RR Series Power Relays

Key features:

- 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.









Part Number Selection

	Part	Number		
Contact	Model	Pin Terminal	Blade Terminal*	Coil Voltage Code (Standard Stock Items in Bold)
SPDT	Standard		RR1BA-U □	
TO THE	With Indicator		RR1BA-UL □	
The state of	With Check Button	_	RR1BA-UC □	
-	With Indicator and Check Button		RR1BA-ULC □	
-	Side Flange Model		RR1BA-US □	
DPDT	Standard	RR2P-U □	RR2BA-U □	
The state of the s	With Indicator	RR2P-UL □	RR2BA-UL □	AC6V, AC12V, AC24V, AC110V, AC120V ,
	With Check Button	RR2P-UC □	RR2BA-UC □	AC240V,
	With Indicator and Check Button	RR2P-ULC □	RR2BA-ULC □	DC6V, DC12V, DC24V , DC48V, DC110V
	Side Flange Model	_	RR2BA-US □	
3PDT	Standard	RR3PA-U □	RR3B-U □	
	With Indicator	RR3PA-UL □	RR3B-UL □	
11 25 20	With Check Button	RR3PA-UC □	RR3B-UC □	
THE REAL PROPERTY.	With Indicator and Check Button	RR3PA-ULC □	RR3B-ULC □	
.140. 10	Side Flange Model	_	RR3B-US □	



*Blade type not TUV tested or CE marked. Side flange model mounts directly to panel with no socket required.

Ordering Information

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

(example) RR3B-U

RR3B-U AC120V
Part No.

---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









Hold Down Springs & Clips

Appearance	Description	Relay	For DIN Mount Socket	For Through Panel & PCB Mount Socket
^		RR2P	SR2B-02F1	SR3P-01F1
<	Pullover Wire Spring	RR3PA	SR3B-02F1	3035-0171
,		RR1BA, RR2BA, RR3B	SR3B-02F1	SR3B-02F1
Le	Leaf Spring (side latch)	RR2P, RR3PA	SFA-203	_

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	A STATE OF THE PARTY OF THE PAR	DIN rail	BNL5	9.1 mm wide.
Replacement Hold-Down Spring Anchor	C	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
	Pa .	Chair clip for sockets SR2P-05(C), SR3P-05(C)	Y703-102	spring. 2 pieces included with each socket.



Specifications

Contact Material		Silver			
Contact Resistan	ce ¹	30 mΩ maximum			
Minimum Applica	ible Load	1V DC, 10 mA			
Operating Time	2	25 ms maximum	25 ms maximum		
Release Time ²		25 ms maximum			
Power Consumpt	ion (approx.)	AC: 3 VA (50 Hz), 2.5 V DC: 1.5W	A (60 Hz)		
Insulation Resista	ance	100 MΩ minimum (500	V DC megger)		
		Between live and dead	l parts:	1500V AC, 1 minute	
	Pin Terminal	Between contact and o	coil:	1500V AC, 1 minute	
	Pin Terminal	Between contacts of d	ifferent poles:	1500V AC, 1 minute	
Dielectric		Between contacts of the	ne same pole:	1000V AC, 1 minute	
Strength	Blade Terminal	Between live and dead parts:		2000V AC, 1 minute	
		Between contact and coil:		2000V AC, 1 minute	
		Between contacts of different poles:		2000V AC, 1 minute	
		Between contacts of the same pole:		1000V AC, 1 minute	
Onesating Frague		Electrical:	al: 1800 operations/h maximum		
Operating Freque	ency	Mechanical:	18,000 operation	s/h maximum	
Vibration Resista		Damage limits:	10 to 55 Hz, amp	litude 0.5 mm	
VIDI ation nesista	nce	Operating extremes:	10 to 55 Hz, amp	litude 0.5 mm	
Shock Resistance	_	Damage limits:	1000 m/s ² (100g)		
Shock nesistance	ŧ	Operating extremes:	100 m/s ² (10G)		
Mechanical Life		10,000,000 operations			
Electrical Life		200,000 operations (22	20V AC, 5A)		
Operating Temperature ³		-25 to +40°C (no freezing)			
Operating Humidity		5 to 85% RH (no condensation)			
Weight (approx.) (Standard type)		RR2P: 90g, RR3PA: 96g, RR1BA/RR2BA/RR3B: 82g			



- Measured using 5V DC, 1A voltage drop method
 Measured at the rated voltage (at 20°C), excluding contact bouncing
- For use under different temperature conditions, refer to Continuous Load Current vs. Operating Temperature Curve.

Coil Ratings

		Rated Current (m.	A) ±15% (at 20°C)	Coil Resistance (Ω)	Operating Characteristics (values at 20°C)		
Rated Vo	oltage (V)	50 Hz	60 Hz	±10% (at 20°C)	Maximum Continuous Applied Voltage	Pickup Voltage	Dropout Voltage
	6	490	420	4.9	110%		
	12	245	210	18		80% maximum	
AC	24	121	105	79			30% minimum
(50/60 Hz)	110	27	23	1,680			30% IIIIIIIIIIIII
	120	24	20.5	2,100			
	240	12.1	10.5	8,330			
	6	240		25			
	12	12	20	100			
DC	24	6	60		110%	80% maximum	10% minimum
	48	3	0	1,600			
	110	1	3	8,460			

Contact Ratings

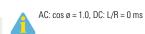
Maximum Contact Capacity						
Continuous	Allowable Co	ontact Power	Rated Load			
Current	Resistive Load	Inductive Load	Voltage (V)	Res. Load	Ind. Load	
	1650VA AC 300W DC	1100VA AC 150W DC	110 AC	10A	7.5A	
10A			220 AC	7.5A	5A	
			30 DC	10A	5A	



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

TÜV Ratings

Voltage	
240V AC	10A
30V DC	10A



UL Ratings

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

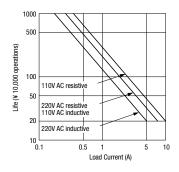
	Relays	Terminal	Electrical Rating	Wire Size	Torque
	SR2P-05	M3 screw with captive wire clamp	300V, 10A	Maximum 2 - #12 AWG	9 - 11.5in • lbs
	SR2P-05C	M3 screw with captive wire clamp, fingersafe	300V, 10A	Maximum 2 - #12 AWG	9 - 11.5in • lbs
	SR2P-06	M3 screw with captive wire clamp	300V, 10A	Maximum 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
OUCKCIS	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	_	_



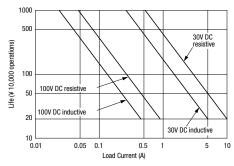
Characteristics (Reference Data)

Electrical Life Curves

AC Load

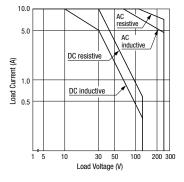


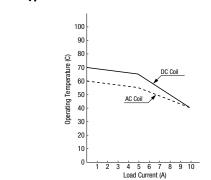
DC Load



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

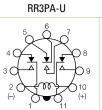
Maximum Switching Capacity

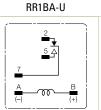


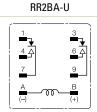


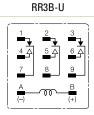
Internal Connection (View from Bottom) Standard Type

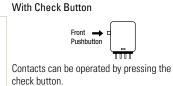
RR2P-U



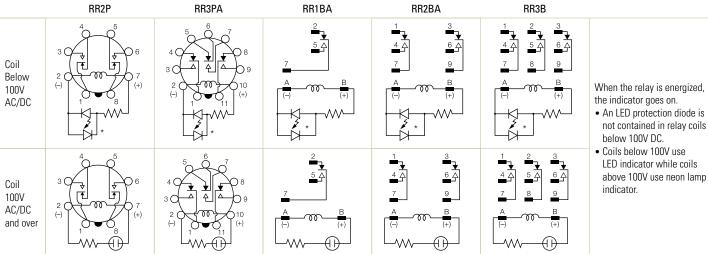








With Indicator (-UL type)



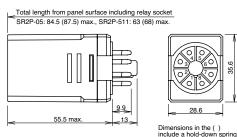
LED indicator while coils above 100V use neon lamp Signaling Lights

Timers

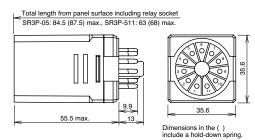
888

Dimensions (mm)

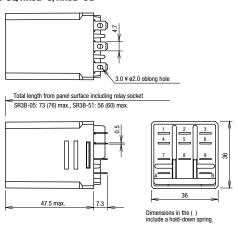
RR2P-U/RR2P-UL



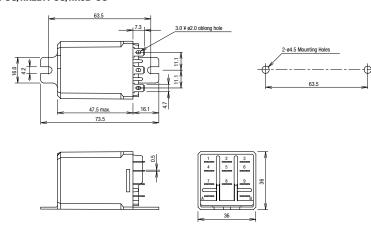
RR3PA-U/RR3PA-UL



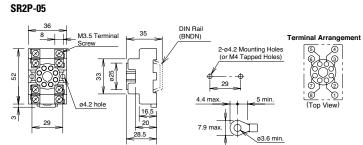
RR1BA-U/RR2BA-UL/RR2BA-U RR2BA-UL/RR3B-U/RR3B-UL



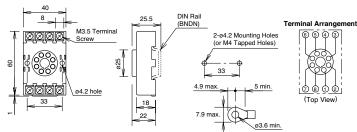
RR1BA-US/RR2BA-US/RR3B-US



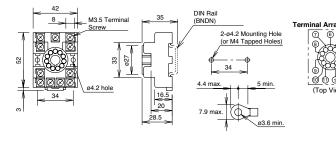
Standard DIN Rail Mount Sockets



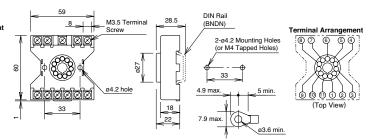




SR3P-05



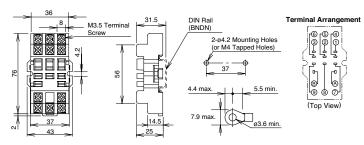
SR3P-06





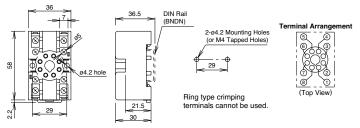
Standard DIN Rail Mount Sockets

SR3B-05



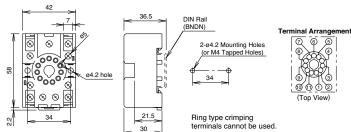
Finger-safe DIN Rail Mount Sockets

SR2P-05C



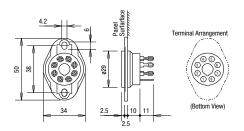
SR3P-05C

Relays & Sockets

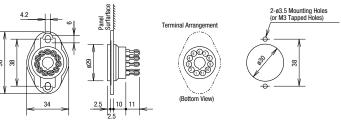


Through Panel Mount Socket

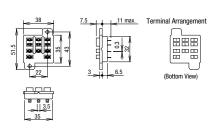
SR2P-51

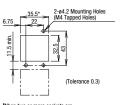


SR3P-51 2-ø3.5 Mounting Holes (or M3 Tapped Holes)



SR3B-51





When two or more sockets are mounted side by side: $L=38\;(N-1)+35.5$ N: No. of sockets mounted

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for General Purpose Relays category:

Click to view products by Idec manufacturer:

Other Similar products are found below:

PCN-105D3MH,000 59641F200 5JO-1000CD-SIL LY1SAC110120 5X827E 5X837F 5X840F 5X842F 5X848E LY2N-AC120 LY2S-AC220/240 LY2-US-AC120 LY3-US-AC120 LY4F-UA-DC12 LY4F-UA-DC24 LY4F-US-AC120 LY4F-US-AC240 LY4F-US-DC24 LY4F-VD-AC110 LYQ20DC12 M115C60 M115N010 M115N0150 6031007G 603-12D 61211T0B4 61212T400 61222Q400 61243B600 61243C500 61243Q400 61311BOA2 61311BOA6 61311BOA8 61311COA2 61311COA1 61311COA6 61311F0A2 61311QOA1 61311QOA4 61311T0B6 61311TOA6 61311TOA7 61311TOB3 61311TOB4 61311U0A6 61312Q600 61312T400 61312T600 61313U200