**Switches & Pilot Lights** 

**Display Lights** 

**Relays & Sockets** 

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# **RR2KP Series Latch Relays**

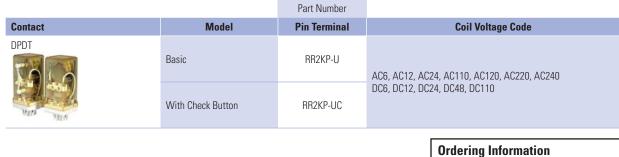
### Self-maintained Latch Relays DPDT — 10A contact capacity

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



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

Timers

Terminal Blocks

	Delen	DIN Rail Mount	Finance of a DIM Dail Manual	Daniel Marriet		Springs & Clips (optional)	
	Relay	DIN KAII WOUIIL	Finger-safe DIN Rail Mount	Panel Mount		Part Number	Description
RR2	'KP	SR3P-05 SR3P-06	SR3P-05C SR3P-51		SF	R3P-06F3	use with SR3P-05 SR3P-05C SR3P-06
					SF	R3P-511F3	use with SR3P-51

# **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 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 operati	ons minimum		
Electrical Life	500,000 operations minimum (110V AC, 10A)			
Operating Temperature	—5 to +40°C (no fr	eezing)		
Operating Humidity	45 to 85% RH (no	condensation)		
Weight (approx.)	170g			

### **Coil Ratings**

Data	d Voltogo (V)	Rated Current (n	nA) ±15% at 20°C	<b>Coil Resistance</b> (Ω)	Operation Characteristics (values at 20°C)			
Rated Voltage (V)		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				
(zHO	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				
	12	120		100				
DC	24	60		400	110%	80% maximum		
	48	30 13.8		1,600				
	110			7,960				

### **Contact Ratings**

	Maximum Contact Capacity							
Switching Continu Voltage Curre	0	Allowable Co	Rated Load					
	Current	Resistive Load	Inductive Load	Voltage (V)	Res. Load	Ind. Load		
		- 10Δ	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	

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

### UL Ratings Voltage

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							
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	—				

IDEC

# IDEC

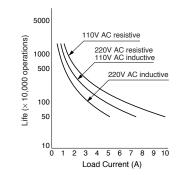
# **RR2KP Series**

# **Relays & Sockets**

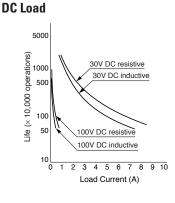
### **Socket Specifications**

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

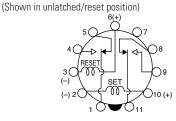
### Electrical Life Curve AC Load



**Standard DIN Rail Mount Sockets** 

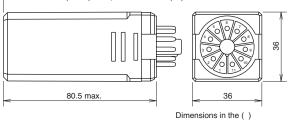


### Internal Connection (View from Bottom)

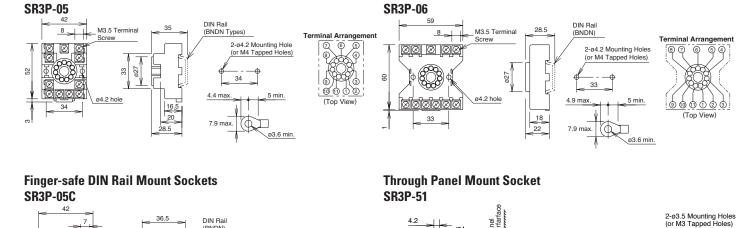


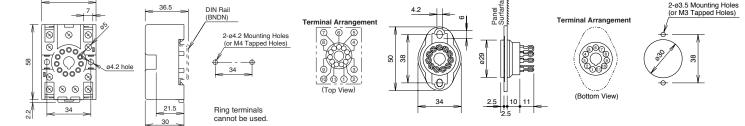
## **Dimensions (mm)**

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.





**Circuit Breakers** 

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