
	Electrical durability	≥10 x 10 ⁴ Cycles (1800 Ops/h)	
	Mechanical durability	≥2000 x 10 ⁴ Cycles (18000 Ops/h)	
	Pick-up voltage (23°C) (Rated voltage)	DC:≤75%, AC:≤80% 50/60Hz	
Drop-out voltage (23°C) (Rated voltage)		DC:≥10%, AC:≥30% 50/60Hz	
Maximum voltage (23°C) (Rated voltage)		110%	
Insulation resistance		≥500MΩ (500VDC)	
Coil operating power	DC(W)	approx. 0.9	
	AC(VA)	approx. 1.2	
Operate time&Release time (at nominal voltage)		≤20ms	
Initial breakdown voltage	Between open contacts	1000VAC/1min (leakage current 1mA)	
	Between poles	2000VAC/1min (leakage current 1mA)	
	Between contacts and coil	2000VAC/1min (leakage current 1mA)	
Insulation characteristics	Rated voltage	250VAC	
	Pollution level	3	2
	IEC 60664 UL840 Overvoltage level	III	II
Impulse withstand voltage (waveform: 1.2/50us)		4000V	
Protection level		IP20	
Storage temperature/ humidity		-55~+85°C/ ≤85%RH (18 months)	
Working temperature/ humidity		-55~+70°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. 35g	

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

Coil Specifications (23°C)

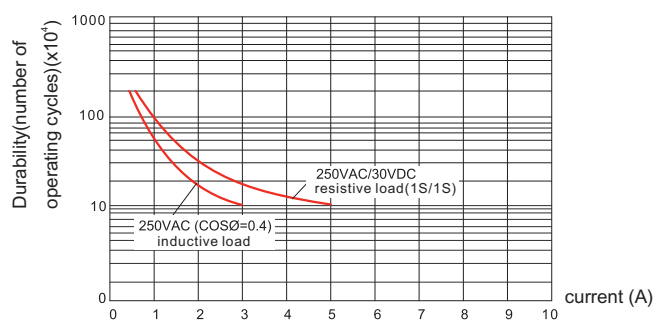
Nominal voltage V.DC	6	12	24	48	110	220	
Coil resistance Ω	40	180	640	2600	13000	42000	
Nominal voltage V.AC	6	24	36	48	115	230	380
Coil resistance Ω	11.5	180	370	640	4430	16500	42000

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

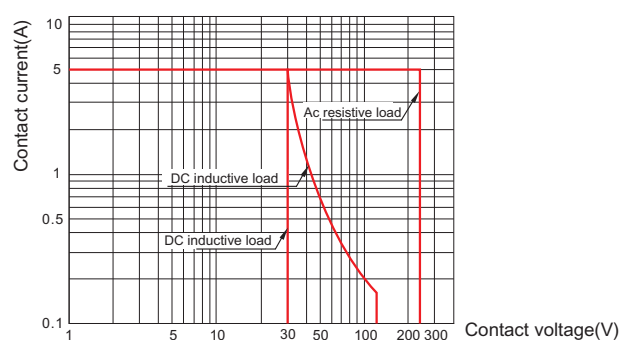
Contact Specification

RKM2CO

Electrical durability contacts

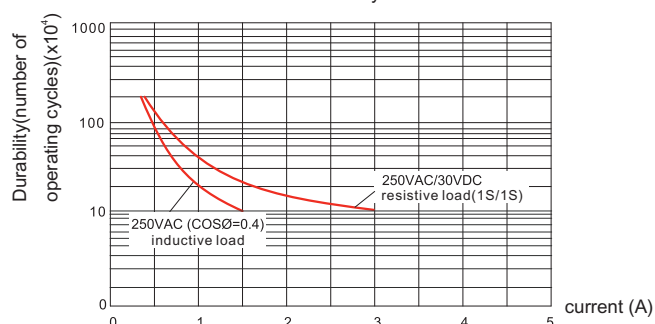


Maximum switching capacity

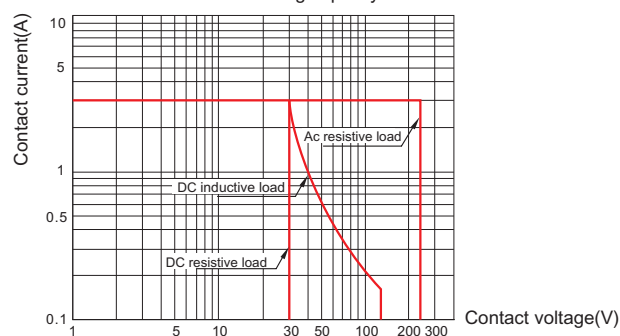


RKM4CO

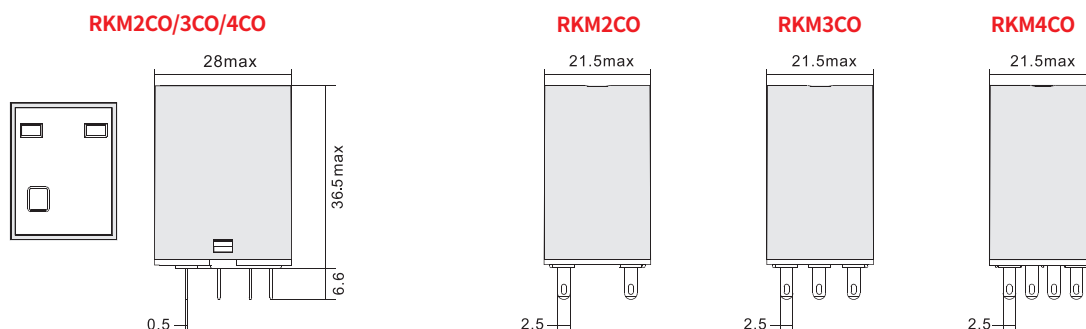
Electrical durability contacts



Maximum switching capacity

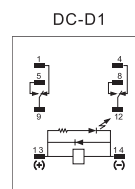
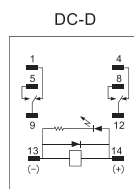
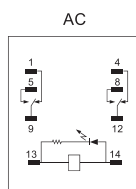
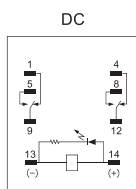
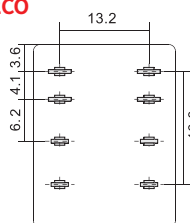


Dimensions (mm)

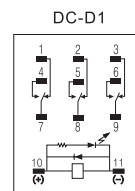
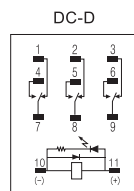
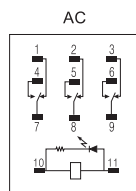
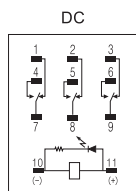
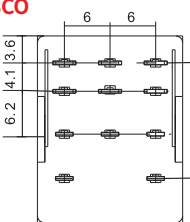


Wiring Diagrams

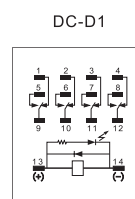
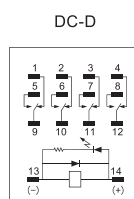
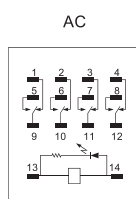
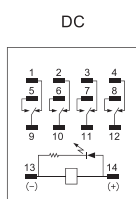
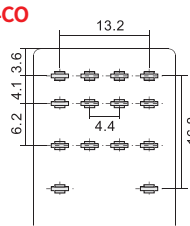
RKM2CO



RKM3CO



RKM4CO





SYF08A-E



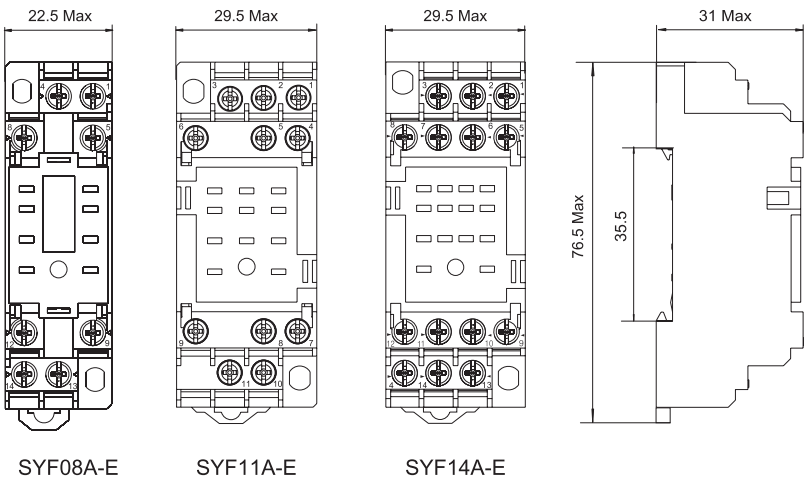
SYF14A-E



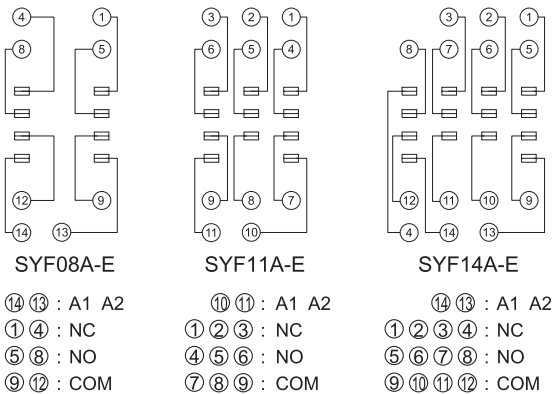
Characteristics

Type			SYF08A-E	SYF11A-E	SYF14A-E
Nominal load	Current	A	10	7	7
	Voltage	V	300		
Dielectric strength		V/min	2000		
Max. tightening torque		Nm	1.0		
Wire size		AWG/mm ²	20-16/0.5-1.5		
Ambient temperature		°C	-40~+85		
Unit weight		g	37	56	57
Accessories					
Socket		Metal clip			
SYF08A-E					
SYF11A-E					
SYF14A-E					
		SY36S			

Dimensions (mm)



Connection Diagrams





SYF08A



SYF14A

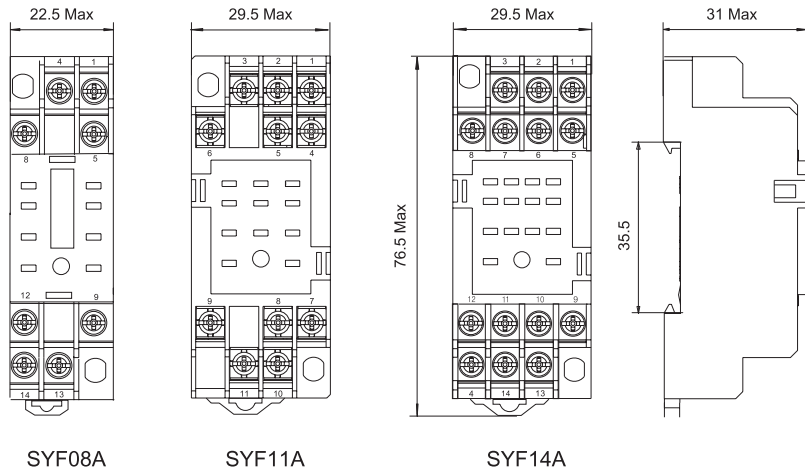
Characteristics

Type		SYF08A	SYF11A	SYF14A
Nominal Current	A	10	7	7
load Voltage	V	300		
Dielectric strength	V/min	2000		
Max. tightening torque	Nm	1.0		
Wire size	AWG/mm ²	20-16/0.5-1.5		
Ambient temperature	°C	-40~+85		
Unit weight	g	34	47	56

Accessories

Socket	Metal clip
SYF08A	 SY36S
SYF11A	
SYF14A	

Dimensions (mm)



Connection Diagrams

