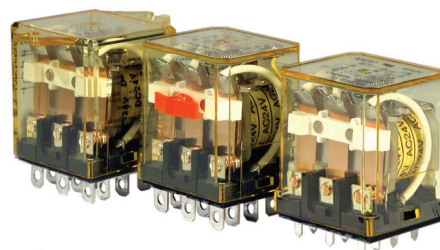


RH Series Compact Power Relays

Key features

- SPDT through 4PDT, 10A contacts
- Compact power type relays
- Miniature power relays with a large capacity
- 10A contact capacity
- Compact size saves space



Part Number Selection

Contact	Model	Part Number		Coil Voltage Code (Standard Stock in bold)	
		Blade Terminal	PCB Terminal		
 SPDT	Standard	RH1B-U □	RH1V2-U □	AC6V, AC12V, AC24V , AC110V, AC120V , AC220V, AC240V DC6V, DC12V, DC24V , DC48V, DC110V	
	With Indicator	RH1B-UL □	—		
	With Check Button	RH1B-UC □	—		
	With Indicator and Check Button	RH1B-ULC □	—		
	Top Bracket Mounting	RH1B-UT □	—		
	With Diode (DC coil only)	RH1B-UD □	RH1V2-UD □		DC6V, DC12V, DC24V , DC48V, DC110V
	With Indicator and Diode (DC coil only)	RH1B-ULD □	—		DC12V, DC24V , DC48V, DC110V
 DPDT	Standard	RH2B-U □	RH2V2-U □	AC6V, AC12V, AC24V, AC110-120V , AC220-240V DC6V, DC12V, DC24V , DC48V, DC100-110V	
	With Indicator	RH2B-UL □	RH2V2-UL □		
	With Check Button	RH2B-UC □	—		
	With Indicator and Check Button	RH2B-ULC □	—		
	Top Bracket Mounting	RH2B-UT □	—		
	With Diode (DC coil only)	RH2B-UD □	RH2V2-UD □		DC6V, DC12V, DC24V , DC48V, DC100-110V
	With Indicator and Diode (DC coil only)	RH2B-ULD □	RH2V2-ULD □		
 3PDT	Standard	RH3B-U □	RH3V2-U □	AC6V, AC12V, AC24V , AC110V, AC120V , AC220V, AC240V DC6V, DC12V, DC24V , DC48V, DC110V	
	With Indicator	RH3B-UL □	RH3V2-UL □		
	With Check Button	RH3B-UC □	—		
	With Indicator and Check Button	RH3B-ULC □	—		
	Top Bracket Mounting	RH3B-UT □	—		
	With Diode (DC coil only)	RH3B-UD □	—		DC6V, DC12V, DC24V, DC48V, DC110V
	With Indicator and Diode (DC coil only)	RH3B-ULD □	—		
 4PDT	Standard	RH4B-U □	RH4V2-U □	AC6V, AC12V, AC24V , AC110V, AC120V , AC220V, AC240V DC6V, DC12V, DC24V , DC48V, DC110V	
	With Indicator	RH4B-UL □	RH4V2-UL □		
	With Check Button	RH4B-UC □	—		
	With Indicator and Check Button	RH4B-ULC □	—		
	Top Bracket Mounting	RH4B-UT □	—		
	With Diode (DC coil only)	RH4B-UD □	RH4V2-UD □		DC6V, DC12V, DC24V, DC48V, DC110V
	With Indicator and Diode (DC coil only)	RH4B-ULD □	—		



PCB terminal relays are designed to mount directly to a circuit board without any socket.

Ordering Information

When ordering, specify the Part No. and coil voltage code:

(example) **RH3B-U** **AC120V**
 Part No. Coil Voltage Code

Switches & Pilot Lights

Signaling Lights

Relays & Sockets

Timers

Contactors

Terminal Blocks

Circuit Breakers

Switches & Pilot Lights

Sockets (for Blade Terminal Models)

Relays	Standard DIN Rail Mount ¹	Finger-safe DIN Rail Mount ¹	Through Panel Mount	PCB Mount
RH1B	SH1B-05	SH1B-05C	SH1B-51	SH1B-62
RH2B	SH2B-05	SH2B-05C	SH2B-51	SH2B-62
RH3B	SH3B-05	SH3B-05C	SH3B-51	SH3B-62
RH4B	SH4B-05	SH4B-05C	SH4B-51	SH4B-62



1. DIN Rail mount socket comes with two horseshoe clips. Do not use unless you plan to insert pullover wire spring. Replacement horseshoe clip part number is Y778-011.

Signaling Lights

Hold Down Springs & Clips

Appearance	Item	Relay	For DIN Mount Socket	For Through Panel & PCB Mount Socket
	Pullover Wire Spring	RH1B	SY2S-02F1 ²	SY4S-51F1
		RH2B	SY4S-02F1 ²	
		RH3B	SH3B-05F1 ²	
		RH4B	SH4B-02F1 ²	
	Leaf Spring (side latch)	RH1B, RH2B, RH3B, RH4B	SFA-202 ³	SFA-302 ³
	Leaf Spring (top latch)	RH1B, RH2B, RH3B, RH4B	SFA-101 ³	SFA-301 ³



2. Must use horseshoe clip when mounting in DIN mount socket. Replacement horseshoe clip part number is Y778-011.
3. Two required per relay.

Relays & Sockets

AC Coil Ratings

Voltage (V)	Rated Current (mA) ±15% at 20°C								Coil Resistance (Ω) ±10% at 20°C				Operation Characteristics (against rated values at 20°C)		
	AC 50Hz				AC 60Hz				SPDT	DPDT	3PDT	4PDT	Max. Continuous Applied Voltage	Pickup Voltage	Dropout Voltage
	SPDT	DPDT	3PDT	4PDT	SPDT	DPDT	3PDT	4PDT							
6	170	240	330	387	150	200	280	330	18.8	9.34	6.4	5.8			
12	86	121	165	196	75	100	140	165	76.8	39.3	25.3	23.1			
24	42	60.5	81	98	37	50	70	83	300	152	103	84.5			
110	9.6	—	18.1	21.6	8.4	—	15.5	18.2	6,950	—	2,200	1,800			
110-120	—	9.4-10.8	—	—	—	8.0-9.2	—	—	—	—	—	—			
120	8.6	—	16.4	19.5	7.5	—	14.2	16.5	8,100	—	2770	2220			
220	4.7	—	8.8	10.7	4.1	—	7.7	9.1	25,892	—	10,810	7,360			
220-240	—	4.7-5.4	—	—	—	4.0-4.6	—	—	—	18,820	—	—			
240	4.9	—	8.2	9.8	4.3	—	7.1	8.3	26,710	—	12,100	9,120			

Timers

Contactors

DC Coil Ratings

Voltage (V)	Rated Current (mA) ±15% at 20°C				Coil Resistance (Ω) ±10% at 20°C				Operation Characteristics (against rated values at 20°C)		
	SPDT	DPDT	3PDT	4PDT	SPDT	DPDT	3PDT	4PDT	Max. Continuous Applied Voltage	Pickup Voltage	Dropout Voltage
6	128	150	240	250	47	40	25	24	110%	80% maximum	10% minimum
12	64	75	120	125	188	160	100	96			
24	32	37.5	60	62	750	640	400	388			
48	18	18.8	30	31	2,660	2,560	1,600	1,550			
100-110	—	8.2-9.0	—	—	—	12,250	—	—			
110	8	—	12.8	15	13,800	—	8,600	7,340			



Standard coil voltages are in **BOLD**.

Terminal Blocks

Circuit Breakers

Contact Ratings

Model	Continuous Current	Maximum Contact Capacity				
		Allowable Contact Power		Rated Load		
		Resistive Load	Inductive Load	Voltage (V)	Res. Load	Ind. Load
SPDT	10A	1540VA 300W	990VA 210W	110 AC	10A	7A
				220 AC	7A	4.5A
				30 DC	10A	7A
DPDT 3PDT 4PDT	10A	1650VA 300W	1100VA 225W	110 AC	10A	7.5A
				220 AC	7.5A	5A
				30 DC	10A	7.5A

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

TÜV Ratings

Voltage	RH1	RH2	RH3	RH4
240V AC	10A	10A	7.5A	7.5A
30V DC	10A	10A	10A	10A

AC: $\cos \phi = 1.0$, DC: L/R = 0 ms

UL Ratings

Voltage	Resistive			General Use			Horsepower Rating		
	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	—	—	—	—	—	—




CSA Ratings

Voltage	Resistive				General Use				Horsepower Rating
	RH1	RH2	RH3	RH4	RH1	RH2	RH3	RH4	RH1, 2, 3
240V AC	10A	10A	—	7.5A	7A	7A	7A	5A	1/3 HP
120V AC	10A	10A	10A	10A	7.5A	7.5A	—	7.5A	1/6 HP
30V DC	10A	10A	10A	10A	7A	7.5A	—	—	—

Socket Specifications

	Sockets	Terminal	Electrical Rating	Wire Size	Torque	
DIN Rail Mount Sockets	SH1B-05	(Coil) M3 screws (contact) M3.5 screws with captive wire clamp	250V, 10A	Maximum up to 2-#12AWG	5.5 - 9 in•lbs 9 - 11.5 in•lbs	
	SH2B-05 SH3B-05 SH4B-05	M3.5 screws with captive wire clamp	300V, 10A	Maximum up to 2-#12AWG	9 - 11.5 in•lbs	
	Finger-safe DIN Rail Mount	SH1B-05C	(coil) M3 screws (contact) M3.5 screws with captive wire clamp, fingersafe	250V, 10A	Maximum up to 2-#12AWG	5.5 - 9 in•lbs 9 - 11.5 in•lbs
		SH2B-05C SH3B-05C SH4B-05C	M3.5 screws with captive wire clamp, fingersafe	300V, 10A	Maximum up to 2-#12AWG	9 - 11.5 in•lbs
Through Panel Mount Socket	SH1B-51 SH2B-51 SH3B-51 SH4B-51	Solder	300V, 10A	—	—	
PCB Mount Socket	SH1B-62	PCB mount	250V, 10A	—	—	
	SH2B-62 SH3B-62 SH4B-62	PCB mount	300V, 10A	—	—	

Accessories

Item	Appearance	Use with	Part No.	Remarks
Aluminum DIN Rail (1 meter length)		All DIN rail sockets	BNDN1000	The BNDN1000 is designed to accommodate DIN mount sockets. Made of durable extruded aluminum, the BNDN1000 measures 0.413 (10.5mm) in height and 1.37 (35mm) in width (DIN standard). Standard length is 39" (1,000mm).
DIN Rail End Stop		DIN rail	BNL5	9.1 mm wide.
Replacement Hold-Down Spring Anchor		DIN mount sockets and hold down springs.	Y778-011	For use on DIN rail mount socket when using pullover wire hold down spring. 2 pieces included with each socket.

Switches & Pilot Lights

Signaling Lights

Relays & Sockets

Timers

Contactors

Terminal Blocks

Circuit Breakers

Specifications

Contact Material	Silver cadmium oxide		
Contact Resistance ¹	50mΩ maximum		
Minimum Applicable Load	24V DC, 30 mA; 5V DC, 100 mA (reference value)		
Operating Time ²	SPDT DPDT	20ms maximum	
	3PDT 4PDT	25ms maximum	
Release Time ²	SPDT DPDT	20ms maximum	
	3PDT 4PDT	25ms maximum	
Power Consumption (approx.)	SPDT	AC: 1.1VA (50Hz), 1VA (60Hz)	DC: 0.8W
	DPDT	AC: 1.4VA (50Hz), 1.2VA (60Hz)	DC: 0.9W
	3PDT	AC: 2VA (50Hz), 1.7VA (60Hz)	DC: 1.5W
	4PDT	AC: 2.5VA (50Hz), 2VA (60Hz)	DC: 1.5W
Insulation Resistance	100MΩ minimum (500V DC megger)		
Dielectric Strength ³	SPDT	Between live and dead parts: 2,000V AC, 1 minute Between contact and coil: 2,000V AC, 1 minute Between contacts of the same pole: 1,000V AC, 1 minute	
	DPDT 3PDT 4PDT	Between live and dead parts: 2,000V AC, 1 minute Between contact and coil: 2,000V AC, 1 minute Between contacts of different poles: 2,000V AC, 1 minute Between contacts of the same pole: 1,000V AC, 1 minute	
Operating Frequency	Electrical:	1,800 operations/hour maximum	
	Mechanical:	18,000 operations/hour maximum	
Vibration Resistance	Damage limits:	10 to 55Hz, amplitude 0.5 mm	
	Operating extremes:	10 to 55Hz, amplitude 0.5 mm	
Shock Resistance	Damage limits:	1,000m/s ² (100G)	
	Operating extremes:	200m/s ² (20G - SPDT, DPDT) 100m/s ² (10G - 3PDT, 4PDT)	
Mechanical Life	50,000,000 operations minimum		
Electrical Life	DPDT	500,000 operations minimum (120V AC, 10A)	
	SPDT 3PDT 4PDT	200,000 operations minimum (120V AC, 10A)	
Operating Temperature ⁴	SPDT DPDT 3PDT 4PDT	-25 to +70°C (no freezing)	
Operating Humidity	45 to 85% RH (no condensation)		
Weight (approx.)	SPDT: 24g, DPDT: 37g, 3PDT: 50g, 4PDT: 74g		



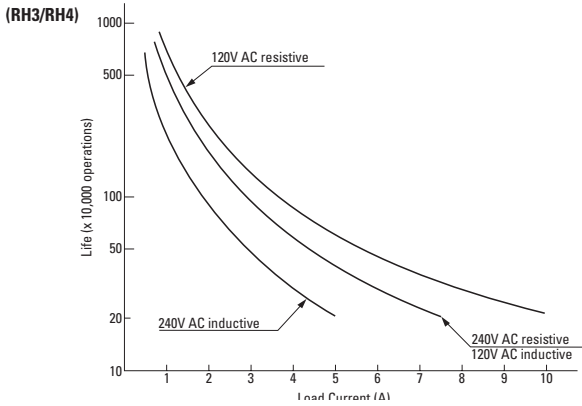
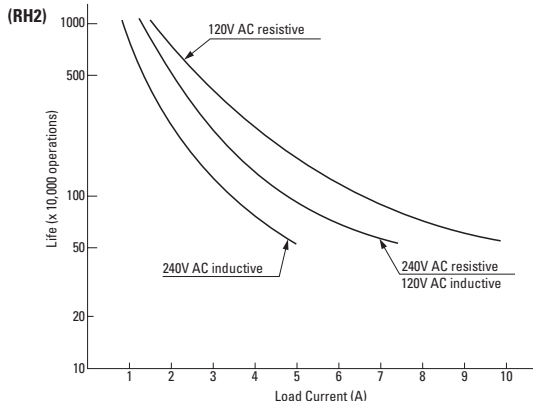
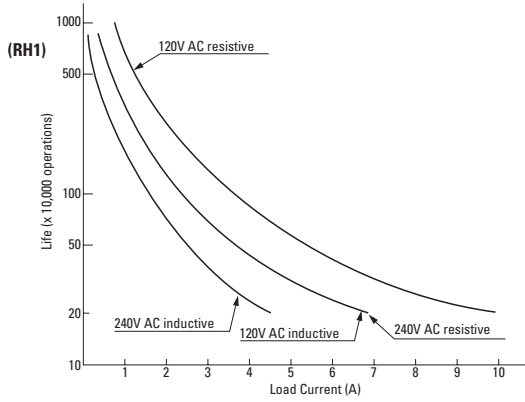
Note: Above values are initial values.

1. Measured using 5V DC, 1A voltage drop method
2. Measured at the rated voltage (at 20°C), excluding contact bouncing
Release time of relays with diode: 40 ms maximum
3. Relays with indicator or diode: 1000V AC, 1 minute
4. For use under different temperature conditions, refer to Continuous Load Current vs. Operating Temperature Curve. The operating temperature range of relays with indicator or diode is -25 to +40°C.

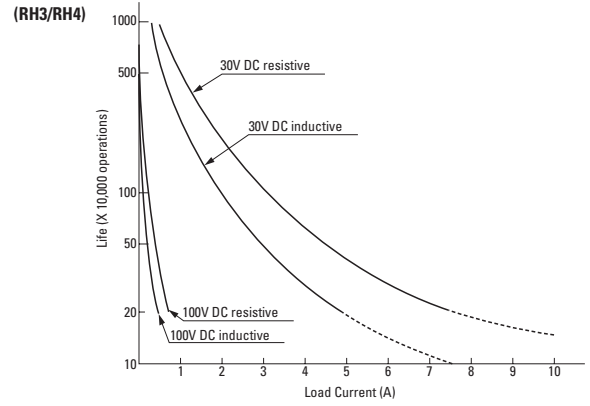
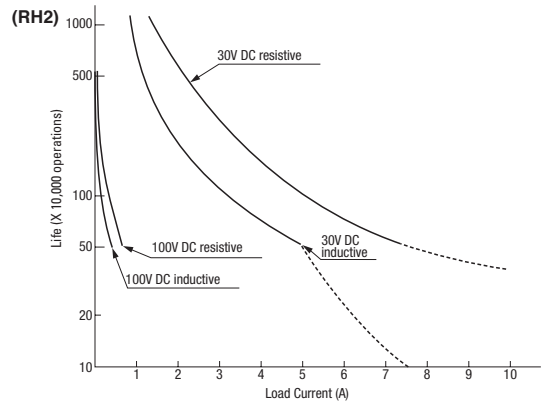
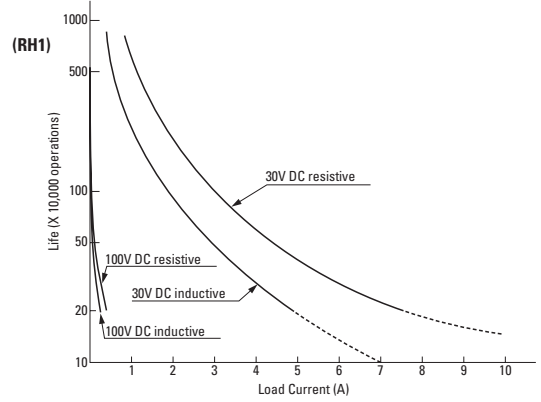
Characteristics (Reference Data)

Electrical Life Curves

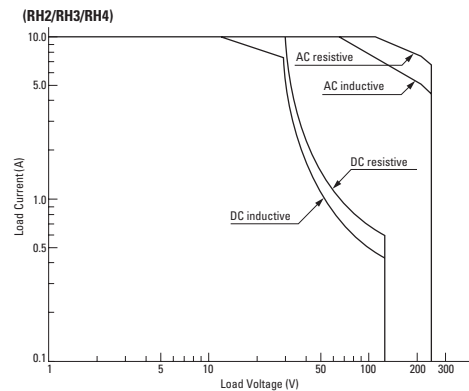
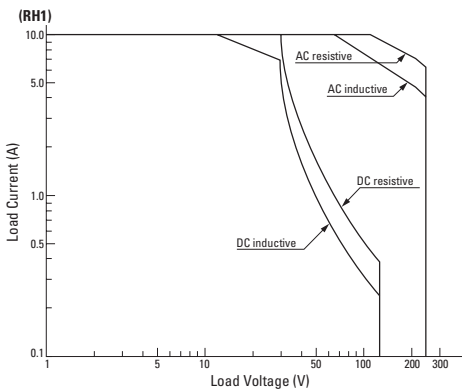
AC Load



DC Load



Maximum Switching Capacity



Switches & Pilot Lights

Signaling Lights

Relays & Sockets

Timers

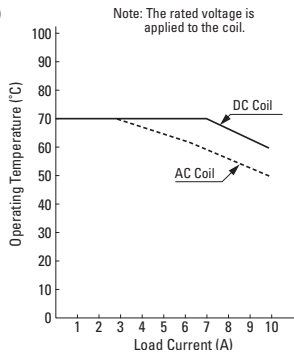
Contactors

Terminal Blocks

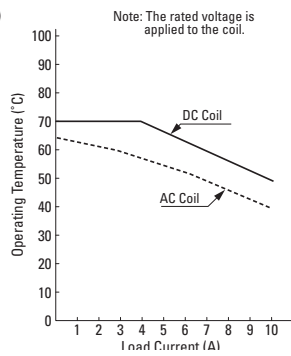
Circuit Breakers

Continuous Load Current vs. Operating Temperature Curve (Basic Type, With Check Button, and Top Bracket Mounting Type)

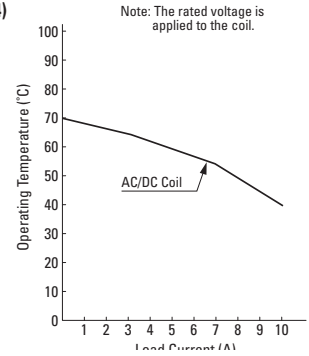
(RH1)



(RH2)

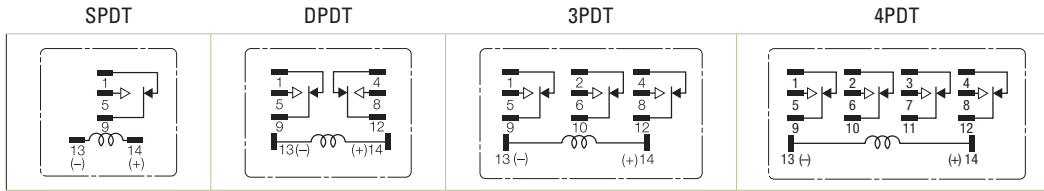


(RH3/RH4)

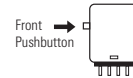


Internal Connection (View from Bottom)

Basic Type



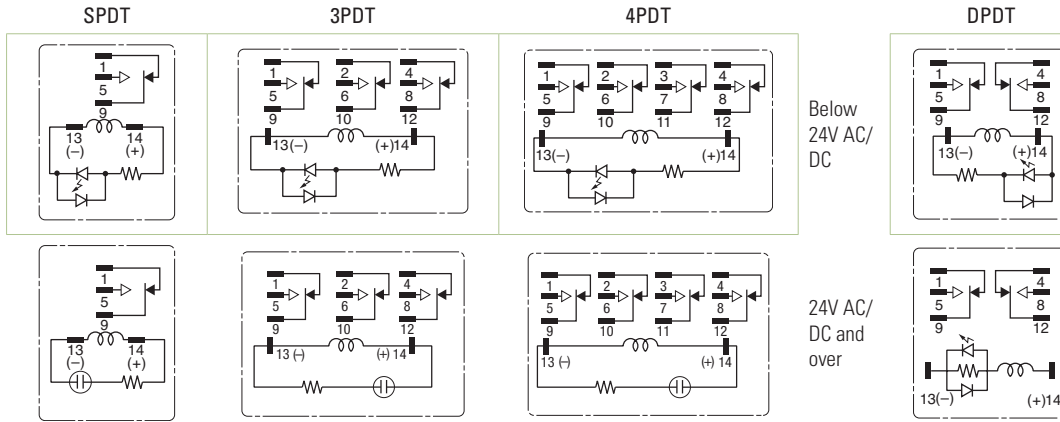
With Check Button



Contacts can be operated by pressing the check button.

With Indicator (-L type)

Below 100V AC/DC



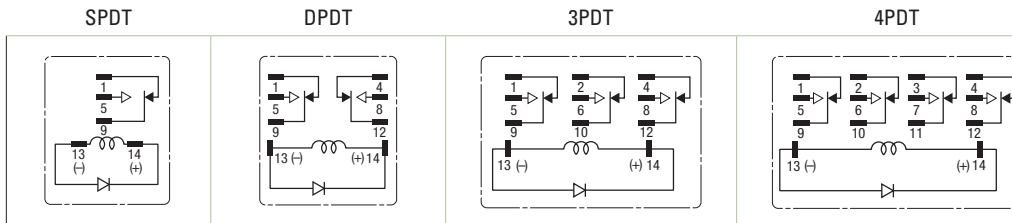
Below 24V AC/DC

24V AC/DC and over

When the relay is energized, the indicator goes on.

- Relay coils less than 100V DC do not contain a protection diode (except DPDT).
- Relay coils below 100V use LED indicator, coils above 100V use neon lamp indicator.
- LED color of DPDT model is green

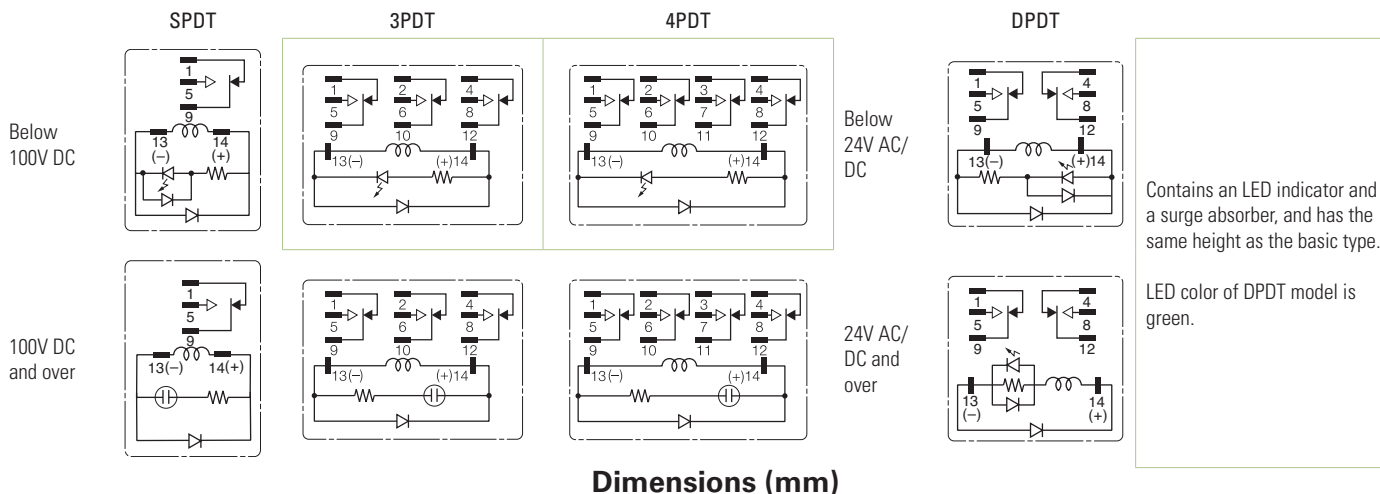
With Diode (-D type)



Contains a diode to absorb the back emf generated when the coil is de-energized. The release time is slightly longer. Available for DC coil only.

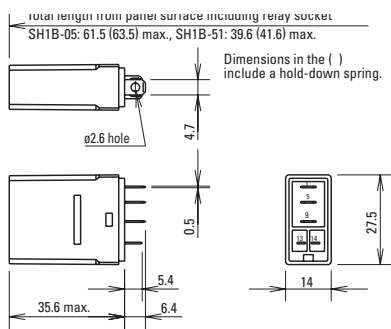
- Diode Characteristics
Reverse withstand voltage: 1,000V
Forward current: 1A

With Indicator LED & Diode (-LD type)

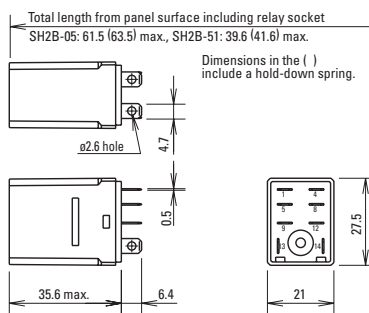


Dimensions (mm)

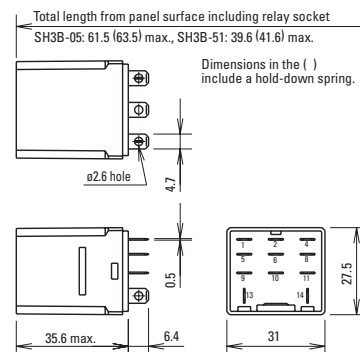
RH1B-U/RH1B-UL/RH1B-UD/RH1B-ULD



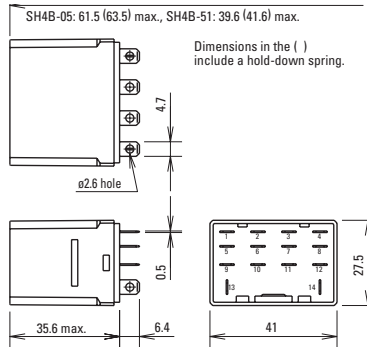
RH2B-U/RH2B-UL/RH2B-UD/RH2B-ULD



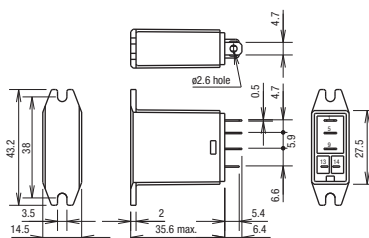
RH3B-U/RH3B-UL/RH3B-UD/RH3B-ULD



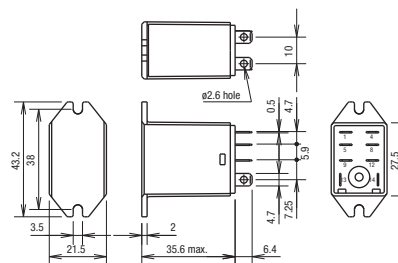
RH4B-U/RH4B-UL/RH4B-UD/RH4B-ULD



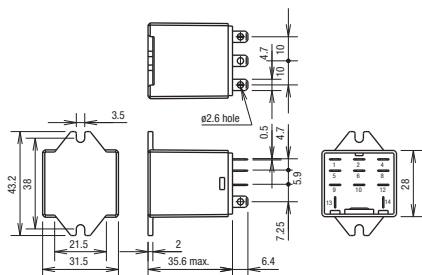
RH1B-UT



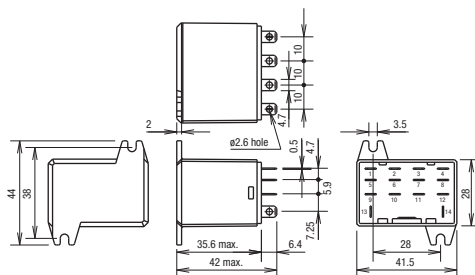
RH2B-UT



RH3B-UT



RH4B-UT



Switches & Pilot Lights

Signaling Lights

Relays & Sockets

Timers

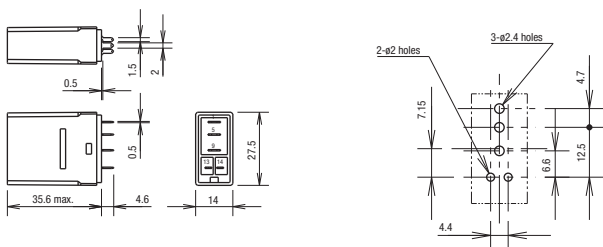
Contactors

Terminal Blocks

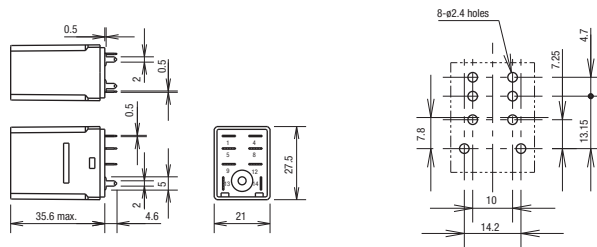
Circuit Breakers

Dimensions con't (mm)

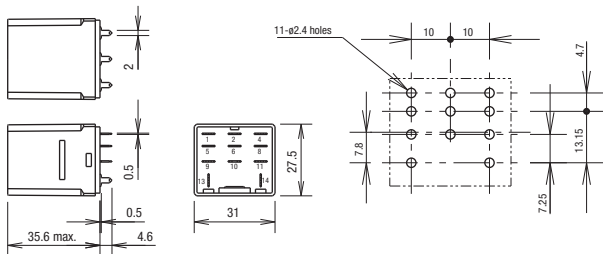
RH1V2-U/RH1V2-UD



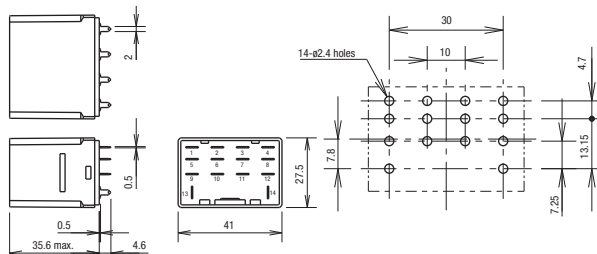
RH2V2-U/RH2V2-UL/RH2V2-UD



RH3V2-U/RH3V2-UL/RH3V2-D

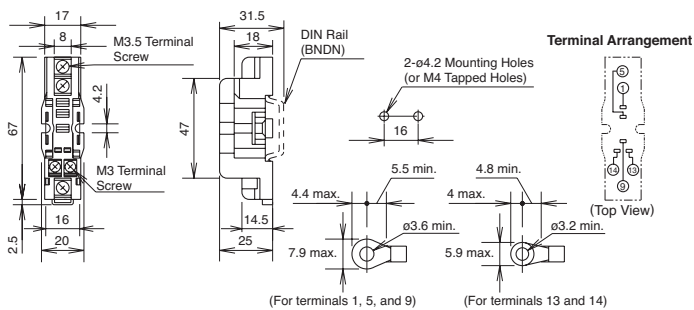


RH4V2-U/RH4V2-UL/RH4V2-UD

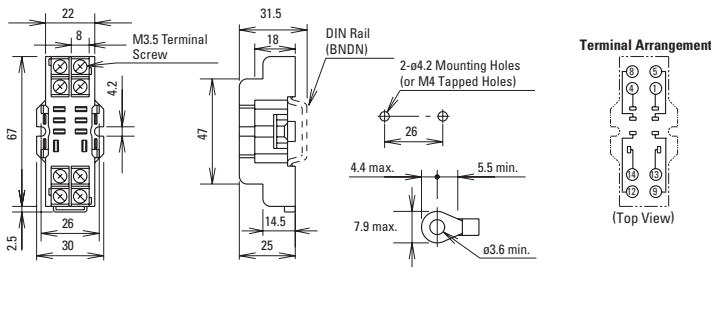


Standard DIN Rail Mount Sockets

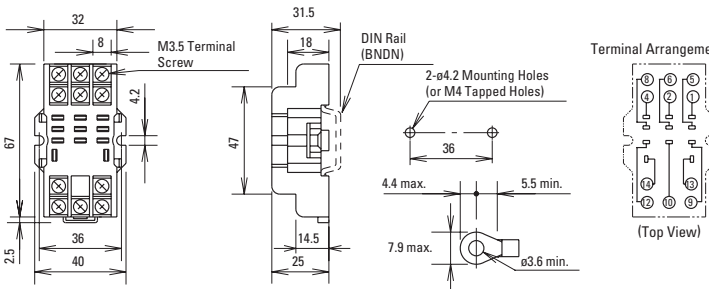
SH1B-05



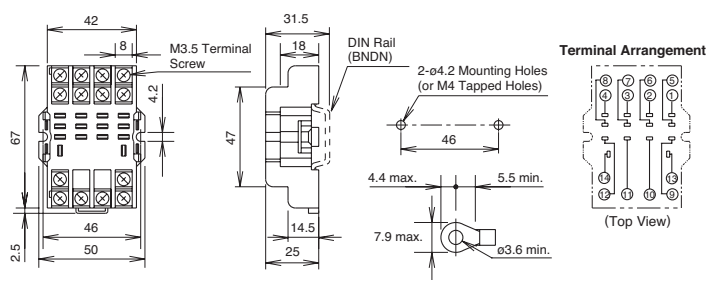
SH2B-05



SH3B-05



SH4B-05



Switches & Pilot Lights

Signaling Lights

Relays & Sockets

Timers

Contactors

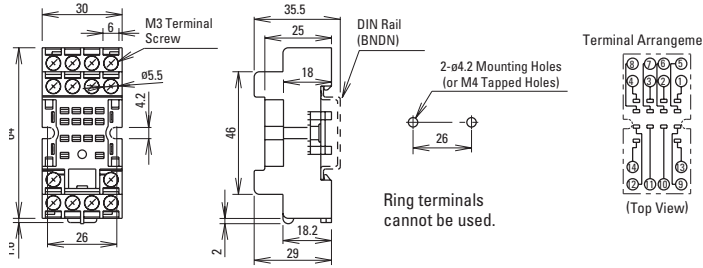
Terminal Blocks

Circuit Breakers

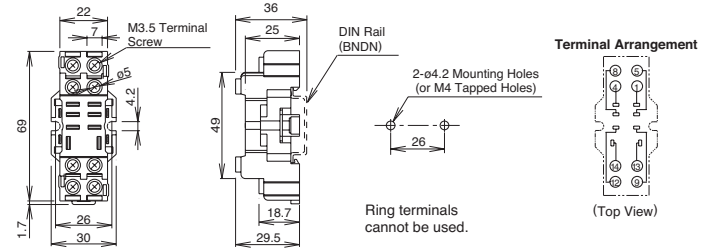
Dimensions con't (mm)

Finger-safe DIN Rail Mount Sockets

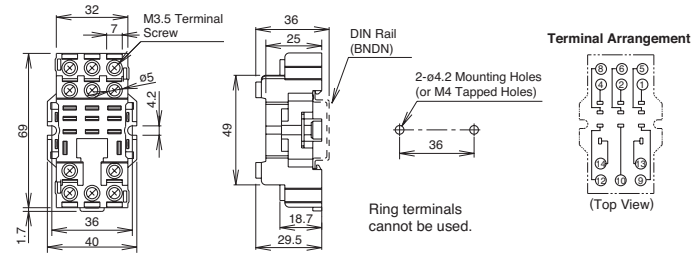
SH1B-05C



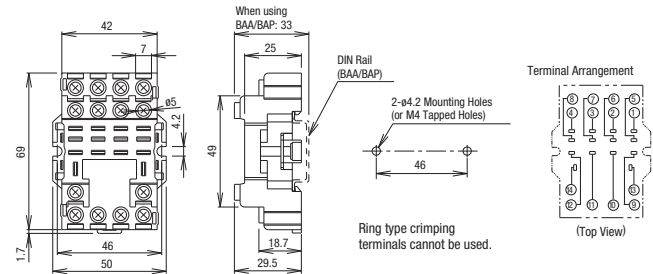
SH2B-05C



SH3B-05C

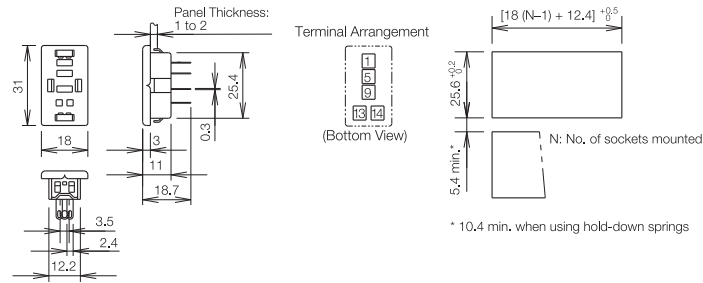


SH4B-05C

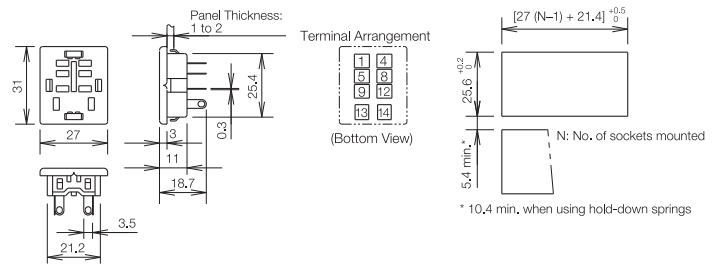


Through Panel Mount Socket

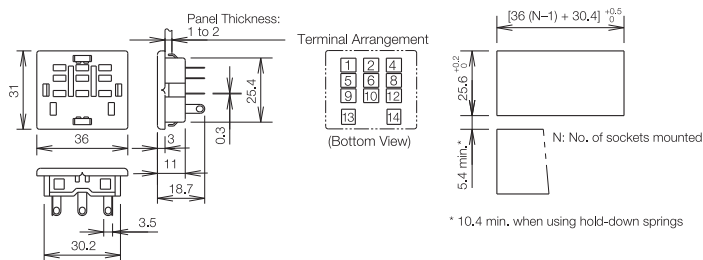
SH1B-51



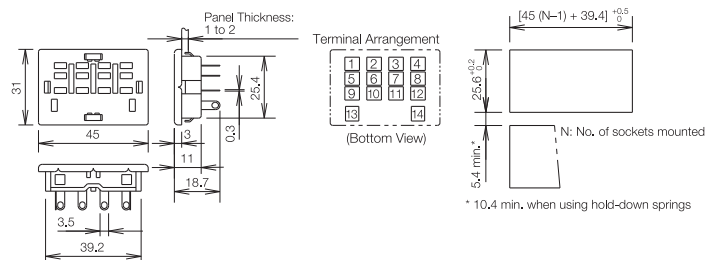
SH2B-51



SH3B-51



SH4B-51



Switches & Pilot Lights

Signaling Lights

Relays & Sockets

Timers

Contactors

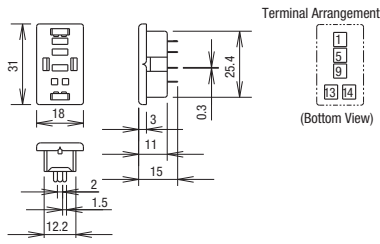
Terminal Blocks

Circuit Breakers

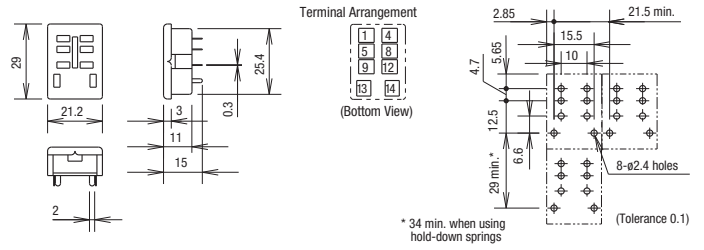
Dimensions con't (mm)

PCB Mount Sockets

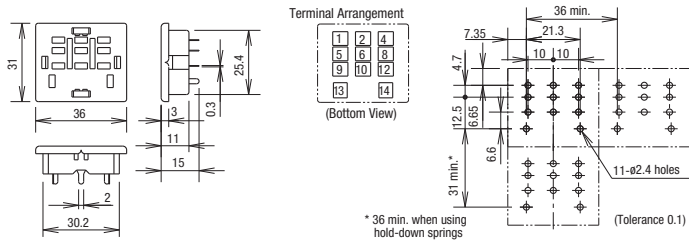
SH1B-62



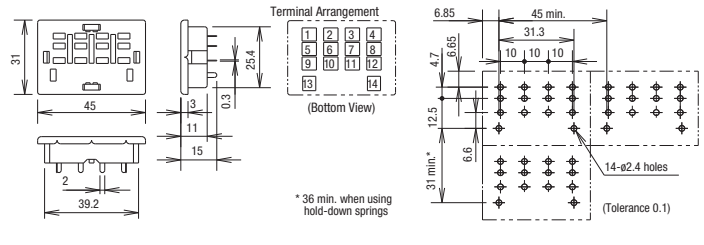
SH2B-62



SH3B-62



SH4B-62





Think Automation and beyond...

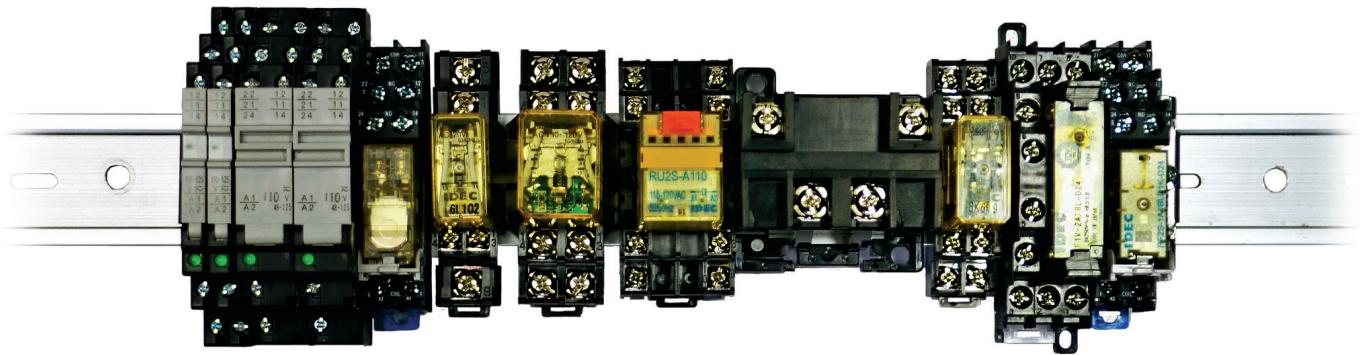
Relay Selection Guide



IDEC Relays

DIN rail mount, Panel mount, Interface and PCB mount Relays

Designed with attention to every detail, IDEC relays are manufactured to ensure precision and quality. Our Industrial DIN rail mount, PCB mount and interface relays come in contact ratings from 6 Amps to 30 Amps for many applications. Correlating sockets include multiple features for ease-of-use and can also be DIN rail, panel or PCB mounted. Each socket is designed to work with IDEC timers and relays.



Interface Relays

- Use with PLC
- 6mm and 14mm wide
- 1 pole and 2 pole

Page 3 & 4

RJ Relays

- 8 Amp and 12 Amp
- 1 pole and 2 pole
- Blade or PCB Terminals

Page 5

RH Relays

- 1, 2, 3 and 4 pole
- 10 Amp
- Check button and indicator options

Page 6

RU Relays

- 2 pole or 4 pole
- 10 Amp

Page 7

RL Relays

- 1 pole or 2 pole
- 30 Amp
- DIN rail or Panel mount

Page 9

RY Relays

- Small signaling relay
- 2 pole, 3 Amp
- Blade plug-in or PCB terminals

Page 9

Force Guided Relays

- EN Compliant
- 2, 4, or 6 pole
- Force guided contacts

Page 10

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www.IDEC.com/relays

RV8H Series - 6mm Interface Relays



Screw Terminals



Spring Clamp Terminals

- Space-saving 6mm width
- Only 71mm in height from DIN rail
- Gold-plated contacts
- Pre-assembled relay and DIN rail mount socket
- Class I Division 2 and Class I Zone 2 hazardous locations
- Universal screw (flat and Phillips) or spring clamp terminals
- Preprinted marking plates available
- RoHS compliant



RV8H – **L** – **AD110** – **C1D2**

Terminals

- L:** Screw
- S:** Spring Clamp

Voltage Code

- D6:** 6V DC
- D9:** 9V DC
- D12:** 12V DC
- D18:** 18V DC
- D24:** 24V DC
- AD12:** 12V AC/DC
- AD18:** 18V AC/DC
- AD24:** 24V AC/DC
- AD48:** 48V AC/DC
- AD60:** 60V AC/DC
- AD110:** 100-125V AC/DC
- AD220:** 220V-240V AC/DC

Rating

- Blank:** Standard
- C1D2:** Class I Division 2 Ratings
- HD:** High Coil Voltage Dropout

RV8H	
Specs	Contact Material AgNi (Au plating)
	Contact Rating 6A
	Minimum Load (reference values) 6V DC 10mA
	Dimensions (W x D x H) mm 6.1 x 74.2 x 88

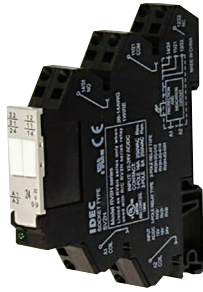
	Description	Color	Part Number
Accessories	Jumper (20 combs)	Black	SV9Z-J20B
		Gray	SV9Z-J20W
		Blue	SV9Z-J20S
	Spacer (circuit separator)	–	SV9Z-SA2W
	Marking Plate (10 pcs)	White	SV9Z-PW10

Top Selling RV8H 6mm Relays	
Part Number	Description
RV8H-L-D24	RV8H Relay, SPDT, 24V DC
RV8H-L-AD110	RV8H Relay, SPDT, 110V AC/DC
RV8H-L-AD24	RV8H Relay, SPDT, 24V AC/DC
RV8H-S-D24	RV8H Relay, SPDT, Spring Clamp, 24V DC
RV8H-L-AD220	RV8H Relay, SPDT, 220V AC/DC
RV8H-L-D24-C1D2	RV8H Relay, SPDT, 24V DC Class I Div. 2
RV8H-S-AD24	RV8H Relay, SPDT, Spring Clamp, 24V AC/DC
RV8H-S-AD110	RV8H Relay, SPDT, Spring Clamp, 110V AC/DC
RV8H-L-D12	RV8H Relay, SPDT, 12V DC
RV8H-L-AD110-C1D2	RV8H Relay, SPDT, 110V AC/DC Class I Div. 2

RV8H Series - 14mm Interface Relays



Screw Terminals



Spring Clamp Terminals

- Class I Division 2 and Class I Zone 2 hazardous locations
- Space-saving 14mm width
- Only 71mm in height from DIN rail
- Gold-plated contacts
- Pre-assembled relay and DIN rail mount socket
- Universal screw (flat and Phillips) or spring clamp terminals
- Preprinted marking plates available
- RoHS compliant



RV8H – 1L1 – AD110 – C1D2

Terminals

1L1: 1 pole Screw Terminal
2L: 2 pole Screw Terminal
1S1: 1 pole Spring Clamp
2S: 2 pole Spring Clamp

Voltage Code

D6: 6V DC
D9: 9V DC
D12: 12V DC
D18: 18V DC
D24: 24V DC
AD12: 12V AC/DC
AD18: 18V AC/DC
AD24: 24V AC/DC
AD48: 48V AC/DC
AD60: 60V AC/DC
AD110: 100-125V AC/DC
AD220: 220V-240V AC/DC

Rating

Blank: Standard
C1D2: Class I Division 2 Ratings
HD: High Coil Voltage Dropout

RV8H	
Specs	Contact Material AgNi (Au plating)
	Contact Rating 1 pole 250V AC, 16A (8A per terminal), 2 pole 250V AC, 8A
	Minimum Load (reference values) 1 pole 6V DC 100mA / 2 pole 5V DC 10mA
	Dimensions (W x D x H) mm 14 x 88 x 75

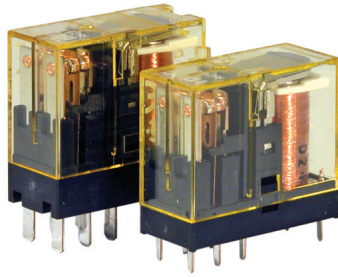
	Description	Color	Part Number
Accessories	Jumper (20 combs)	Black	SV9Z-J232B
		Gray	SV9Z-J232W
		Blue	SV9Z-J232S
	Spacer (circuit separator)	–	SV9Z-SA2W
	Marking Plate (10 pcs)	White	SV9Z-PW10

Top Selling RV8H 14mm Relays	
Part Number	Description
RV8H-1L1-AD110	RV8H Relay, SPDT, 110V AC/DC
RV8H-1L1-D24	RV8H Relay, SPDT, 24V DC
RV8H-1L1-D24-C1D2	RV8H Relay, SPDT, 24V DC Class I Div. 2
RV8H-1L1-AD110-C1D2	RV8H Relay, SPDT, 110V AC/DC, Class I Div. 2
RV8H-1S1-D24	RV8H Relay, SPDT, Spring Clamp, 24V DC
RV8H-1S1-D24-C1D2	RV8H Relay, SPDT, Spring Clamp, 24V DC, Class I Div. 2
RV8H-2L-AD110	RV8H Relay, DPDT, 110V AC/DC
RV8H-2L-D24	RV8H Relay, DPDT, 24V DC
RV8H-2S-D24	RV8H Relay, DPDT, Spring Clamp, 24V DC
RV8H-2L-D24-C1D2	RV8H Relay, DPDT, 24V DC, Class I Div. 2

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RJ Series - Slim Power Relays



- Compact size for maximum space savings on DIN rail
- SPDT 12A and DPDT 8A contacts (high capacity 16A SPST-NO available)
- Optional non-polarized, green LED
- Locking and release lever on SJ sockets
- RoHS compliant



RJ 2 2 S - CL - A24

<p>Contact Configuration 1: SPDT 2: DPDT</p>	<p>Contacts Blank: Standard 2: Bifurcated**</p>	<p>Terminal S: Blade V: PCB</p>	<p>Options C: Standard CL: LED CD: Surge Suppression Diode* CLD: LED & Surge Suppression Diode* CH: High Capacity A: SPST-NO Standard AH: SPST-NO High Capacity</p>	<p>Voltage Code A12: 12V AC D5: 5V DC A24: 24V AC D6: 6V DC A120: 120V AC D12: 12V DC A220: 220V AC D24: 24V DC A240: 240V AC D48: 48V DC D100: 100-110V DC</p>
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*Diode is only for DC coils.

**Bifurcated contacts available on DPDT relays only

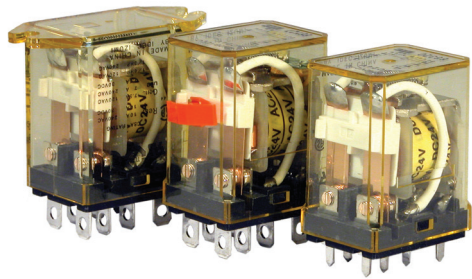
		RJ1S	RJ2S	RJ22S	RJ22V
Specs	Contact Material	Silver-Nickel Alloy		AgNi (gold clad)	
	Contact Rating	12A	8A	1A	1A
	Minimum Load (reference values)	100mA@5V DC, 10mA@5V DC (PCB version)			100µA@1V DC
	Dimensions (W x D x H) mm	12.7 x 28.8 x 33			

		Push-In Terminal Din Rail Mount	Standard DIN rail Mount	Finger-safe DIN rail Mount	PCB Mount	
Sockets	Blade Models	RJ1S (Std)	SJ1S-21L	SJ1S-05BW	SJ1S-07LW	SJ1S-61
		RJ2S (Std) RJ22S	SJ2S-21L	SJ2S-05BW	SJ2S-07LW	SJ2S-61
	PCB Models	RJ1V (Std)	-	-	SQ1V-07B	SQ1V-63
		RJ1V (HC) , RJ2V/RJ22V	-	-	SQ2V-07B	SQ2V-63

Description	Use With Socket	Part Number	
Accessories	Hold Down Springs	SJ1S-05BW, SJ1S-07LW SJ2S-05BW, SJ2S-07LW	SJ9Z-CM
		SQ1V-07B, SQ2V-07B	SQ9Z-C
		SQ1V-63, SQ2V-63	SQ9Z-C63
DIN rail	SJ1S-05BW, SJ2S-05BW SJ1S-07LW, SJ2S-07LW	BNDN1000	
		BNL-5	
Jumpers	2 Poles	SJ9Z-JF2	
	5 Poles	SJ9Z-JF5	
	8 Poles	SJ9Z-JF8	
	10 Poles	SJ9Z-JF10	
Marking Plate	Finger-safe Sockets (only)	SJ9Z-PWPN10	

Top Selling RJ Relays	
Part Number	Description
RJ1S-C-A120	Relay SPDT 12A 120V AC Coil
RJ1S-C-D24	Relay SPDT 12A 24V DC Coil
RJ1S-CL-D24	Relay SPDT 12A 24V DC Coil, LED
RJ1S-CLD-D24	Relay SPDT 12A 24V DC, LED, Diode
RJ2S-CL-A120	Relay DPDT 8A 120V AC Coil, LED
RJ2S-CL-A24	Relay DPDT 8A 24V AC Coil, LED
RJ2S-CL-D24	Relay DPDT 8A 24V DC Coil, LED
RJ2S-CLD-D24	Relay DPDT 8A 24V DC Coil, LED, Diode
RJ2S-C-A240	Relay DPDT 8A 240V AC, Coil
RJ22S-C-A24	Bifurcated Contacts DPDT AC24

RH Series - Compact Power Relays



- Small, industrial 10A General Purpose relay
- SPDT, DPDT, 3PDT, 4PDT contacts
- Options: Indicator LED, check-button, top-mounting and surge-suppression diodes
- DIN rail, through panel, and PCB-type sockets available
- SPDT and DPDT 500K cycle UL tested for maximum life expectancy
- RoHS compliant



RH 1 B - U L AC24V

Contact Configuration
1: SPDT
2: DPDT
3: 3PDT
4: 4PDT

Terminal Type
B: Blade (.187")
V2: PCB

Options
Blank: Standard Relay
L: Indicator Light
C: Check button
T: Top Mounting*
D: Diode (DC Coil Voltage Only)

Coil Voltage
AC6V **DC6V**
AC12V **DC12V**
AC24V **DC24V**
AC120V **DC48V**
AC240V **DC110V**

*Diode, Indicator light, and check button not available with top mount option
 1. For RH2B use AC110-120V
 2. For RH2B use AC220-240V
 3. For RH2B use DC100-110V

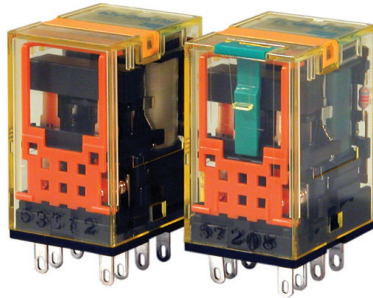
		RH1	RH2	RH3	RH4
Specs	Contact Material	Silver cadmium oxide (AgCdO)			
	Contact Rating	10A			
	Minimum Load (reference values)	30mA@24V DC, 100mA@5V DC			
	Dimensions (W x D x H) mm	14 x 27.5 x 42	21 x 27.5 x 42	31 x 27.5 x 42	41 x 27.5 x 42

		Standard DIN rail Mount	Finger-safe DIN rail Mount	Through Panel Mount	PCB Mount
Sockets (for Blade Terminal Models)	RH1B	SH1B-05	SH1B-05C	SH1B-51	SH1B-62
	RH2B	SH2B-05	SH2B-05C	SH2B-51	SH2B-62
	RH3B	SH3B-05	SH3B-05C	SH3B-51	SH3B-62
	RH4B	SH4B-05	SH4B-05C	SH4B-51	SH4B-62

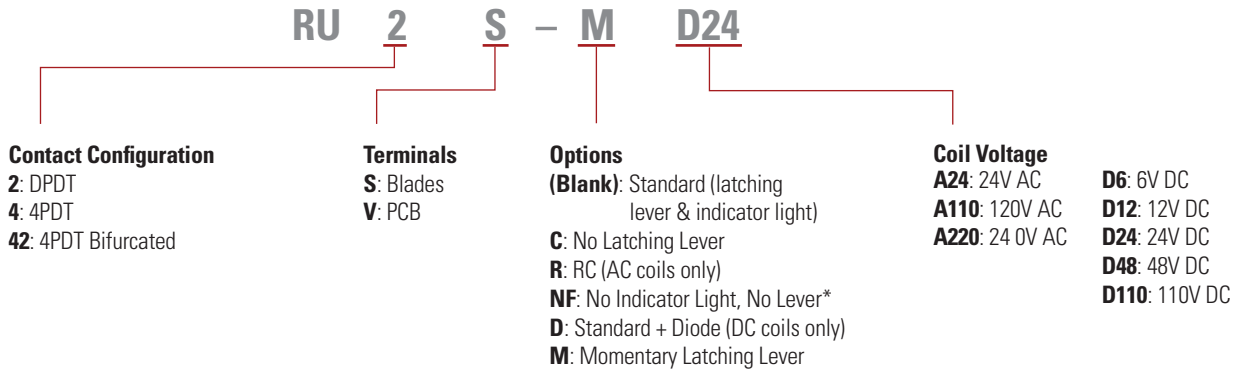
		Relays / Sockets	Description	For DIN rail mount Socket	For Through Panel & PCB Mount Socket
Accessories	Hold Down Springs & Clips	RH1B	Pullover Wire Spring	SY2S-02F1	SY4S-51F1
		RH2B		SY4S-02F1	
		RH3B		SH3B-05F1	
		RH4B		SH4B-02F1	
	DIN rail	All DIN rail mount sockets	Aluminum DIN rail (1 meter length) DIN rail End Stop	BNDN1000 BNL-5	- -

Top Selling RH Relays	
Part Number	Description
RH2B-ULAC24V	RH Relay, DPDT, with Indicator Light 24V AC
RH1B-ULAC24V	RH Relay, SPDT, with Indicator Light 24V AC
RH2B-UAC110-120V	RH Relay, DPDT, 110-120V AC
RH2B-UTAC110-120V	RH Relay, DPDT, Top Mount, 110-120V AC
RH2B-ULAC110-120V	RH Relay, SPDT, with Indicator Light, 110-120V AC
RH1B-UDC24V	RH Relay, SPDT, 24V DC
RH1B-UAC120V	RH Relay, SPDT, 120V AC
RH3B-ULAC24V	RH Relay, 3PDT, with Indicator Light, 24V AC
RH4B-ULAC120V	RH Relay, 4PDT, with Indicator Light, 120V AC
RH1B-UCDC24V	RH Relay, SPST, Check button, 24V DC

RU Series - Universal Relays



- DPDT 10A, 4PDT 6A and bifurcated 4PDT 3A contacts
- Spot-welding technology eliminates internal wires and solder
- Non-polarized, green LED
- Color-coded, snap-on marking plates
- RoHS compliant



* NF version only available with PCB terminals

		RU2	RU4	RU42
Specs	Contact Material	AgSn0In	AuAg/Ag	AuAg/AgNi
	Contact Rating	10A	6A	3A (bifurcated)
	Minimum Load (reference values)	5mA@24V DC		
	Dimensions (W x D x H) mm	21 x 27.5 x 41.4		

	Push-in terminal DIN rail Mount	Standard DIN rail Mount	Finger-safe DIN rail Mount	Panel Mount	PCB Mount
Sockets	RU2S (DPDT)	SU2S-21L	SM2S-05	SY4S-51	SM2S-61
	RU4S (4PDT)	SU4S-21L	SM2S-05C		SM2S-62
	RU42S (4PDT)		SY4S-05	SY4S-05C	SY4S-61
					SY4S-62

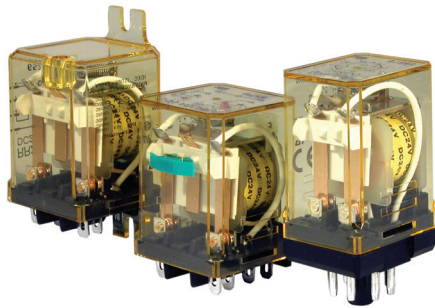
Relays / Sockets		Description	For DIN rail Mount Socket	For Through Panel & PCB Mount Socket	
Accessories	Hold Down Springs & Clips	RU2S/RU4S/RU42S	Pullover Wire Spring	SY4S-02F1	SY4S-51F1
		RU2S/RU4S/RU42S	Leaf Spring (side latch)	SFA-202	SFA-302
		RU2S/RU4S/RU42S	Leaf Spring (top latch)	SFA-101	SFA-301
	DIN rail	All DIN rail mount sockets	Aluminum DIN rail (1 meter length)	BNDN1000	-
			DIN rail End Stop	BNL-5	-
Marking Plate	All RU Relays	Replacement Marking Plates	RU9Z-P* (*Specify color code. A: orange, G: green, W: white, Y: yellow)		

Top Selling RU Relays	
Part Number	Description
RU4S-C-A110	RU Relay, 4PDT, No Latching Lever, 110V AC
RU4S-C-D24	RU Relay, 4PDT, No Latching Lever, 24V DC
RU4S-D24	RU Relay, 4PDT, Standard, 24V DC
RU4S-M-A110	RU Relay, 4PDT, Momentary Latch Lever, 110V AC
RU2S-C-A110	RU Relay, DPDT, No Latching Lever, 110V AC
RU2S-CD-D24	RU Relay, DPDT, No Latching Lever, Diode, 24V DC
RU2S-D24	RU Relay, DPDT, Standard, 24V DC
RU4S-CD-D24	RU Relay, 4PDT, No Latching Lever, Diode, 24V DC
RU42S-C-A110	RU Relay, 4PDT Bifurcated, No Latching Lever, 110V AC
RU42S-M-A110	RU Relay, 4PDT Bifurcated, Momentary Latch Lever, 110V AC

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RR Series - Power Relays



- Rugged, industrial 10A relay
- SPDT, DPDT, 3PDT 10A contacts
- Options: Indicator LED, check button and side-flange mounting
- Round 8 and 11 pin base and square-blade base relays
- Horsepower rated for small motors and solenoids
- RoHS compliant



RR 1 **BA** - **U** **L** **AC120V**

Contact Configuration
1: SPDT**
2: DPDT
3: 3PDT

Terminal Type
P: 8 Pin (DPDT)
PA: 11 Pin (3PDT)
B: Blade (3PDT)
BA: Blade (SPDT, DPDT)

Options
L: Indicator Light
C: Check button
LC: Indicator & Check button
S: Side Flange* **

Coil Voltage
AC6V **DC6V**
AC12V **DC12V**
AC24V **DC24V**
AC120V **DC48V**
AC240V **DC110V**

* Indicator light and check button not available
 ** Available in blade type only

		RR2P	RR3PA	RR1BA	RR2BA	RR3B
Specs	Contact Material	Silver (Ag)				
	Contact Rating	10A				
	Minimum Load (reference values)	10mA@24V DC, 20mA@5V DC				
	Dimensions (W x D x H) mm	29.3 x 36.4 x 56	36.4 x 36.4 x 56	36.4 x 36.4 x 55.4		

		Standard DIN rail Mount	Finger-safe DIN rail Mount	Through Panel Mount
Sockets	RR2P	SR2P-05, SR2P-06	SR2P-05C	SR2P-51
	RR3PA	SR3P-05, SR3P-06	SR3P-05C	SR3P-51
	RR1BA	SR3B-05	-	SR3B-51
	RR2BA			
	RR3B			

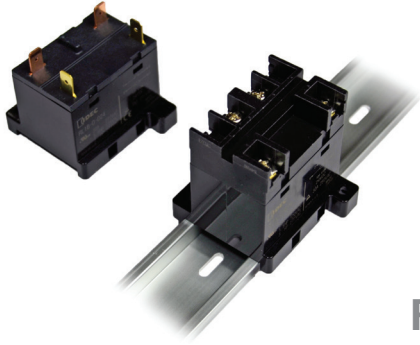
Relays / Sockets		Description	For DIN Mount Socket	For Through Panel Mount Socket
Accessories	Hold Down Springs & Clips	RR2P	SR2B-02F1	SR3P-01F1
		RR3PA	SR3B-02F1	
		RR1BA, RR2BA, RR3B	SR3B-02F1	SR3B-02F1
	DIN rail Sockets	All DIN rail Mount Sockets	Aluminum DIN rail (1 meter length)	BNDN1000
		DIN rail End Stop	BNL-5	-

Top Selling RR Relays	
Part Number	Description
RR3B-ULAC120V	RR Relay, 3PDT, Blade Type, Indicator Light, 120V AC
RR2P-UAC120V	RR Relay, DPDT, 8 Pin, 120V AC
RR3B-ULCAC120V	RR Relay, 3PDT, Blade Type, Indicator Light, Check button, 120V AC
RR2P-ULAC120V	RR Relay, DPDT, 8 Pin, Indicator Light, 120V AC
RR2P-UDC24V	RR Relay, DPDT, 8 Pin, 24V DC
RR2P-ULDC24V	RR Relay, DPDT, 8 Pin, Indicator Light, 24V DC
RR3B-UAC120V	RR Relay, 3PDT, Blade Type, 120V AC
RR2P-ULCAC120V	RR Relay, DPDT, 8 Pin, Indicator Light, Check button, 120V AC
RR3B-USAC24V	RR Relay, 3PDT, Blade Type, Side Flange, 120V AC
RR3PA-UAC120V	RR Relay, 3PDT, 11 Pin, 120V AC

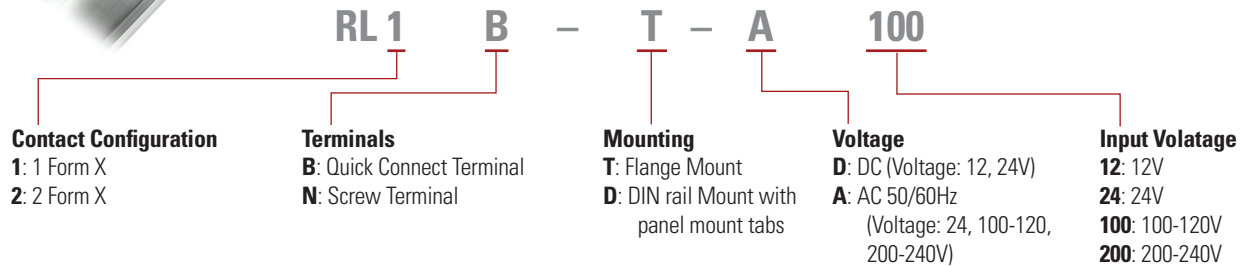
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RL Series – Power Relays



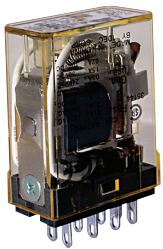
- Double Make Form X contacts
- Single pole rated at 30A, double pole at 25A
- 3HP at 277V AC, 1.5HP at 120V AC
- Flange mount or DIN rail mount with panel mount tabs
- #250 quick-connect or screw terminations
- AC or DC Coil Inputs
- Designed for motor, lighting, and heater loads
- RoHS compliant



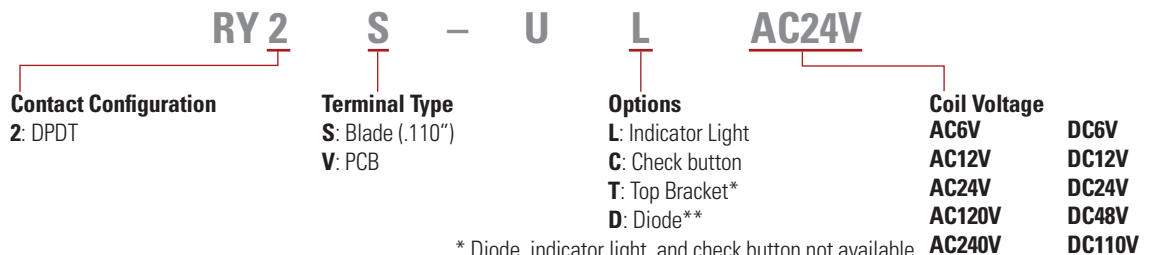
		RL1	RL2
Specs	Contact Material	AG Alloy	
	Contact Rating	250V AC 30A, 30V DC 30A	250V AC 25A, 30V DC 25A
	Allowable Switching Current	30A	25A
	Dimensions (W x D x H) mm	67 x 54 x 54	

Accessories	Part Number	Description
	RL9Z-C	Clear Screw Terminal Cover

RY Series - Miniature Relays



- Small, industrial General Purpose signaling relay
- DPDT 3A,
- Options: Indicator LED, check-button and surge-suppression diode
- Plug-in/solder and PCB terminals
- RoHS compliant



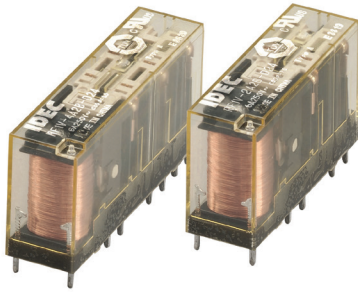
		Standard DIN rail Mount	Finger-safe DIN rail Mount	Through Panel Mount	PCB Mount
Sockets	RY2S	SY2S-05	SY2S-05C	SY2S-51	SY2S-61

		RY2
Specs	Contact Material	Silver (Ag), gold-plated
	Contact Rating	3A
	Minimum Load (reference values)	10mA@5V DC, 5mA@24V DC
	Dimensions (W x D x H) mm	14.2 x 27.5 x 41.5

		Relays / Sockets	Description	For DIN Mount Socket	For Through Panel & PCB Mount Socket
Accessories	Hold Down Springs & Clips	RY2S	Pullover Wire Spring	SY4S-02F1	SY4S-51F1
		RY2S	Leaf Spring (side latch)*	SFA-202	SFA-302
		RY2S	Leaf Spring (top latch)*	SFA-101	SFA-301
	DIN rail	All DIN rail mount sockets	Aluminum DIN rail (1 meter length) DIN rail End Stop	BNDN1000 BNL-5	– –

*Not applicable for PCB mount sockets

RF1V Series - Force-Guided 4-Pole and 6-Pole Relays



- Compact and EN compliant Force-Guided relays
- Force-guided contact mechanism (EN50205 Type A TÜV approved)
- Contact configuration:
4-pole (2NO-2NC, 3NO-1NC)
6-pole (4NO-2NC, 5NO-1NC, 3NO-3NC)
- Built-in LED indicator available
- Built-in Counter-Electromotive Force Diode and LED indicator available
- RoHS compliant



RF1V – **2A2B** **L** – **D48**

Contact Configuration
2A2B: 4-Pole, 2NO-2NC
3A1B: 4-Pole, 3NO-1NC
4A2B: 6-Pole, 4NO-2NC
5A1B: 6-Pole, 5NO-1NC
3A3B: 6-Pole, 3NO-3NC

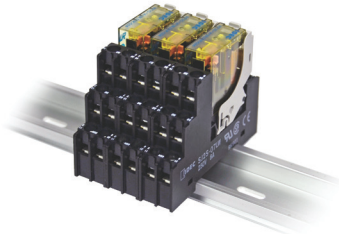
LED Indicator
Blank: No Indicator
L: LED Indicator
LD1: Counter-EMF Diode and LED Indicator

Coil Voltage
D12: 12V DC
D24: 24V DC
D48: 48V DC

		4-Pole	6-Pole
Specs	Contact Material	AgSnO ₂ (Au flashed)	
	Contact Rating	6A@250V AC, 6A@30V DC	
	Minimum Load (reference values)	5V DC 1mA	
	Dimensions (W x D x H) mm	13 x 40 x 27.5	13 x 50 x 27.5

		Relays	Finger-safe DIN rail/Panel Mount	PCB Mount
Sockets	RF1V (4 pole)		SF1V-4-07L	SF1V-4-61
	RF1V (6 pole)		SF1V-6-07L	SF1V-6-61

RF2V/RF2S Series – Force-Guided 2-Pole Relays



- 2-Pole Force-Guided relay contact mechanism (EN50205 Type A TUV Approved)
- Mechanical indicator shows contact status
- RTIII degree of protection, LED indicator and Diode models available
- Can be used with SJ Series Sockets



RF **2** **S** – **1A1B** **LD1** **K** – **D24**

Series **No. of Poles** **Terminal Style** **Contact Configuration** **Option** **Degree of Protection** **Rated Coil Voltage**

2: 2-Pole **S:** Plug-in
V: PC Board **1A1B:** SPST-NO + SPST-NC
2C: DPDT **Blank:** Standard
L: With LED Indicator
D: With Diode
D1: With Diode of reverse polarity coil
LD: With LED Indicator & Diode
LD1: With LED Indicator & Diode of reverse polarity coil **Blank:** RTII
K: RTIII **D12:** 12V DC
D24: 24V DC
D48: 48V DC

		2-Pole
Specs	Contact Material	AgNi+AU-Clad
	Contact Rating	NO - 6A@240V AC, 6A@24V DC NC - 3A@240V AC, 3A@24V DC
	Minimum Load (reference values)	1V DC, 1mA
	Dimensions (W x D x H) mm	28 x 12.7 x 25.4

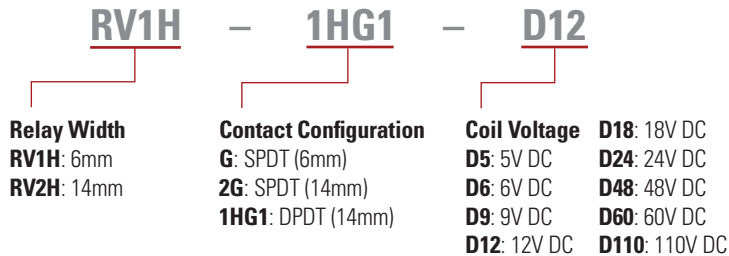
		Standard DIN rail Mount	Finger-safe DIN rail Mount	PCB Mount
Sockets	RF2	SJ2S-05BW	SJ2S-07LW	SJ2S-61

Printed Circuit Board Mount Relays - (PCB Mount)

RV1H Series – Interface Relays



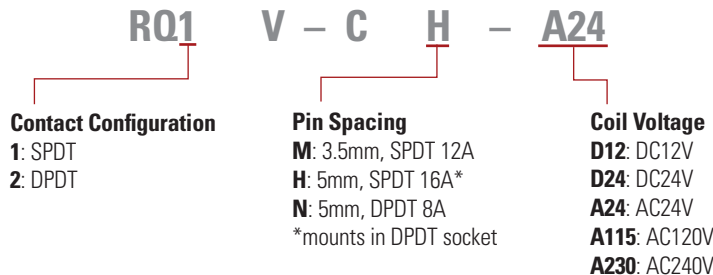
- Gold-plated contacts
- 6A contact rating on 6mm RV1H, 8A on RV2H-1HG1, 16A rating on RV1H-2G
- Operating temperature of -40°C ~ 70°C
- RoHS compliant



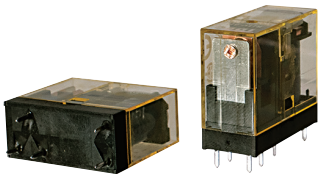
RQ Series – PCB Mount Relays



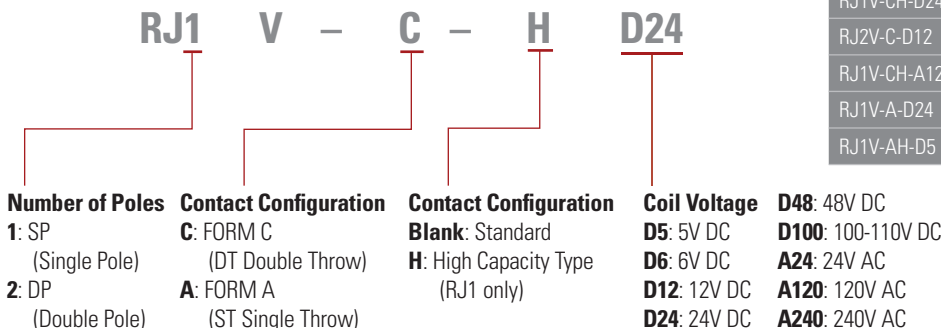
- RQ PCB Relay ideal for compact high current applications
- Compact size: 29 x 12.7 x 15 mm
- Contact rating: 12A (SPDT) 8A (DPDT) 16A (SPDT High Capacity Version)
- Electrical life: 100,000 cycles at full resistive load
- Mechanical life: 10 million cycles at no load
- UL Recognized, c-UL recognized, CE, EN complaint, and TUV



RJ Series - PCB Mount Relays



- RJ Slim GP Relay ideal for space-saving application
- Compact size: 12.7 x 25.5 x 28.8mm
- Long electrical life and mechanical life
- Electrical life: 200,000 cycles (AC Load) and 100,000 cycles (DC Load)
- Mechanical life: 30 million cycles (AC coil) and 50 million cycles (DC coil)
- RoHS compliant (2002/95/EC)



Top Selling RV1H and RV2H Relays

Part Number	Description
RV1H-G-D12	RV1H Relay, 6mm, SPDT, 12V DC
RV1H-G-D24	RV1H Relay, 6mm, SPDT, 24V DC
RV1H-G-D5	RV1H Relay, 6mm, SPDT, 5V DC
RV1H-G-D60	RV1H Relay, 6mm, SPDT, 60V DC
RV1H-G-D9	RV1H Relay, 6mm, SPDT, 9V DC
RV2H-1HG1-D110	RV2H Relay, 14mm, SPDT, 110V DC
RV2H-1HG1-D24	RV2H Relay, 14mm, SPDT, 24V DC
RV2H-1HG1-D48	RV2H Relay, 14mm, SPDT, 48V DC
RV2H-2G-D110	RV2H Relay, 14mm, DPDT, 110V DC
RV2H-2G-D24	RV2H Relay, 14mm, DPDT, 24V DC

Top Selling RQ Relays

Part Number	Description
RQ1V-CH-A115	RQ1V Relay, SPDT, 5mm Pin Space, 115V AC
RQ1V-CH-A24	RQ1V Relay, SPDT, 5mm Pin Space, 24V AC
RQ1V-CH-D12	RQ1V Relay, SPDT, 5mm Pin Space, 12V DC
RQ1V-CH-D24	RQ1V Relay, SPDT, 5mm Pin Space, 24V DC
RQ1V-CM-A24	RQ1V Relay, SPDT, 3.5mm Pin Space, 24V AC
RQ1V-CM-D12	RQ1V Relay, SPDT, 3.5mm Pin Space, 12V DC
RQ1V-CM-D24	RQ1V Relay, SPDT, 3.5mm Pin Space, 24V DC
RQ2V-CN-A24	RQ2V Relay, DPDT, 5mm Pin Space, 24V AC
RQ2V-CN-D12	RQ2V Relay, DPDT, 5mm Pin Space, 12V DC
RQ2V-CN-D24	RQ2V Relay, DPDT, 5mm Pin Space, 24V DC

Top Selling RJ Relays

Part Number	Description
RJ2V-C-D24	RJ2V Relay, DPDT, 24V DC
RJ2V-C-A24	RJ2V Relay, DPDT, 24V AC
RJ2V-C-A120	RJ2V Relay, DPDT, 120V AC
RJ1V-C-D24	RJ1V Relay, SPDT, 24V DC
RJ1V-AH-D12	RJ1V Relay, SPST, 12V DC
RJ1V-CH-D24	RJ1V Relay, SPDT, High Capacity, 24V DC
RJ2V-C-D12	RJ2V Relay, DPDT, 12V DC
RJ1V-CH-A120	RJ1V Relay, SPDT, High Capacity, 120V AC
RJ1V-A-D24	RJ1V Relay, SPST, 24V AC
RJ1V-AH-D5	RJ1V Relay, SPST, High Capacity, 5V DC

800.262.4332

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RSC Series – Solid State Relays



- Choice of 20A, 30A and 45A models
- Slim design allows for compact DIN rail or panel mounting
- Built-in heat sink
- Epoxy-free design and improved thermal impedance
- LED indicator
- Finger-safe terminals
- Zero voltage switching

RSC A1N – 10A

Input Voltage

A1N: AC (90-140V AC)
A2N: AC (180-280V AC)
DN: DC (4-32V DC)

Continuous Output Current

20A: 20 Amp
30A: 30 Amp
45A: 45 Amp

Top Selling RSC Relays	
Part Number	Description
RSCA1N-20A	RSC Relay, Input 90 -140V AC, output 20A
RSCA1N-30A	RSC Relay, Input 90 -140V AC, output 30A
RSCA1N-45A	RSC Relay, Input 90 -140V AC, output 45A
RSCA2N-20A	RSC Relay, Input 180-280V AC, output 20A
RSCA2N-45A	RSC Relay, Input 180-280V AC, output 45A
RSCDN-20A	RSC Relay, Input 4 - 32V DC, output 20A
RSCDN-30A	RSC Relay, Input 4 - 32V DC, output 30A
RSCDN-45A	RSC Relay, Input 4 - 32V DC, output 45A

RSS Series – Solid State Relays



- Current ratings up to 90A at 660V AC
- AC (90-280V) or DC (4-32V) input
- Input current regulated 10mA
- Photo isolation of input and output (up to 4000V)
- Zero voltage turn on
- Dual SCR output with built-in snubber

RSS AN – 10A

Input Voltage

AN: 90-280V AC
DN: 3-32V DC

Continuous Output Current

10A: 10 Amp
25A: 25 Amp
50A: 50 Amp
75A: 75 Amp
90A: 90 Amp

Top Selling RSS Relays	
Part Number	Description
RSSAN-10A	RSS Relay, AC input, 10 Amp output
RSSAN-25A	RSS Relay, AC input, 25 Amp output
RSSAN-50A	RSS Relay, AC input, 50 Amp output
RSSAN-75A	RSS Relay, AC input, 75 Amp output
RSSAN-90A	RSS Relay, AC input, 90 Amp output
RSSDN-10A	RSS Relay, DC input, 10 Amp output
RSSDN-25A	RSS Relay, DC input, 25 Amp output
RSSDN-50A	RSS Relay, DC input, 50 Amp output
RSSDN-75A	RSS Relay, DC input, 75 Amp output
RSSDN-90A	RSS Relay, DC input, 90 Amp output

RV8S Series – Solid State Interface Relays



- Long electrical life
- Pre-assembled relay and DIN rail mount socket
- Built-in LED indicator
- Screw and spring-clamp socket terminations
- Operating temperature: -20 to +70C
- RoHS compliant

RV8S – L – D24 – D24

Terminal

L: Screw
S: Spring Clamp

Output Voltage

D24: 24V DC
D48: 48V DC
A240: 240V AC
A240Z: 240V AC Zero Crossing

Input Voltage

6V: 6V DC
24V: 24V DC
120V: 120V AC
240V: 240V AC

Top Selling RV8S Relays	
Part Number	Description
RV8S-L-D24-D24	RV8S Relay, Screw Terminal, Input 24V DC, output 24V DC
RV8S-S-D24-D24	RV8S Relay, Spring Clamp, Input 24V DC, output 24V DC
RV8S-L-A240Z-D24	RV8S Relay, Screw Terminal, Input 24V DC, output 240V, Zero Crossing
RV8S-S-D48-D6	RV8S Relay, Spring Clamp, Input 6V DC, output 48V DC
RV8S-S-D48-D24	RV8S Relay, Spring Clamp, Input 24V DC, output 48V DC
RV8S-L-D48-D24	RV8S Relay, Screw Terminal, Input 48V DC, output 24V DC
RV8S-S-D24-D6	RV8S Relay, Spring Clamp, Input 24V DC, output 6V DC
RV8S-L-A240-D24	RV8S Relay, Screw Terminal, Input 24V DC, output 240V AC
RV8S-L-D24-A120	RV8S Relay, Screw Terminal, Input 120V AC, output 24V DC

Relay & Socket Cross Reference Guide

Allen-Bradley	IDEC
700-HA32	RR2P
700-HA33	RR3PA
700-HAB2	RR2P
700-HAB3	RR3PA
700-HAX2	RR2P
700-HAX3	RR3PA
700-HB32	RR2BA
700-HB33	RR3B
700-HC14	RU4S
700-HC24	RU4S
700-HC54	RU42S
700-HD32	RR2BA-US
700-HD33	RR3B-US
700-HF32	RH2B
700-HF33	RH3B
700-HF34	RH4B
700-HK32_	RJ2S-C
700-HK32_-4L	RJ2S-CL
700-HK36	RJ1S-C
700-HK36_-4L	RJ1S-CL
700-HLT12248	RV8H-L-D48
700-HLT12248X	RV8H-L-D48
700-HLT1U1	RV8H-L-AD110
700-HLT1U12	RV8H-L-AD12
700-HLT1U12X	RV8H-L-AD12
700-HLT1U1X	RV8H-L-AD110
700-HLT1U2	RV8H-L-AD220
700-HLT1U24	RV8H-L-AD24
700-HLT1U24X	RV8H-L-AD24
700-HLT1U2X	RV8H-L-AD220
700-HLT1U48	RV8H-L-AD48
700-HLT1U48X	RV8H-L-AD48
700-HLT1Z12	RV8H-L-D12
700-HLT1Z12X	RV8H-L-D12
700-HLT1Z24	RV8H-L-D24
700-HLT1Z24X	RV8H-L-D24
700-HLT2248	RV8H-S-D48
700-HLT2U1	RV8H-S-AD110
700-HLT2U12	RV8H-S-AD12
700-HLT2U2	RV8H-S-AD220
700-HLT2U24	RV8H-S-AD24
700-HLT2U48	RV8H-S-AD48
700-HLT2Z12	RV8H-S-D12
700-HLT2Z24	RV8H-S-D24
700-HPX2	RQ2V-CN
700-TBR12	RV1H-G-D12
700-TBR24	RV1H-G-D24
700-TBR48	RV1H-G-D48
700-TBR60	RV1H-G-D60
700-HN116	SH2B-05
700-HN121	SJ1S-05B
700-HN122	SJ2S-05B
700-HN123	SO2V-07B
700-HN125	SR2P-06
700-HN126	SR3P-06
700-HN128	SY4S-05
700-HN138	SH3B-05
700-HN139	SH4B-05
700-HN154	SR3B-05
700-HN177	SV9Z-SAW
700-TBJ20*	SV9Z-J20*
1492-MC6X10	SV9Z-PW16

ABB	IDEC
D 2,5/5-MP-24VDC	RV1H-G-D24
D 2,5/5-MP-48VDC	RV1H-G-D48
D 2,5/5-R121AL-24VAC/DC	RV8H-L-AD24
D 2,5/5-R121AL-48VAC/DC	RV8H-L-AD48
D 2,5/5-R121BL-110VAC	RV8H-L-AD110
D 2,5/5-R121BL-230VAC	RV8H-L-AD220
D 2,5/5-R121L-24VDC	RV8H-L-D24
Socket RC55	SV9Z-PW16
Cutler-Hammer	IDEC
D2PR2	RU2S
D2PR4	RU4S
D3PR2	RR2P
D3PR3	RR3PA
D3PR5	RR2KP
D5PR2	RR2P
D5PR3	RR2P
D7PR2	RH2B
D7PR3	RH3B
D7PR4	RH4B
XRR1D12	RV1H-G-D12
XRR1D24	RV1H-G-D24
XRU1D12	RV8H-L-D12
XRU1D120U	RV8H-L-AD110
XRU1D24	RV8H-L-D24
XRU1D24U	RV8H-L-AD24
D2PA4	SY4S-05
D2PA6	SY4S-05
D5PA2	SR3B-05
D3PA2	SR2P-05
D3PA3-A2	SR3P-06
D3PA4	SR2P-51
D3PA2	SR2P-05
D7PA2	SH2B-05
D7PA5	SH2B-51
D7PA3	SH3B-05
D7PA4	SH4B-05
Cyberdyn	IDEC
Relay HJQ-22F	RU4S/RV4S
Socket PYF14A-A	SY4S-05
Finder	IDEC
34.51.7.005.0010	RV1H-G-D6
34.51.7.012.0010	RV1H-G-D12
34.51.7.024.0010	RV1H-G-D24
34.51.7.048.0010	RV1H-G-D48
34.51.7.060.0010	RV1H-G-D60
38.51.0.012.5060	RV8H-L-AD18
38.51.0.024.5060	RV8H-L-AD24
38.51.0.048.5060	RV8H-L-AD48
38.51.0.060.5060	RV8H-L-AD60
38.51.0.125.5060	RV8H-L-AD110
38.51.0.240.5060	RV8H-L-AD220
38.51.7.006.5050	RV8H-L-D6
38.51.7.012.5050	RV8H-L-D12
38.51.7.024.5050	RV8H-L-D24
38.51.7.048.5050	RV8H-L-D48
38.61.0.012.5060	RV8H-S-AD18
38.61.0.024.5060	RV8H-S-AD24
38.61.0.048.5060	RV8H-S-AD48
38.61.0.060.5060	RV8H-S-AD60
38.61.0.125.5060	RV8H-S-AD110
38.61.0.240.5060	RV8H-S-AD220
38.61.7.006.5050	RV8H-S-D6

38.61.7.012.5050	RV8H-S-D12
38.61.7.024.5050	RV8H-S-D24
38.61.7.048.5050	RV8H-S-D48
41.31./40.31.	RQ1V-CM
41.52./40.52.	RQ2V-CN
41.61./40.61.	RQ1V-CH
46.61._0	RJ1S-C
93.01	SV9Z-PW16
93.2	SV9Z-J20*
93.64	SV9Z-SAW
93.01.0.024	SV1H-07L-1
93.01.0.060	SV1H-07L-2
93.01.0.125	SV1H-07L-3
93.01.0.240	SV1H-07L-4
93.51.0.024	SV1H-07LS-1
93.51.0.060	SV1H-07LS-2
93.51.0.125	SV1H-07LS-3
93.51.0.240	SV1H-07LS-4
95.03/95.83.3	SQ1V-07B
95.05/95.85.3	SQ2V-07B
Omron	IDEC
G2R-1	RQ1V-CM
G2R-1-E	RQ1V-CH
G2R-1-S	RJ1S-C
G2R-1-SN	RJ1S-CL
G2R-2	RQ2V-CN
G2R-2-S	RJ2S-C
G2R-2-SN	RJ2S-CL
G2RL-1	RQ1V-CM
G2RL-1-E	RQ1V-CH
G2RL-2	RQ2V-CN
G2RV-1-S DC11	RV1H-G-D12
G2RV-1-S DC21	RV1H-G-D24
G2RV-1-S DC48	RV1H-G-D48
G2RV-SL500-AC/DC24	RV8H-S-AD24
G2RV-SL500-AC/DC48	RV8H-S-AD48
G2RV-SL500-AC110	RV8H-S-AD110
G2RV-SL500-AC230	RV8H-S-AD220
G2RV-SL500-DC12V	RV8H-S-D12
G2RV-SL500-DC24V	RV8H-S-D24
G2RV-SL700-AC/DC24	RV8H-L-AD24
G2RV-SL700-AC/DC48	RV8H-L-AD48
G2RV-SL700-AC110	RV8H-L-AD110
G2RV-SL700-AC230	RV8H-L-AD220
G2RV-SL700-DC12V	RV8H-L-D12
G2RV-SL700-DC24V	RV8H-L-D24
G7SA-2A2B	RF1V-2A2B
G7SA-3A1B	RF1V-3A1B
G7SA-3A3B	RF1V-3A3B
G7SA-4A2B	RF1V-4A2B
G7SA-5A1B	RF1V-5A1B
LY2	RH2
LY3	RH3
LY4	RH4
MJN1	RR1BA
MJN2	RR2BA
MJN3	RR3B
MK2P	RR2P
MK3P	RR3PA
MRL	RR2KP
MY2	RU2
MY4	RU4/RV4

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Omron	IEEC
P2RF-05	SJ1S-05B
P2RF-05-E	SJ1S-07L
P2RF-08	SJ2S-05B
P2RF-08-E	SJ2S-07L
P2RV-S	SV9Z-SAW
P2RVM-200*	SV9Z-J20*
P7SA-10F	SF1V-4-07L
P7SA-10P	SF1V-4-61
P7SA-14F	SF1V-6-07L
P7SA-14P	SF1V-6-61
PF083A-E	SR2P-06
PF113A-E	SR3P-05
PTF08A-E	SH2B-05
PTF11A	SH3B-05
PTF11PC	SR3B-05
PTF14A-E	SH4B-05
PYF08A-E	SM2S-05
PYF14A-E	SY4S-05
R99-15 for G2RV	SV9Z-PW16

Panasonic/Aromat/Matsushita	IEEC
AHN1	RJ1S-CL
AHN2	RJ2S-CL
SFS2	RF1V-2A2B
SFS2-L	RF1V-2A2BL
SFS2-D	RF1V-2A2BD
SFS2-L-D	RF1V-2A2BLD
SFS3	RF1V-3A1B
SFS3-L	RF1V-3A1BL
SFS3-D	RF1V-3A1BD
SFS3-L-D	RF1V-3A1BLD
SFS4	RF1V-4A2B
SF4S-L	RF1V-4A2BL
SF4S-D	RF1V-4A2BD
SF4S-L-D	RF1V-4A2BLD
SF5S	RF1V-5A1B
SF5S-L	RF1V-5A1BL
SF5S-D	RF1V-5A1BD
SF5S-L-D	RF1V-5A1BLD
SF56	RF1V-3A3B
SF56-L	RF1V-3A3BL
SF56-D	RF1V-3A3BD
SF56-L-D	RF1V-3A3BLD
AHNA11	SJ1S-05B
AHNA21	SJ2S-05B

Phoenix Contact	IEEC
PLC-RSP-12DC/21	RV8H-S-D12
PLC-RSC-120UC/21	RV8H-L-AD110
PLC-RSC-120UC/21AU	RV8H-L-AD110
PLC-RSC-12DC/21	RV8H-L-D12
PLC-RSC-12DC/21AU	RV8H-L-D12
PLC-RSC-230UC/21	RV8H-L-AD220
PLC-RSC-230UC/21AU	RV8H-L-AD220
PLC-RSC-24DC/21	RV8H-L-D24
PLC-RSC-24DC/21AU	RV8H-L-D24
PLC-RSC-24UC/21	RV8H-L-AD24
PLC-RSC-24UC/21AU	RV8H-L-AD24
PLC-RSC-48DC/21	RV8H-L-D48
PLC-RSC-48DC/21AU	RV8H-L-D48
PLC-RSC-12DC/21 C1D2	RV8H-L-D12-C1D2
PLC-RSC-24DC/21 C1D2	RV8H-L-D24-C1D2
PLC-RSC-120UC/21 C1D2	RV8H-L-AD110-C1D2
PLC-RSC-230UC/21 C1D2	RV8H-L-AD220-C1D2
PLC-RSP-120UC/21	RV8H-S-AD110
PLC-RSP-230UC/21	RV8H-S-AD220
PLC-RSP-24DC/21	RV8H-S-D24
PLC-RSP-24UC/21	RV8H-S-AD24
PLC-RSP-48DC/21	RV8H-S-D48

PLC-RSP-24DC/21 C1D2	RV8H-S-D24-C1D2
PLC-RSP-120UC/21 C1D2	RV8H-S-AD110-C1D2
REL-MR- 12DC/21	RV1H-G-D12
REL-MR- 12DC/21AU	RV1H-G-D12
REL-MR- 24DC/21	RV1H-G-D24
REL-MR- 24DC/21AU	RV1H-G-D24
REL-MR- 48DC/21	RV1H-G-D48
REL-MR- 48DC/21AU	RV1H-G-D48
REL-MR- 60DC/21	RV1H-G-D60
REL-MR- 60DC/21AU	RV1H-G-D60

Relco (Turck)	IEEC
C2-A20	RR2P
C3-A20	RR3PA
C4-A40	RU4S
C5-A20	RR2BA
C5-A30	RR3B
C7-A20	RH2B
C9-A41	RU42S
C10-A10	RJ1S-CL
S2-B	SR2P-06
S2-S	SR2P-05C
S2-L	SR2P-51
S3-B	SR3P-06
S3-S	SR3P-05C
S3-L	SR3P-51
S4-B	SY4S-05C
S5-S	SR3B-05
S5-L	SR3B-51
S7-M	SH2B-05C
S7-16	SH2B-05C
S7-L	SH2B-51
S7-P	SH2B-62
S9-M	SY4S-05C
S9-L	SY4S-51
S9-P	SY4S-62
S-10	SJ1S-07L

Relpol	IEEC
PIR6W-1P-115VAC/DC	RV8H-L-AD110
PIR6W-1P-115VAC/DC-01	RV8H-L-AD110
PIR6W-1P-12VDC	RV8H-L-D12
PIR6W-1P-12VDC-01	RV8H-L-D12
PIR6W-1P-230VAC/DC	RV8H-L-AD220
PIR6W-1P-230VAC/DC-01	RV8H-L-AD220
PIR6W-1P-24VAC/DC	RV8H-L-AD24
PIR6W-1P-24VAC/DC-01	RV8H-L-AD24
PIR6W-1P-24VDC	RV8H-L-D24
PIR6W-1P-24VDC-01	RV8H-L-D24
RM699V-3011-85-1012	RV1H-G-D12
RM699V-3011-85-1024	RV1H-G-D24
RM699V-3011-85-1060	RV1H-G-D60
PIR6W-1P-115VAC/DC	SV1H-07L-3
PIR6W-1P-230VAC/DC	SV1H-07L-4
PIR6W-1P-24VAC/DC	SV1H-07L-1
ZG20-1*	SV9Z-J20*

Schneider Electric, Magnecraft Brand	IEEC
750XB	RR2P
750XC	RR3PA
78(1)XAX	RH1B
782XB	RH2B
782XB1	RU2S
782XB2	RU2S
782XD1	RU4S
782XD2	RU4S
782XD3	RU42S
783XC	RH3B
784XD	RH4B
788XB	RR2BA
788XC	RR3B
78XC	RH3B
78XD	RH4B
A283XAX	RR1BA
A283XB	RR2BA
A283XC	RR3B
A314XB	RR2P
A314XC	RR3PA
RSL 1AB4BD	RV1H-G-D24
RSL 1AB4ED	RV1H-G-D48
RSL 1AB4JD	RV1H-G-D12
RSL 1AB4ND	RV1H-G-D60
RSL 1PRBU	RV8H-S-AD24
RSL 1PREU	RV8H-S-AD48
RSL 1PRFU	RV8H-S-AD110
RSL 1PRJU	RV8H-S-AD12
RSL 1PRPU	RV8H-S-AD220
RSL 1PVBU	RV8H-L-AD24
RSL 1PVEU	RV8H-L-AD48
RSL 1PVFU	RV8H-L-AD110
RSL 1PVJU	RV8H-L-AD12
RSL 1PVPU	RV8H-L-AD220
W250ACPX	RR2P
W250CPX	RR3PA
W388	RR*B
W78(A)CSX	RU4S
W78(A)R	RH2B
W78(A)T	RU42S
70-464-1	SR2P-06
70-465-1	SR3P-06
70-459-1	SH2B-05
70-461-1	SY4S-05
70-783D-1	SH3B-05C
70-463-1	SR3B-05
70-124-1	SR3B-51
70-378-1	SY4S-51
70-401-1	SH2B-51
70-402-1	SH2B-62
70-379-1	SY4S-61
70-781D-1	SH1B-05
70-781F-1	SH1B-51
70-781T-1	SH1B-62
70-784D-1	SH4B-05C
70-78D-1	SH4B-05
RSL ZRA1	SV1H-07LS-1
RSL ZRA2	SV1H-07LS-2
RSL ZRA3	SV1H-07LS-3
RSL ZRA4	SV1H-07LS-4
RSL ZVA1	SV1H-07L-1
RSL ZVA2	SV1H-07L-2
RSL ZVA3	SV1H-07L-3
RSL ZVA4	SV1H-07L-4
RSL Z2	SV9Z-J20*

Square D by Schneider Electric		IDEC
Relays	8501KF12	RR2BA-US
	8501KF13	RR3B-US
	8501KP12	RR2P
	8501KP13	RR3PA
	8501KU12	RR2BA
	8501KU13	RR3B
	8501RS(D)14	RU4S/R4Y4S
	8501RS(D)24	RU42S/R4Y42S
	8501RS(D)4	RU4S/R4Y4S
	8501RS(D)41	RH1B
8501RS(D)42	RH2B	
8501RS(D)43	RH3B	
8501RS(D)44	RH4B	
Sockets	8501NR82	SR3B-05
	8501NR52	SR2P-05
	8501NR52F	SR2P-05C
	8501NR62	SR3P-05
	8501NR62F	SR3P-05C
	8501NR61	SR3P-06
	8501NR45	SY4S-05
	8501NR45F	SY4S-05C
	8501NR41	SH1B-05
	8501NR42	SH2B-05
8501NR42F	SH2B-05C	
8501NR43	SH3B-05	
8501NR34	SH4B-05	

TE Connectivity, Potter & Brumfield		IDEC
Relays	K10	RH2B
	KHAE-11	RM2V
	KHAE-17	RY4V
	KHAU-11	RU2S
	KHAU-17	RU4S
	KRP(A)-11	RR2P
	KRP(A)-14	RR3PA
	KUP-11	RR2BA
	KUP-14	RR3B
	KUP-5	RR1BA
	KUP93-11	RR3B
	RT114_F	RQ1V-CM
	RT424_F	RQ2V-CN
	RT314_F	RQ1V-CH
Sockets	8-1415035-1	SQ1V-07B
	6-1415035-1	SO2V-07B
	27E895	SH2B-05
	27E489	SH2B-62
	27E024	SY4S-62
	27E891	SR2P-06
	27E892	SR2P-05
	27E123	SR3P-06
	27E893	SR3B-05
	27E168	SR3B-51

TE Connectivity, Schrack		IDEC
Relays	MT2	RR2P
	MT3	RR3PA
	PT2	RU2S
	PT4	RU4S
	RM2	RR2BA
	RM3	RR3B
	RT114	RQ1V-CM
	RT314	RQ1V-CH
	RT424	RQ2V-CN
	ST3P2LC4	RV8H-L-D24
	ST3P3LB2	RV8H-L-D12
	ST3P3LC4	RV8H-L-D24
	ST3P3SM5	RV8H-L-AD110
	ST3P3TP0	RV8H-L-AD220
	ST4P3LB2	RV8H-S-D12
	ST4P3LC4	RV8H-S-D24
	ST4P3SM5	RV8H-S-AD110
	ST4P3TP0	RV8H-S-AD220
	V23092-S1012-A301	RV1H-G-D12
	V23092-S1024-A301	RV1H-G-D24
V23092-S1060-A301	RV1H-G-D60	
Sockets	8-1415035-1	SQ1V-07B
	6-1415035-1	SO2V-07B
	MT78755	SR2P-06
	MT78750	SR3P-06
	PT78702	SM2S-05
	PT78704	SY4S-05
	27E023/27E220	SY4S-61
	ST3FLC4	SV1H-07L-1
	ST3FSM5	SV1H-07L-3
	ST3FTP0	SV1H-07L-4
ST4FLC4	SV1H-07LS-1	
ST4FSM5	SV1H-07LS-3	
ST4FTP0	SV1H-07LS-4	

Weidmuller		IDEC
Relays	MRS 12 VDC 1C0	RV8H-L-D12
	MRS 12VDC 1C0 C1D2	RV8H-L-D12-C1D2
	MRS 120 VUC 1C0	RV8H-L-AD110
	MRS 230 VUC 1C0	RV8H-L-AD220
	MRS 24 VUC 1C0	RV8H-L-D24
	MRS 24 VUC 1C0	RV8H-L-AD24
	MRS 24VDC 1C0 C1D2	RV8H-L-D24-C1D2
	MRS 24VUC 1C0 C1D2	RV8H-L-AD24-C1D2
	MRS 5 VDC 1C0	RV8H-L-D6
	MRZ 12 VDC 1C0	RV8H-S-D12
	MRZ 120 VUC 1C0	RV8H-S-AD110
	MRS 120 VUC 1C0 C1D2	RV8H-L-AD110-C1D2
	MRZ 230 VUC 1C0	RV8H-S-AD220
	MRS 230 VUC 1C0 C1D2	RV8H-L-AD220-C1D2
	MRZ 24 VDC 1C0	RV8H-S-D24
MRZ 24 VUC 1C0	RV8H-S-AD24	
MRZ 5 VDC 1C0	RV8H-S-D6	
RSS112060 60Vdc-Rel1U	RV1H-G-D60	
RSS113012 12Vdc-Rel1U	RV1H-G-D12	
RSS113024 24Vdc-Rel1U	RV1H-G-D24	
Sockets	WS 12/6	SV9Z-PW16
	ZQV 4N / 20 *	SV9Z-J20*

*Indicates additional digits required to complete part number.

Note: The cross references listed are the closest match physically and functionally. If you are looking to match a specific application requirement, please refer to our Industrial Automation Catalog. For an evaluation unit or technical support, contact IDEC or call your local sales representative.

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