Switches & Pilot Lights

Display Lights

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
	With Check Button	RR2KP-UC	DC6, DC12, DC24, DC48, DC110
			Ordering Information

Urdering Information When ordering, specify the Part No. and coil voltage code: (example) RR2KP-U Part No. Coil Voltage Code

Timers

Relays & Sockets

Palay	Relay DIN Rail Mount Finger-safe DIN Rail Mount Panel Mount	Springs & Clips (optional)			
neidy		Part Number	Description		
RR2KP	SR3P-05 SR3P-06	SR3P-05C SR3P-51		SR3P-06F3	use with SR3P-05 SR3P-05C SR3P-06
				SR3P-511F3	use with SR3P-51
	A FI	R			

Terminal Blocks



Relays & Sockets

Specifications

Contact Material	Silver			
Contact Resistance	$30 \text{ m}\Omega$ maximum (initial value)			
Operate Time	25 ms maximum (at the rated voltage)			
Power Consumption (approx.)	AC: 2.4 VA (50 Hz), 2.2 VA (60 Hz) DC: 1.5W			
Insulation Resistance	100 MΩ minimum	(500V DC megger))	
Dielectric Strength	Between live and dead parts: 1,500V AC, 1 minu Between contact and coil: 1,500V AC, 1 minu Between contacts of different poles: 1,500V AC, 1 minu Between contacts of the same pole: 1,000V AC, 1 minu			
Operating Frequency	Electrical:	1800 operations/h maximum		
Operating rrequency	Mechanical:	18,000 operations/h maximum		
Temperature Rise	Coil: 85°C maximum, Contact: 65°C maximum			
Vibration Resistance	0 to 60 m/s ² (maximum frequency: 55 Hz), Frequency: 5 to 55 Hz, Amplitude: 0.5 mm			
Shock Resistance	100 m/s ² minimum			
Mechanical Life	5,000,000 operati	ons 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.)	170g			

Coil Ratings

Rated Voltage (V)		Rated Current (mA) ±15% at 20°C		Coil Resistance (Ω)	Operation Characteristics (values at 20°C)			
nate	50Hz 60Hz		60Hz	±10% at 20°C	Maximum Continuous Applied Voltage	Set and Reset Voltage		
	6	467	429	3.5				
	12	200	184	23.8				
(zHO	24	100	92	95				
AC (50/60Hz)	110	23	23 21 1,900 110%	110%	80% maximum			
AC (120 I20	24	22	2,200				
	220	10.9	10	7,740				
	240	11.5	10.6	9,190				
	6	240		25				
	12 12		20	100				
DC	2 4	24 60 48 30 110 13.8		400	110%	80% maximum		
	48			1,600				
	110			7,960				

Contact Ratings

Maximum Contact Capacity							
0. 11 1	Continuous Current	Allowable Co	Rated Load				
Switching Voltage		Resistive Load	Inductive Load	Voltage (V)	Res. Load	Ind. Load	
		1650VA AC	1100VA AC	110 AC	10A	7.5A	
250V AC	250V AC 10A			220 AC	7.5A	5A	
125V DC	300W DC	225W DC	30 DC	10A	5A		
				100V DC	0.5A	0.3A	

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

UL Ratings Voltage

vonage	Resistive	General use	WOLOF LOAD
240V AC	10A	7A	1/3 HP
120V AC	10A	7.5A	1/4 HP
30V DC	10A	7A	—

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

IDEC

IDEC

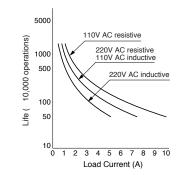
RR2KP Series

Relays & Sockets

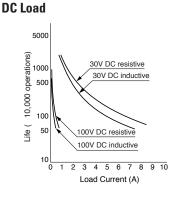
Socket Specifications

	Relays	Terminal	Electrical Rating	Wire Size	Torque
DIN Rail Mount Sockets	SR3P-05	M3 screw with captive wire clamp	300V, 10A	2-#12AWG	9 - 11.5 in • lbs
	SR3P-05C	M3 screw with captive wire clamp, fingersafe	300V, 10A	2-#12AWG	9 - 11.5 in • lbs
	SR3P-06	M3 screw with captive wire clamp	300V, 10A	2-#12AWG	9 - 11.5 in •lbs
Through Panel Mount Socket	SR3P-51	Solder	300V, 10A	_	

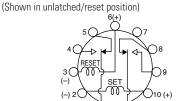
Electrical Life Curve AC Load



Standard DIN Rail Mount Sockets



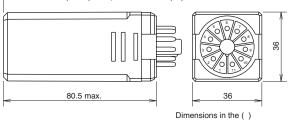
Internal Connection (View from Bottom)



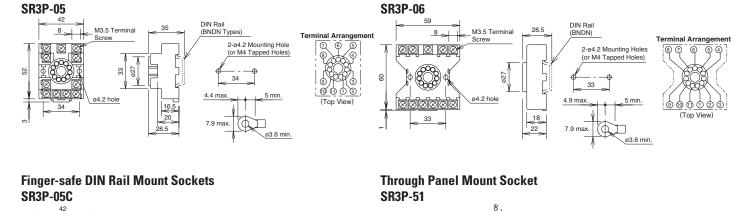
 $_{11}$

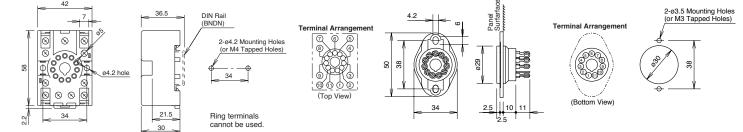
Dimensions (mm)

Total length from panel surface including relay socket SR3P-05: 105 (108.5) max., SR3P-51: 87.5 (92) max.



include a hold-down spring.





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