Switches & Pilot Lights

Display Lights

Relays & Sockets

HILLIN V

PIT

RR2KP Series Latch Relays

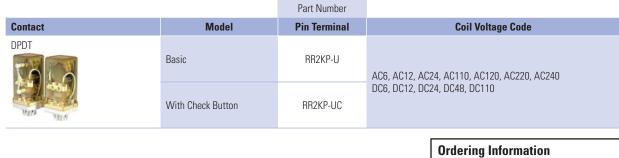
Self-maintained Latch Relays DPDT — 10A contact capacity

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: AC120 (example) RR2KP-U Part No. -Coil Voltage Code

Timers

Polov	Relay DIN Rail Mount Finger-safe DIN Rail Mount Panel Mount	Finner oofe DIN Deil Meunt	Danal Maunt		Springs & Clips (optional)	
neidy		F	Part Number	Description		
RR2KP	SR3P-05 SR3P-06	SB3P-050 SB3P-51		S	SR3P-06F3	use with SR3P-05 SR3P-05C SR3P-06
				S	SR3P-511F3	use with SR3P-51

REAM

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	dead parts:1,500V AC, 1 minuteand coil:1,500V AC, 1 minutes of different poles:1,500V AC, 1 minutes of the same pole:1,000V AC, 1 minute		
Operating Frequency	Electrical:	1800 operations/h maximum		
Operating riequency	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 operation	ns minimum (110V AC, 10A)		
Operating Temperature	—5 to +40°C (no fr	reezing)		
Operating Humidity	45 to 85% RH (no	condensation)		
Weight (approx.)	170g			

Coil Ratings

Poto	d Voltago (V)	Rated Current (mA) ±15% at 20°C		Coil Resistance (Ω)	Operation Characteristics (values at 20°C)			
nate	d 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	24	40	25				
	12	120		100				
DC	24	60		400	110%	80% maximum		
	48	30		1,600				
	110	13.8		7,960				

Contact Ratings

Maximum Contact Capacity							
Curitahing	vitching Continuous /oltage Current	Allowable Co	Rated Load				
Voltage		Resistive Load	Inductive Load	Voltage (V)	Res. Load	Ind. Load	
				110 AC	10A	7.5A	
250V AC	10A	1650VA AC	1100VA AC	220 AC	7.5A	5A	
125V DC	TUA	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 Resistive 240V AC 10A

240V AC	10A	7A	1/3 HP
120V AC	10A	7.5A	1/4 HP
30V DC	10A	7A	—

General use

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

Motor Load

IDEC

Switches & Pilot Lights

Display Lights

Relays & Sockets

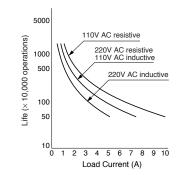
RR2KP Series

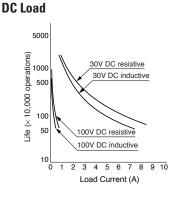
Relays & Sockets

Socket Specifications

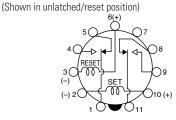
	Relays	Terminal	Electrical Rating	Wire Size	Torque
	SR3P-05	M3 screw with captive wire clamp	300V, 10A	2-#12AWG	9 - 11.5 in •lbs
DIN Rail Mount Sockets	SR3P-05C	M3 screw with captive wire clamp, fingersafe	300V, 10A	2-#12AWG	9 - 11.5 in • lbs
000000	SR3P-06	M3 screw with captive wire clamp	300V, 10A	2-#12AWG	9 - 11.5 in •lbs
Through Panel Mount Socket	SR3P-51	Solder	300V, 10A	_	

Electrical Life Curve AC Load





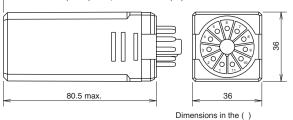
Internal Connection (View from Bottom)



(Bottom View)

Dimensions (mm)

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

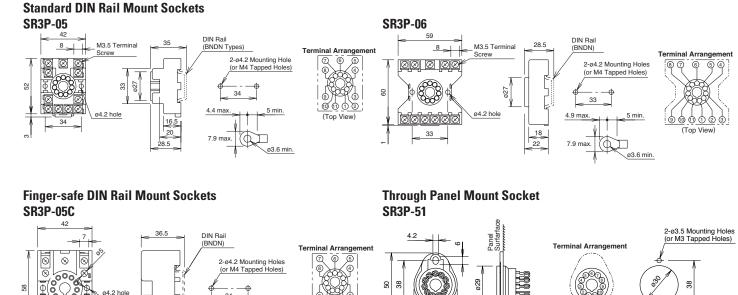


include a hold-down spring.

34

2.5 || 10

25



(Top V

<u>a a a</u>

34

21.5

30

Ring terminals

cannot be used.