Switches & Pilot Lights

Display Lights

HILLIN

PIT

RR2KP Series Latch Relays

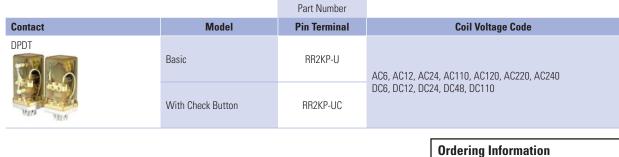
Self-maintained Latch Relays DPDT — 10A contact capacity

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



When ordering, specify the Part No. and coil voltage code: (example) RR2KP-U AC120 Part No. -Coil Voltage Code

Timers

Relay	DIN Rail Mount	Finger-safe DIN Rail Mount	Panel Mount		Springs & Clips (optional)			
					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		
	SEL.	PPF,						

Terminal Blocks

Relays & Sockets

Specifications

Contact Material	Silver			
Contact Resistance	$30\ m\Omega$ 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 contact Between contacts	Between live and dead parts: 1,500V AC, 1 min Between contact and coil: 1,500V AC, 1 min Between contacts of different poles: 1,500V AC, 1 min Between contacts of the same pole: 1,000V AC, 1 min		
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/s² (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 operations minimum			
Electrical Life	500,000 operation	s minimum (110V AC, 10,	۹)	
Operating Temperature	-5 to +40°C (no freezing)			
Operating Humidity	45 to 85% RH (no condensation)			
Weight (approx.)	170g			

Coil Ratings

Data	d Voltago (V)	Rated Current (mA) ±15% at 20°C		Coil Resistance (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				
	12	200	184	23.8				
(ZHO	24	100	92	95				
AC (50/60Hz)	110	23	21	1,900	110%	80% maximum		
AC (120	24	22	2,200				
	220	10.9	10	7,740				
	240	11.5	10.6	9,190				
	6	240 120 60 30 13.8		25				
	12			100				
DC	24			400	110%	80% maximum		
	48			1,600				
	110			7,960				

Contact Ratings

	Maximum Contact Capacity					
Switching	Continuous Current	Allowable Co	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

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

UL Ratings Voltage

Voltage	Kesistive	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

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Switches & Pilot Lights

Display Lights

Relays & Sockets

RR2KP Series

Relays & Sockets

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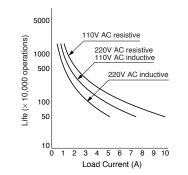
(Bottom View)

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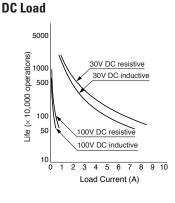
Socket Specifications

	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
	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	_	

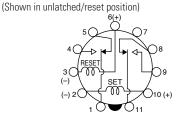
Electrical Life Curve AC Load



Standard DIN Rail Mount Sockets

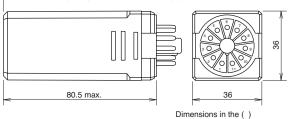


Internal Connection (View from Bottom)

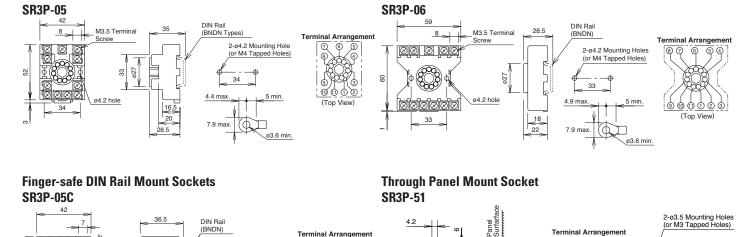


Dimensions (mm)

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.



Timers