## **RR Series Power Relays**

**Part Number Selection** 

RR2P-U 🗌

RR2P-UL

RR2P-UC □

RR2P-ULC □

RR3PA-U 🗌

RR3PA-UL 🗌

RR3PA-UC □

RR3PA-ULC

\_

**Pin Terminal** 

Part Number

Blade Terminal\*

RR1BA-U

RR1BA-UL

RR1BA-UC □

RR1BA-ULC

RR1BA-US

RR2BA-U

RR2BA-UL

RR2BA-UC □

RR2BA-ULC

RR2BA-US □

RR3B-U 🗌

RR3B-UL 🗌

RR3B-UC □

RR3B-ULC □

RR3B-US

#### **Key features:**

Contact

SPDT

DPDT

3PDT

- SPDT through 3PDT, 10A contacts
- Midget power type relays
- · Available in pin and blade terminal styles.
- Options include an indicator, check button for test operations and side flange.
- DIN rail, surface and panel mount sockets are available for a wide a variety of mounting applications.





Standard

Standard

Standard

With Indicator

With Check Button

Side Flange Model

With Indicator

With Check Button

Side Flange Model

With Indicator

With Check Button

Side Flange Model

With Indicator and Check Button

With Indicator and Check Button

With Indicator and Check Button

Model





Coil Voltage Code

(Standard Stock Items in Bold)

AC6V, AC12V, AC24V, AC110V, AC120V,

DC6V, DC12V, DC24V, DC48V, DC110V

AC240V,

Side fla

\*Blade type not TUV tested or CE marked.

inge model mounts directly to panel with no socket required.

and coil voltage code:
C120V
Coil Voltage Code

#### Sockets

Relays	Standard DIN Rail Mount	Finger-safe DIN Rail Mount	Through Panel Mount
RR2P	SR2P-05 SR2P-06	SR2P-05C	SR2P-51
RR3PA	SR3P-05 SR3P-06	SR3P-05C	SR3P-51
RR1BA RR2BA RR3B	SR3B-05	_	SR3B-51



Signaling Lights

Relays & Sockets

## Hold Down Springs & Clips

Appearance	Description	Relay	For DIN Mount Socket	For Through Panel & PCB Mount Socket	
~	Pullover Wire Spring	RR2P	SR2B-02F1	SR3P-01F1	
$< \$		RR3PA	SR3B-02F1	3036-0161	
<u>`</u>		RR1BA, RR2BA, RR3B	SR3B-02F1	SR3B-02F1	
Se.	Leaf Spring (side latch)	RR2P, RR3PA	SFA-203	_	

## Accessories

ltem	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	A CONTRACTOR	DIN rail	BNL5	9.1 mm wide.
Replacement		Horseshoe clip for sockets SR3B-05, SR2P-06, SR3P-06	Y778-011	For use on DIN rail mount socket when using pullover wire hold down
Hold-Down Spring Anchor	p.	Chair clip for sockets SR2P-05(C), SR3P-05(C)	Y703-102	spring. 2 pieces included with each socket.

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# **Relays & Sockets**

## Specifications

Contact Materia	I	Silver				
Contact Resistar	ice 1	30 mΩ maximum				
Minimum Applic	able Load	1V DC, 10 mA				
Operating Time	2	25 ms maximum				
Release Time	2	25 ms maximum				
Power Consump	tion (approx.)	AC: 3 VA (50 Hz), 2.5 V DC: 1.5W	/A (60 Hz)			
Insulation Resist	ance	100 MΩ minimum (500	OV DC megger)			
		Between live and dea	d parts:	1500V AC, 1 minute		
Dielectric	Pin Terminal	Between contact and	coil:	1500V AC, 1 minute		
	Pin terminal	Between contacts of c	different poles:	1500V AC, 1 minute		
		Between contacts of t	the same pole:	1000V AC, 1 minute		
Strength	Blade Terminal	Between live and dear	d parts:	2000V AC, 1 minute	1. Measured using 5V DC, 1A volta	
		Between contact and	coil:	2000V AC, 1 minute	<ol> <li>Measured at the rated voltage ( bouncing</li> </ol>	
		Between contacts of c	different poles:	2000V AC, 1 minute	<ol> <li>For use under different temperat Continuous Load Current vs. Operation</li> </ol>	
		Between contacts of t	the same pole:	1000V AC, 1 minute		continuous zoda current ve. oporating remporatino
Operating Freque	0.D.0./	Electrical:	1800 operations	s/h maximum		
Operating Frequ	ency	Mechanical:	18,000 operation	ns/h maximum		
Vibration Resista	220	Damage limits:	10 to 55 Hz, amp	plitude 0.5 mm		
	ince	Operating extremes:	10 to 55 Hz, amp	plitude 0.5 mm		
Shock Resistanc		Damage limits:	1000 m/s² (100g	g)		
SHUCK NESISLAHU	e	Operating extremes:	100 m/s <sup>2</sup> (10G)			
Mechanical Life     10,000,000 operations       Electrical Life     200,000 operations (220V AC, 5A)       Operating Temperature <sup>3</sup> -25 to +40°C (no freezing)		10,000,000 operations	3			
		zing)				
Operating Humidity 5 to 85% RH (no condensation)						
Weight (approx.)	(Standard type)	RR2P: 90g, RR3PA: 96	g, RR1BA/RR2BA/F	R3B: 82g		

## **Coil Ratings**

		Rated Current (mA) ±15% (at 20°C)		Coil Resistance (Ω)	Operati	ting Characteristics (values at 20°C)			
Rated Vo	oltage (V)	50 Hz	60 Hz	$\pm 10\%$ (at 20°C)	Maximum Continuous Applied Voltage	Pickup Voltage	Dropout Voltage	Con	
	6	490	420	4.9				Contactors	
	12	245	245 210 18			ors			
AC (50/60 Hz)	24	121	105	79	110%	80% maximum 3	30% minimum		
	110	27	23	1,680			30% minimum		
	120	24	20.5 2,100						
	240	12.1	10.5	8,330					_
	6	24	40	25				Terminal	
	12	120		100	110%	80% maximum	10% minimum	inal	
DC	24	6	60					Blocks	
	48	3	0	1,600				ks	
	110	1	3	8,460					

# **Relays & Sockets**

## **Contact Ratings**

TÜV Ratings Voltage 240V AC

30V DC

	Ν	Aaximum Conta	ict Capacity			
Continuous	Allowable Co	ontact Power	Rated Load			
Current	Resistive Load	Inductive Load	Voltage (V)	Res. Load	Ind. Load	
			110 AC	10A	7.5A	
10A	1650VA AC 300W DC	1100VA AC 150W DC	220 AC	7.5A	5A	
	00011 20		30 DC	10A	5A	
Note: Inductive load for the rated load — $\cos \varphi = 0.3$ , L/R = 7 ms						

AC: cos ø = 1.0, DC: L/R = 0 ms

#### **UL Ratings**

OF Hutings			
Voltage	Resistive	General use	Horse Power Rating
240V AC	10A	7A	1/3 HP
120V AC	10A	7.5A	1/4 HP
30V DC	10A	7A	_

## **CSA Ratings**

Voltage	Resistive	General use
240V AC	10A	7A
120V AC	10A	7.5A
100V DC	_	0.5A
30V DC	10A	7.5A

## **Socket Specifications**

10A

10A

	Relays	Terminal	Electrical Rating	Wire Size	Torque
	SR2P-05	M3 screw with captive wire clamp	300V, 10A	Maximum 2 - #12 AWG	9 - 11.5in•lbs
	SR2P-05C	M3 screw with captive wire clamp, fingersafe	300V, 10A	Maximum 2 - #12 AWG	9 - 11.5in•lbs
	SR2P-06	M3 screw with captive wire clamp	300V, 10A	Maximum 2 - #12 AWG	9 - 11.5in•lbs
DIN Rail Sockets	SR3P-05	M3 screw with captive wire clamp	300V, 10A	Maximum 2 - #12 AWG	9 - 11.5in•lbs
OUCKOLS	SR3P-05C	M3 screw with captive wire clamp, fingersafe	300V, 10A	Maximum 2 - #12 AWG	9 - 11.5in•lbs
	SR3P-06	M3 screw with captive wire clamp	300V, 10A	Maximum 2 - #12 AWG	9 - 11.5in•lbs
	SR3B-05	M3 screw with captive wire clamp	300V, 15A (10A)* (*CSA rating)	Maximum 2 - #12 AWG	9 - 11.5in•lbs
Through	SR2P-51	Solder	300V, 10A	—	—
Panel Mount	SR3P-51	Solder	300V, 10A	—	_
Sockets	SR3B-51	Solder	300V, 10A	—	—

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Switches & Pilot Lights

Signaling Lights

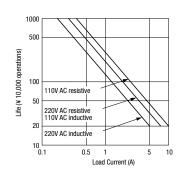
Relays & Sockets

Timers

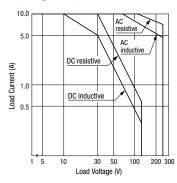
## **Characteristics (Reference Data)**

**Electrical Life Curves** 

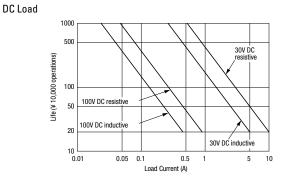




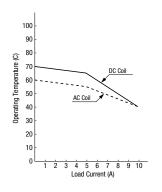
#### **Maximum Switching Capacity**

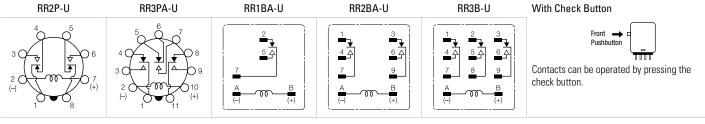


#### Internal Connection (View from Bottom) **Standard Type**

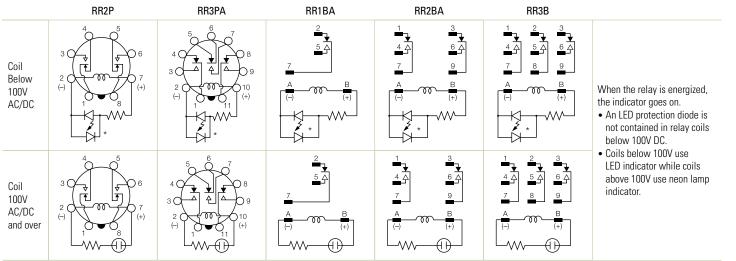


#### **Continuous Load Current vs. Operating Temperature Curve** (Standard Type, With Check Button, and Side Flange Type)





## With Indicator (-UL type)

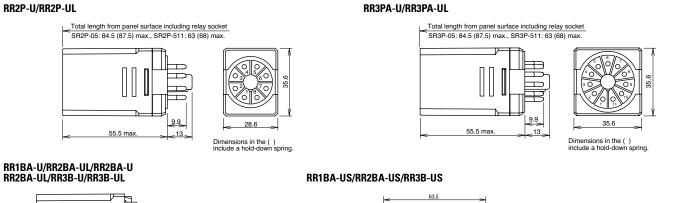




## **Relays & Sockets**

## **Dimensions (mm)**

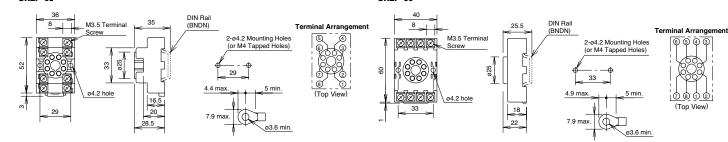
#### RR3PA-U/RR3PA-UL

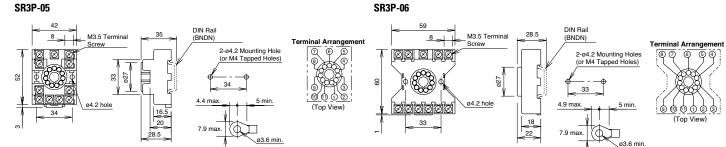


Contactors

## **Standard DIN Rail Mount Sockets**

# SR2P-05





**Circuit Breakers** 

Terminal Blocks



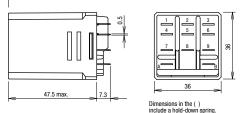
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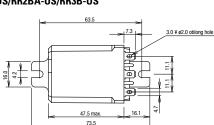
Switches & Pilot Lights

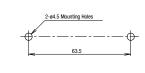
Signaling Lights

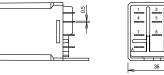
3.0 ¥ ø2.0 oblong hole

Total length from panel surface including relay socket SR3B-05: 73 (76) max., SR3B-51: 56 (60) max





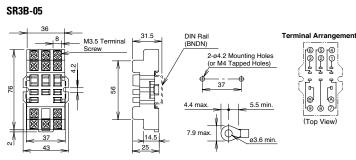




SR2P-06

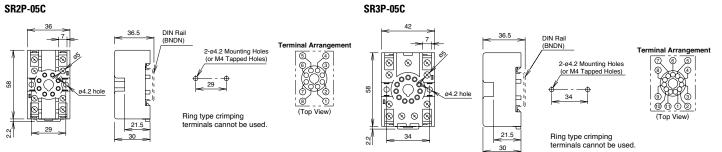
SR3P-06

## **Standard DIN Rail Mount Sockets**



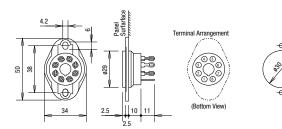
#### **Finger-safe DIN Rail Mount Sockets**

SR2P-05C

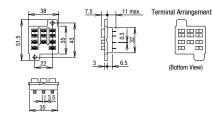


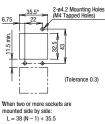
## **Through Panel Mount Socket**

SR2P-51



#### SR3B-51

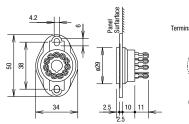




2-ø3.5 Mounting Holes (or M3 Tapped Holes)

N: No. of sockets mounted

SR3P-51



Terminal Arrangement (Bottom View)

2-ø3.5 Mounting Holes (or M3 Tapped Holes) 00

Switches & Pilot Lights

Signaling Lights

**Relays & Sockets** 

IDEC 889

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