# **RELAYS & CONTACTORS**

## **IDEC GENERAL-PURPOSE RELAYS**

RH. RJ. RR SERIES



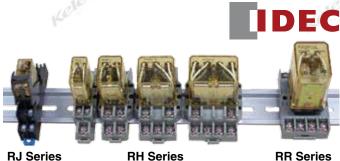
### **DESCRIPTION**

The IDEC general-purpose relays are available in the RH Series blade-style relays and the RR Series pin-style relays and the RJ Series compact relays.

The RH Series features a 10A switching capacity. They are available in SPDT, DPDT, 3PDT, and 4PDT contact configurations, driven by AC or DC coils, and they have blade terminals for socket mounting.

The RR Series has a 10A contact rating. The RR Series relays are available in SPDT, DPDT, and 3PDT configurations driven by AC or DC coils, and they have pin or blade terminals for socket mounting.

The **RJ Series** is compact to reduce space requirements. They are available in a 12A SPDT version and an 8A DPDT version. They are driven by AC or DC coils and have blade terminals for socket mounting.



**RH Series RR Series** 

#### **FEATURES**

- · Blade style, pin style, and compact models
- Indicator light and/or check button available Surface or DIN rail mount
- UL recognized, CSA certified









### **SPECIFICATIONS**

#### **COIL RATINGS**

RH SERIES													
RATED		RATED CURRENT (mA) ±15% @ 20°C								COIL RESISTANCE (Ω)			
1	VOLTAGE		60 Hz				50 Hz			±10% @ 20°C			
VOLIAGE		SPDT	DPDT	3PDT	4PDT	SPDT	DPDT	3PDT	4PDT	SPDT	DPDT	3PDT	4PDT
	12	75	100	140	165	86	121	165	196	165	39.3	25.3	21.2
	24	37	50	70	83	42	60.5	81	98	83	153	103	84.5
AC	120	7.5	_	14.2	16.5	8.6	-	16.4	19.5	16.5	_	10,800	7,360
	240	4.3	-	7.1	8.3	4.9	-	8.2	9.8	8.3	-	12,100	9,120
		SP	SPDT DPDT		3PDT 4PDT		SPDT	DPDT	3PDT	4PDT			
DC	12	64		75		120		125		188	160	100	96
DC	24	3	2	36	6.9	(	30	6	2	750	650	400	388

RR Series							
RATED		Rated Current (r	Rated Current (mA) ±15% @ 20°C				
VOT.	TAGE	60 Hz	±10% @ 20°C				
	12	210	245	365			
	24	105	121	182			
AC	120	20.5	24	35			
	240	10.5	12.1	18			
	12	1	120				
DC	24		60				

RJ	RJ Series							
	MODELS	R	ated Cui	rent (mA	() ±15%	COIL RESISTANCE (Ω)		
	WODELS		WITHO	JT LED <sup>1</sup>	WITH	LED1	±10% @ 20°C	
			60 Hz	50 Hz	60 Hz	50 Hz	±10% @ 20 C	
AC	& PCB	24V	37.5	43.9	41.1	47.5	243	
AC		120V	7.5	8.8	7.4	8.7	6,400	
	BLADE	24V	22.1		25.7		1,080	
DC	PCB 24V		22.1		_		1,080	

1. LED indicator is only available on Blade relays.

Maximum continuous applied voltage 110% of rated voltage RH. RR RJ 140% of rated voltage Pull-in voltage RH, RR, RJ/AC 80% of rated voltage RJ, RJ/DC 70% of rated voltage Drop-out voltage 30% or more of rated voltage AC DC 10% or more of rated voltage Contact material Silver cadmium oxide RH RR Silver Silver nickel alloy RJ

#### **CONTACT RATINGS**

RH SERIES (UL ratings)									
	RESISTIVE			GENERAL USE			HORSEPOWER RATING		
VOLTAGE	RH1 RH2	RH3	RH4	RH1 RH2	RH3	RH4	RH1 RH2	RH3	RH4
240V AC	10A	7.5A	7.5A	7A	6.5A	5A	1/3 hp	1/3 hp	-
120V AC	_	10A	10A	-	7.5A	7.5A	1/6 hp	1/6 hp	_
30V DC	10A	10A	-	7A	_	_		_	_
28V DC	_	-	10A	-	-	_	-	-	-

RR SERIES (UL ratings)						
VOLTAGE	RESITIVE (A)	INDUCTIVE (A) cos⊖= 0.3	MOTOR LOAD (hp)			
240 AC	10	7	1/3			
120 AC	10	7.5	1/4			
30 DC	10	7	_			

RJ Series (UL ratings)						
	CONTACT	RJ1S	RJ2S			
Resistive Load (Maximum)	N.O.	12A @ 250 VAC/30 VDC	8A @ 250 VAC/30 VDC			
` ′	N.C.	12A @ 250 VAC; 6A @ 30 VDC	8A @ 250 VAC; 4A @ 30 VDC			
Inductive Load	N.O.	7.5A @ 250 VAC; 6A @ 30 VDC	4A @ 250 VAC; 4A @ 30 VDC			
(Maximum)	N.C.	7.5A @ 250 VAC; 3A @ 30 VDC	4A @ 250 VAC; 2A @ 30 VDC			

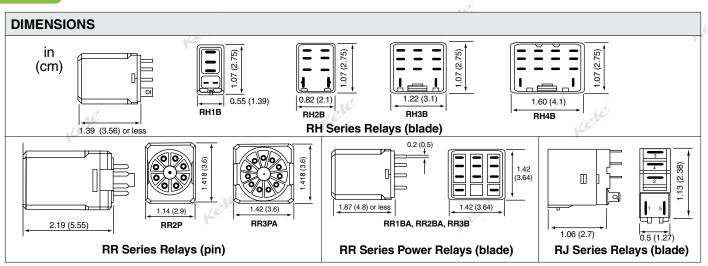
Contact resistance	
RH	50 mΩ maximum
RR	30 mΩ maximum
RJ	50 mΩ maximum
Operate time	
RH, RR	25 ms maximum
RJ	15 ms maximum
Release time	
RH, RR	25 ms maximum
RJ	10 ms maximum
Min load	
RH	24 VDC/30 mA, 5 VDC/100 mA
RR	1 VDC/10 mA
RJ	5 VDC/100 mA
Operating temp	-22° to 158°F (-30° to 70°C)
Agency approvals	UL-recognized component, (RH, RR): File #E66043, (RJ): File #E55996 CSA certified, File #LR35144; CE certified (not RR blade style
Warranty	1 year

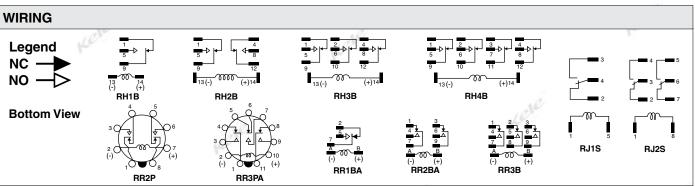
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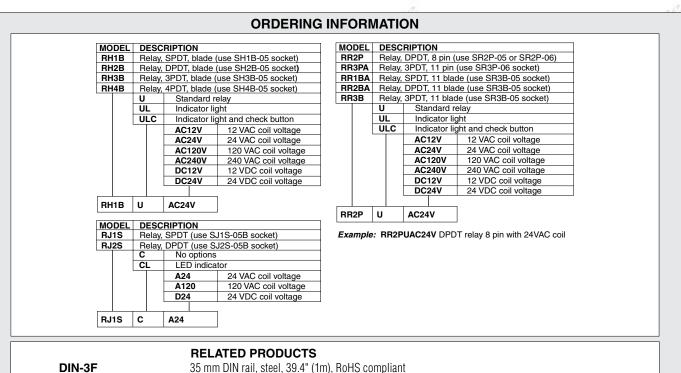
## **RELAYS & CONTACTORS**

## **IDEC GENERAL-PURPOSE RELAYS**

RH, RJ, RR SERIES







DIN rail

Relay sockets

**DIN-3F, BAM-1000** 

SH, SR, SJ Series