Selection manual of industrial control relay

RKF

Miniature General Purpose Relay



Relay

+



Socket

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Relay module

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Other options

LT: LED + test button
LTD: LED + test button + diode (13-,14+)
LTD1: LED + test button + diode (13+,14-)
LTA: LED + test button + gold plated contact
LTDA: LED + test button + diode+gold plated contact
LT M: LED+test button, 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
4C: 4CO

Series name

Characteristics

Contact	Configuration		2C	4C
	Load	Resistance	12A/250VAC, 30VDC	6A/250VAC, 30VDC
		Motor load	1/3HP, 240VAC	1/6HP,240VAC
	Max. switching capacity (resistive)		3000VA, 360W	1500VA, 180W
	Min. switching capacity		170mW(17V/10mA); LTA: 500mW(5V/100mA)	
	Initial contact resistance		≤50mΩ	
	Material		Ag alloy	
	Electric durability(110%rated voltage, 55℃)		≥20 x 10^4Cycles (1800 Ops/h)	
	Electric durability (Normal temperature)		≥40 x 10^4Cycles (360 Ops/h)	
	Mechanical durability		≥2000 x 10^4Cycles (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℃) (Rated voltage)			110%	
Insulation resistance			≥1000MΩ (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 IEC 60664 UL840		Rated voltage	250VAC	
		Pollution level	3	2
		Overvoltage level	III	II
Impulse withstand voltage (waveform: 1.2/50μs)			4000V	
Protection level			IP20	
Storage temperature/ humidity			-55~+85℃/ ≤85%RH (18 months)	
Working temperature/ humidity			-55~+70℃/ 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	

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Miniature General
Purpose Relay

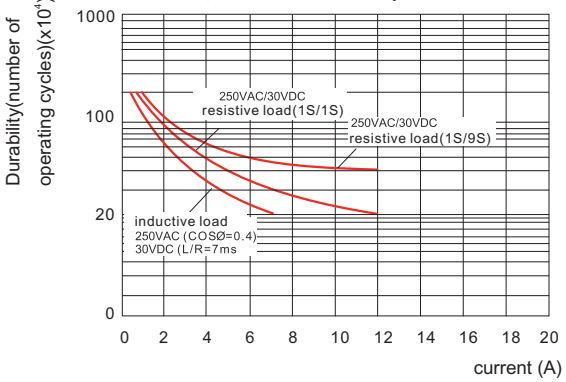
Coil Specifications (23°C)

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

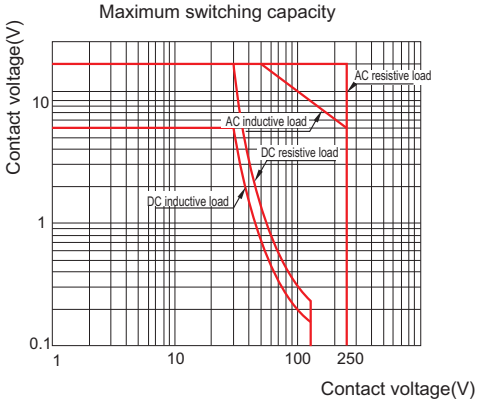
Coil resistance: under coil voltage 110V are measured with tolerance of ±10%Ω, above 110V with tolerance of ±15%Ω.

Contact Specification

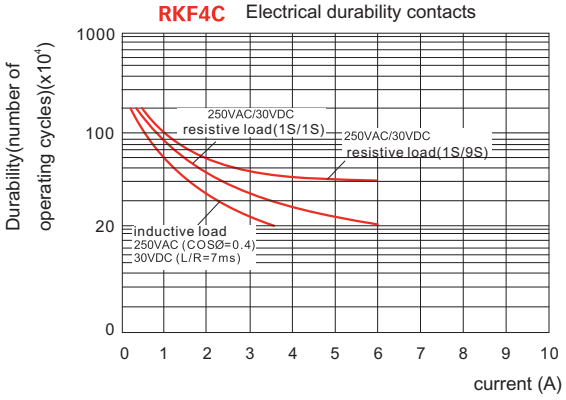
RKF2C Electrical durability contacts



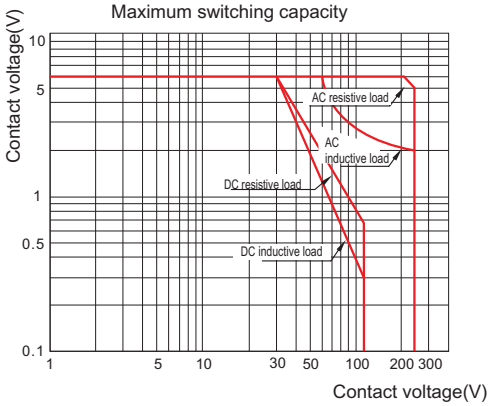
Maximum switching capacity



RKF4C Electrical durability contacts



Maximum switching capacity

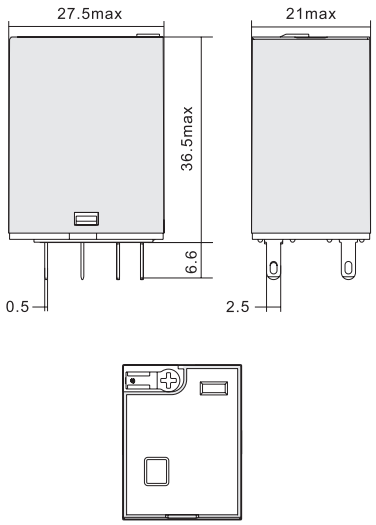


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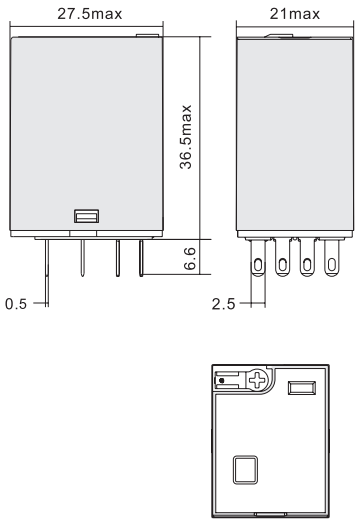
Miniature General
Purpose Relay

Dimensions (mm)

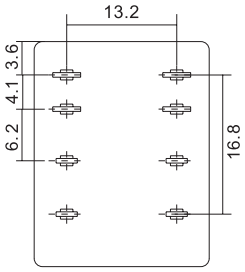
RKF2CO



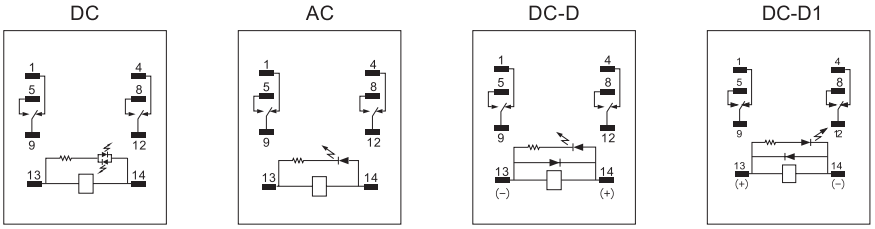
RKF4CO

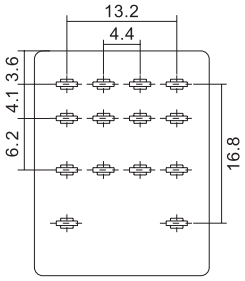


Wiring Diagrams



RKF2CO





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