IDEC Relays

RR2KP Series — Magnetic Latching Relays

Key features of the RR2KP series include:

- Standard octal base (11-pin) termination
- Operates by pulse input and maintains condition even during power failure
- Coils rated for continuous duty

Contact Material

- · High vibration and shock resistance
- Excellent self-holding performance (magnetic latch)
- Optional manual check button for circuit testing
- DIN rail, surface, and panel mount sockets available for a wide range of mounting applications

Silver



	Contact Material	Silvei			
	Contact Resistance	30m Ω maximum (initial value)			
	Minimum Applicable Load	5V DC, 100mA		UL Recognized File No. E66043	CSA Certified • File No.LR35144
	Operating Time	25ms maximum			_
	Maximum Continu- ous Applied Volt- age (AC/DC) at 20°C	110% of the rated voltage without overheating			
	Minimum Set and Reset Voltage at 20°C	80% of the rated voltage	Order standard vo non-standard volta	ltages for fastest o	nformation delivery. Allow extra delivery ti
	Power Consumption	AC: approximately 2.4VA (50Hz), 2.2VA (60Hz) DC: approximately 1.5W		Basic Part No.	Coil Voltage:
ations	Insulation Resistance	100M Ω minimum (with 500V DC megger)		RR2KP-U	AC120V
Snecifications	Dielectric Strength	Between live and dead parts: 1,500V AC, 1 minute Between contact circuit and opposite coil: 1,500V AC, 1 minute Between contact circuits: 1,500V AC, 1 minute (1,000V between NO-NC contacts)			
	Frequency Response	1,800 operations/hour			
	Temperature Rise	Coil: 85°C maximum; Contact: 65°C maximum			
	Vibration Resistance	0 to 6G (55Hz maximum)			
	Shock Resistance	100N (approximately 10G)			
	Life Expectancy	Electrical: over 500,000 operations (120V, 10A) Mechanical: over 5,000,000 operations			
	Operating Temperature	-30 to +70°C			
	Weight	170g (approximately)			

delivery time for

Part Numbers

Relays **IDEC**

Part Numbers: RR2KP Series

Termination	Contact Configuration	Standard	With Check Button
P: 11-Pin	DPDT	RR2KP-U	RR2KP-UC

Ratings

Coil Ratings

	Rated Current ±15% at 20°C			_		
Rated Voltage		60Hz 50Hz		Coil Resistance ±10% at 20°C		
	6V	429mA	467mA	3.5Ω		
	12V	184mA	200mA	23.8Ω		
AC	24V	92mA	100mA	95Ω		
	120V	22mA	24mA	2,200Ω		
	240V	10.6mA	11.5mA	9,190Ω		
	6V	240	mA	25Ω		
	12V	120mA		100Ω		
DC	24V	60mA		400Ω		
	48V	30mA		1,600Ω		
	110V	13.8mA		7,960Ω		

Contact Ratings

	Resistive			Inductive		
Voltage	Nominal	UL	CSA	Nominal	UL	CSA
30V DC	10A	10A	10A	7.5A	7A	7.5A
100V DC	0.5A			0.5A	_	0.5A
120V AC	10A	10A	10A	7.5A	7.5A	7.5A
240V AC	7.5A	10A	10A	5A	7A	7A

2. Inductive load $\cos \phi = 0.3$, L/R = 7ms.

3. UL/CSA motor load rating 1/4 HP at 120V AC and 1/3 HP at 240V AC.

Applicable Sockets

Part Numbers: Sockets

Relay	Snap DIN Rail Mount	Finger-Safe DIN Rail Mount	Panel	Springs (optional)
RR2KP	SR3P-05 SR3P-06	SR3P-05C	SR3P-51	SR3P-06F3 SR3P-51F3

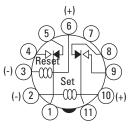


1. See Section F for details on sockets. All DIN rail mount sockets shown above can be mounted using DIN rail BNDN1000.

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Internal Circuit

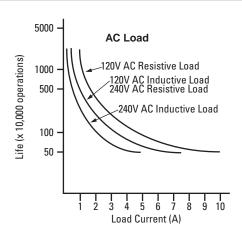


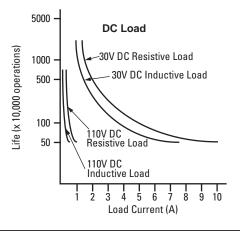


Bottom View

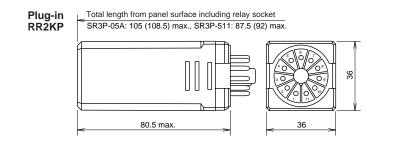
Shown in reset (unlatched) position.

Electrical Life Curves





Dimensions



All dimensions in mm.

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