

RR2KP Series Latch Relays

Self-maintained Latch Relays DPDT — 10A contact capacity

The RR2KP series latch relays have a self-holding function using permanent magnets in the magnetic circuit. Applying a voltage on the set (or reset) coil operates the armature and retains the contacts in that position until the opposite coil is energized, hence the latch relays are ideal for memory and flip-flop circuit applications.

- Enhanced self-holding functions, and vibration and shock resistance.
- The self-holding mechanism is not subject to wear unlike mechanical latch relays.
- · Recognized by UL and certified by CSA







Part Number Selection

		Part Number	
Contact	Model	Pin Terminal	Coil Voltage Code
DPDT	Basic	RR2KP-U	AC6, AC12, AC24, AC110, AC120, AC220, AC240
Man Tana	With Check Button	RR2KP-UC	DC6, DC12, DC24, DC48, DC110

Ordering Information

When ordering, specify the Part No. and coil voltage code:

(example) RR2KP-U

AC120

Part No. -Coil Voltage Code

Sockets

Relay	DIN Rail Mount	Finger-safe DIN Rail Mount	Panel Mount
RR2KP	SR3P-05 SR3P-06	SR3P-05C	SR3P-51
	- Contract		



Springs & Clips (optional)			
Part Number	Description		
SR3P-06F3	use with SR3P-05 SR3P-05C SR3P-06		
SR3P-511F3	use with SR3P-51		





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Specifications

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Contact Material	act Material Silver				
Contact Resistance	30 mΩ maximum (initial value)				
Operate Time	25 ms maximum (at the rated voltage)			
Power Consumption (approx.)	AC: 2.4 VA (50 Hz DC: 1.5W), 2.2 VA (60 Hz)			
Insulation Resistance	100 MΩ minimum	n (500V DC megger)			
Dielectric Strength	Between live and dead parts: 1,500V AC, 1 minut Between contact and coil: 1,500V AC, 1 minut Between contacts of different poles: 1,500V AC, 1 minut Between contacts of the same pole: 1,000V AC, 1 minut				
Onesting Fraguency	Electrical:	1800 operations/h maximum			
Operating Frequency	Mechanical:	18,000 operations/h maximum			
Temperature Rise	Coil: 85°C maximum, Contact: 65°C maximum				
Vibration Resistance	0 to 60 m/s² (maximum frequency: 55 Hz), Frequency: 5 to 55 Hz, Amplitude: 0.5 mm				
Shock Resistance	100 m/s² minimum				
Mechanical Life	5,000,000 operations minimum				
Electrical Life	500,000 operations minimum (110V AC, 10A)				
Operating Temperature	-5 to +40°C (no freezing)				
Operating Humidity	45 to 85% RH (no condensation)				
Weight (approx.)	t (approx.) 170g				

Coil Ratings

Rated Voltage (V)		Rated Current (mA) ±15% at 20°C		Coil Resistance (Ω)	Operation Characteristics (values at 20°C)		
		50Hz	60Hz	±10% at 20°C	Maximum Continuous Applied Voltage	Set and Reset Voltage	
	6	467	429	3.5		80% maximum	
	12	200	184	23.8			
OHz)	24	100	92	95			
AC (50/60Hz)	110	23	21	1,900	110%		
AC (120	24	22	2,200			
	220	10.9	10	7,740			
	240	11.5	10.6	9,190			
	6	240		25	110%	80% maximum	
	12	120		100			
DC	24	60		400			
	48	3	0	1,600		maximum	
	110	13	13.8				

Contact Ratings

Maximum Contact Capacity						
Switching	Continuous Current	Allowable Contact Power		Rated Load		
Voltage		Resistive Load	Inductive Load	Voltage (V)	Res. Load	Ind. Load
	10A	1650VA AC 300W DC	1100VA AC 225W DC	110 AC	10A	7.5A
250V AC				220 AC	7.5A	5A
125V DC				30 DC	10A	5A
				100V DC	0.5A	0.3A

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Note: Inductive load for the rated load — cos ø = 0.3, L/R = 7 ms

UL Ratings

Voltage Resistive		General use	Motor Load
240V AC	10A	7A	1/3 HP
120V AC	10A	7.5A	1/4 HP
30V DC	10A	7A	_

CSA Ratings

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Voltage	Resistive	General use	Motor Load
240V AC	10A	7A	1/3 HP
120V AC	10A	7.5A	1/4 HP
100V DC	_	0.5A	_
30V DC	10A	7.5A	_