

# RELAYS & CONTACTORS

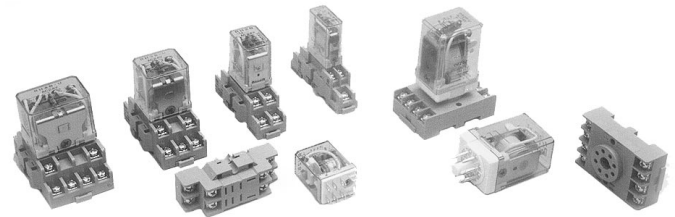


## IDEC GENERAL PURPOSE RELAYS RH / RR SERIES

### DESCRIPTION

**IDEC Relays** are available in the **RH Series Midget Relays** and the **RR Series Power General Purpose Relays**. The **RH Series Midget Relays** are compact in size to reduce space requirements and have a full 10 amp switching capacity. **RH Series Relays** are available in SPDT, DPDT, 3PDT, and 4PDT contact configurations driven by AC or DC coils. **RH Series Relays** have blade mount terminals and are available as latching relays.

The **RR Series Power General Purpose Relays** have a 10 amp contact rating and are characterized by their high reliability and long life. They are suited for use in industrial grade equipment, control equipment, communications, etc. **IDEC RR Series Relays** are available in DPDT and 3PDT configurations driven by AC or DC coils. **RR Series Relays** have pin type terminals and are available as latching relays.



### FEATURES

- **General purpose power and midget styles**
- **10 amp contact rating**
- **Indicator light or check button available**
- **Complete line of options**
- **UL recognized and CSA certified**

### SPECIFICATIONS

#### COIL RATINGS - RH SERIES

Rated Voltage (V)	Rated Current (mA) ±15% at 20°C								Coil Resistance (Ω) ±15% at 20°C							
	60 Hz				50 Hz											
	SPDT	DPDT	3PDT	4PDT	SPDT	DPDT	3PDT	4PDT	SPDT	DPDT	3PDT	4PDT				
AC	6	150	200	280	330	170	238	330	387	18.8	9.4	6.0	5.4			
	12	75	100	140	165	86	118	165	196	76.8	39.3	25.3	21.2			
	24	37	50	70	83	42	59.7	81	98	300	153	103	84.5			
	120	7.5	11	14.2	16.5	8.6	12.9	16.4	19.5	7680	4170	2770	2220			
	240	N/A	5.5	7.1	8.3	N/A	6.5	8.2	9.8	N/A	15210	12100	9120			
DC	SPDT		DPDT		3PDT		4PDT		SPDT		DPDT		3PDT		4PDT	
	6	128		150		240		250		47	40	25	24			
	12	64		75		120		125		188	160	100	96			
	24	32		36.9		60		62		750	650	400	388			

#### CONTACT RATINGS - RH SERIES (UL RATINGS)

Voltage (V)	RESISTIVE (A)				GENERAL USE (A)				MOTOR LOAD	
	SPDT	DPDT	3PDT	4PDT	SPDT	DPDT	3PDT	4PDT	SPDT/DPDT	3PDT
240 AC	10	10	—	7.5	7	7	*	5	1/3 hp	1/3 hp
120 AC	10	10	10	10	7.5	—	—	7.5	1/6 hp	1/6 hp
30 DC	10	10	10	—	7	7	—	—	—	—
28 DC	10	10	10	10	7.5	—	—	7.5	—	—

\* NOTE: 6.5 A / pole, 20 A Total

#### COIL RATINGS - RR SERIES

Rated Voltage (V)	Rated Current (mA) ±15% at 20°C		Coil Resistance (Ω) ±15% at 20°C	
	60 Hz	50 Hz		
	AC	6	420	490
12		210	245	18
24		105	121	79
120		20.5	24	2100
240		10.5	12.1	8330
DC	6	240		25
	12	120		100
	24	60		400

#### CONTACT RATINGS - RR SERIES (UL RATINGS)

Voltage (V)	RESISTIVE (A)	GENERAL USE (A)	MOTOR LOAD
240 AC	10	7	1/3 hp
120 AC	10	7.5	1/4 hp
30 DC	10	7	—

<b>Maximum continuous applied voltage</b>	110% of rated voltage AC/DC @ 20°C
<b>Minimum operating voltage</b>	80% of rated voltage AC/DC @ 20°C
<b>Drop-out voltage</b>	AC 30% or more of the rated voltage DC 10% or more of the rated voltage
<b>Contact material</b>	RH Silver cadmium oxide RR Silver
<b>Contact resistance</b>	50 mΩ maximum

<b>Operate time</b>	25 msec max
<b>Release time</b>	25 msec max
<b>Minimum load</b>	RH 24 VDC/30 mA, 5 VDC/100 mA RR 24 VDC/10 mA, 5 VDC/20 mA
<b>Operating Temp.</b>	-22° to 158°F (-30° to 70°C)
<b>Approvals</b>	UL recognized, file #E67770, E59804 E64245 CSA certified, file #LR35144

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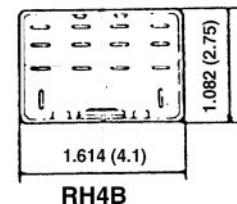
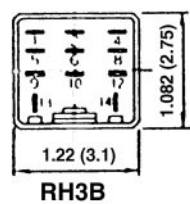
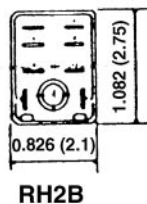
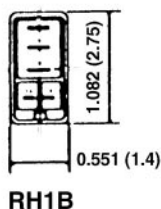
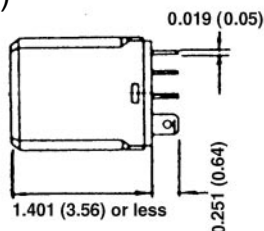


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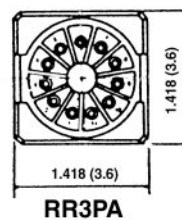
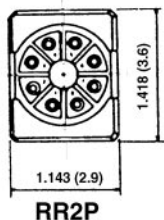
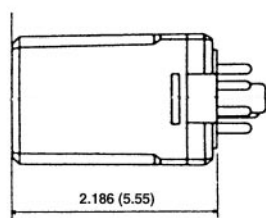
### DIMENSIONS

in  
(cm)

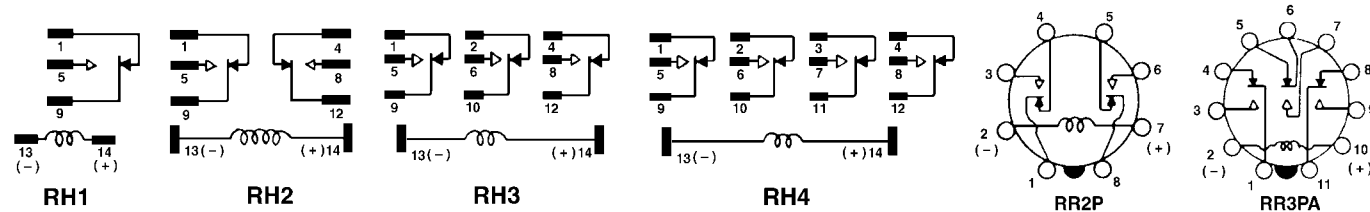
#### BLADE TYPE RELAY (RH)



#### PIN TYPE RELAY (RR)



### WIRING (BOTTOM VIEW)



### ORDERING INFORMATION

EXAMPLE:

**RR 2 P - U DC24V**

1. RELAY SERIES

RR, Pin Type Relay  
RH, Blade Type Relay

2. CONTACT CONFIGURATION

1 - Single Pole Double Throw SPDT (RH Only)  
2 - Double Pole Double Throw DPDT  
3 - Three Pole Double Throw 3PDT  
4 - Four Pole Double Throw 4PDT (RH Only)

3. SYMBOL TO DESIGNATE LATCH RELAY

Blank - Non-latching relay  
K - Self-Retaining Magnetic Type (RR2 Only)  
L - Self-Retaining Magnetic Type (RH2 Only)

6. COIL VOLTAGE

AC6V DC6V  
AC12V DC12V  
AC24V DC24V  
AC120V  
AC240V

5. OPTIONS

U - Standard Relay  
UT - Top Bracket Mounting (RH Only)  
UL - Indicator Light (RH1 not UL recognized)  
UC - Check Button (Not RH1)  
ULC - Indicator Light & Check Button (Not RH1)

4. TERMINAL STYLE

P/PA - Pin: RR Series  
B - Blade: RH Series

Example: RR2P - UDC24V DPDT Power Relay with Pin Terminals and 24 VDC Coil

#### Related Products

SH / SR Series

Relay Sockets

BAM-1000 or DIN-3F

Mounting DIN Rail