

Selection manual of industrial control relay

RKF

Miniature General Purpose Relay

- 2 poles 12A; 4 poles 6A
- 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
- Gold plated contacts optional

LED

Visible LED indicates the working status of the relay at any time, AC red, DC green.

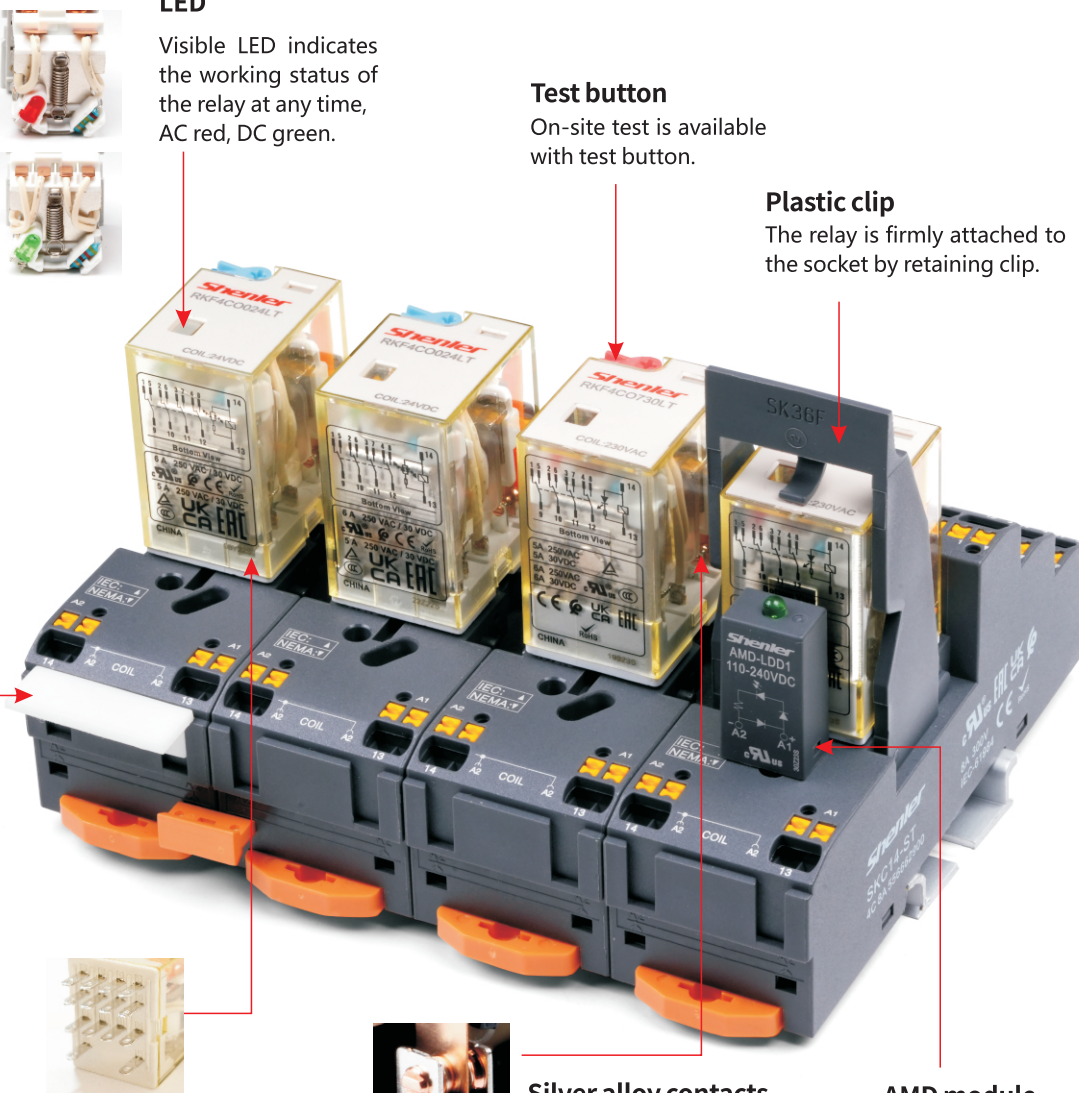
Test button

On-site test is available with test button.

Plastic clip

The relay is firmly attached to the socket by retaining clip.

ID tag



High quality alloy pins

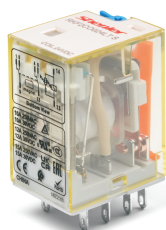
Strong contact, instantaneous conductivity and stable performance.

Silver alloy contacts

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

AMD module





Relay

+



Socket

=



Relay module

RKF □ □ □ □

Other options

LT S: LED + test button+magnet
LTD S: LED + test button +diode (13 -, 14 +) +magnet
LTD1 S: LED + test button + diode (13 +, 14 -) +magnet
LT SM: LED+test button+magnet, with 0.65Un coil tuned

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

Terminal arrangement

O: plug in

Contact form

2C: 2CO

Series name

- ◆ Good performance for motor load application.With non-polarity LED,lockable test button and inspection window
- ◆ Identification of coil through test button color (AC red / DC blue)

Characteristics

Configuration		2C
Load	Resistance	15A/250VAC 30VDC (NO:15A, NC:7.5A); 10A 60VDC
	Motor load	1/3HP, 240VAC
Contact	Max.Switching capacity (resistive)	3750VA, 600W
	Max.Switching capacity (inductive)	2500VA, 90W
	Min. switching capacity	170mW(17V/10mA)
	Initial contact resistance	≤50mΩ
	Material	Ag alloy
Electrical durability (110%rated voltage, 55°C)		≥10 x 10 ⁴ Cycles(NO:15A, NC:7.5A); ≥20 x 10 ⁴ Cycles(NO/NC:12A)
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		≥1000MΩ (500VDC)
Coil operating power	DC(W)	approx. 0.9
	AC(VA)	approx. 1.2(60Hz)
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
	IEC 60664 UL840 Overvoltage level	III
Protection level		IP20
Storage temperature/ humidity		-25~+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

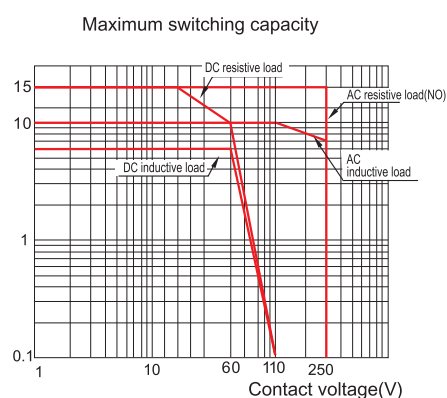
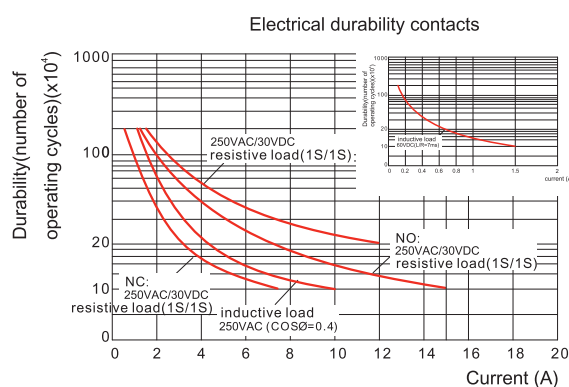
Coil Specifications (23°C)

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

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

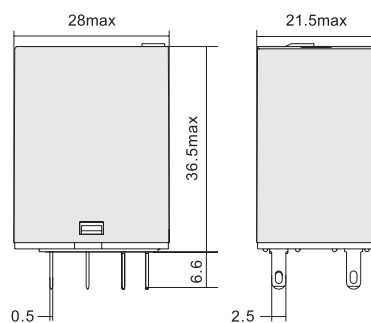
Contact Specification

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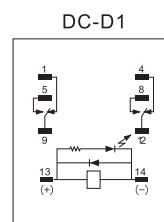
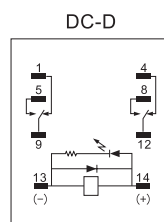
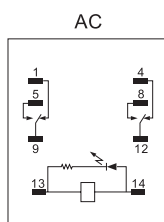
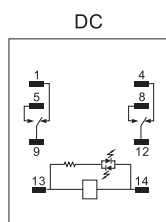
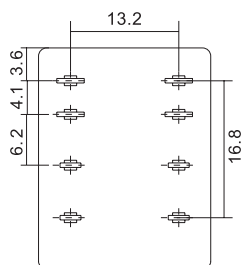
Dimensions (mm)

RKF2CO



Wiring Diagrams

RKF2CO



SYF08A-E S

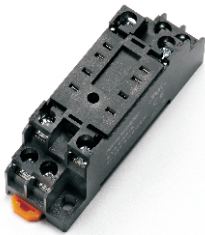
RKF-S Magnetic Blow-out
Power Relay Socket



Characteristics

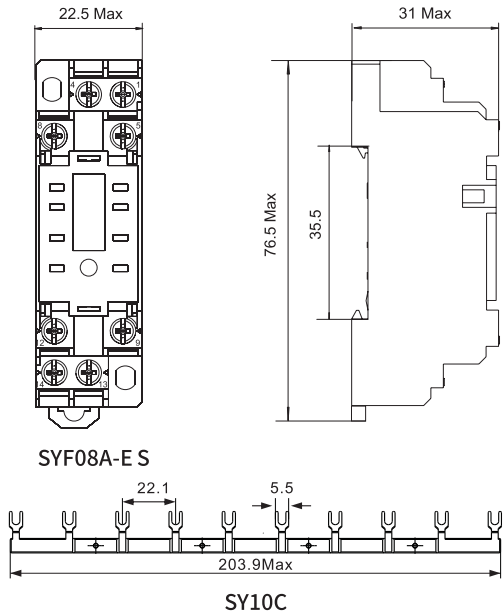


SYF08A-E S

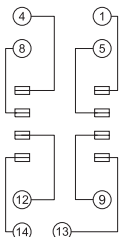


Type			SYF08A-E S
Nominal load	Current	A	15
	Voltage	V	300
Dielectric strength	Between coil and contact	V/min	3000
	Between contacts	V/min	2000
Max. tightening torque		Nm	1.0
Wire size		AWG/mm ²	20-14/0.5-2.5
Ambient temperature		°C	-40~+65
Unit weight		g	37
Accessories			
Socket		Bus jumper	Metal clip
SYF08A-E S			
		SY10C	SY36S

Dimensions (mm)



Connection Diagrams



⑭ ⑬ : A1 A2
① ④ : NC
⑤ ⑧ : NO
⑨ ⑫ : COM

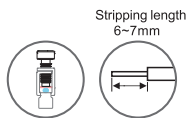
SYF08A-E S

SKC08-E S

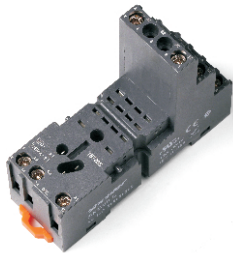
RKF-S Magnetic Blow-out
Power Relay Socket



Characteristics



SKC08-E S

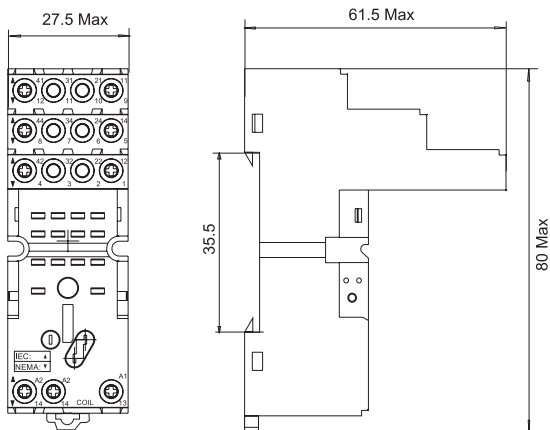


Type		SKC08-E S
Nominal load	Current	A
	Voltage	V
Dielectric strength	Between coil and contact	V/min
	Between contacts	V/min
Max. tightening torque		Nm
Wire size		AWG/mm ²
Ambient temperature		°C
Unit weight		g

Accessories

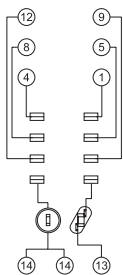
Socket	Plastic clip	Metal clip	ID tag	Module
SKC08-E S	 SK36F	 SK36M	 SK4P	 AMD

Dimensions (mm)



SKC08-E S

Connection Diagrams



⑬ ⑭ : A1 A2
① ④ : NC
⑤ ⑧ : NO
⑨ ⑫ : COM

SKC08-E S