

## Specifications

Contact Material	Silver		
Contact Resistance <sup>1</sup>	30 mΩ maximum		
Minimum Applicable Load	1V DC, 10 mA		
Operating Time <sup>2</sup>	25 ms maximum		
Release Time <sup>2</sup>	25 ms maximum		
Power Consumption (approx.)	AC: 3 VA (50 Hz), 2.5 VA (60 Hz) DC: 1.5W		
Insulation Resistance	100 MΩ minimum (500V DC megger)		
Dielectric Strength	Pin Terminal	Between live and dead parts:	1500V AC, 1 minute
		Between contact and coil:	1500V AC, 1 minute
		Between contacts of different poles:	1500V AC, 1 minute
		Between contacts of the same pole:	1000V AC, 1 minute
	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
Operating Frequency	Electrical:	1800 operations/h maximum	
	Mechanical:	18,000 operations/h maximum	
Vibration Resistance	Damage limits:	10 to 55 Hz, amplitude 0.5 mm	
	Operating extremes:	10 to 55 Hz, amplitude 0.5 mm	
Shock Resistance	Damage limits:	1000 m/s <sup>2</sup> (100g)	
	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)		
Operating Humidity	5 to 85% RH (no condensation)		
Weight (approx.) (Standard type)	RR2P: 90g, RR3PA: 96g, RR1BA/RR2BA/RR3B: 82g		




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

## Coil Ratings

Rated Voltage (V)	Rated Current (mA) ±15% (at 20°C)		Coil Resistance (Ω) ±10% (at 20°C)	Operating Characteristics (values at 20°C)		
	50 Hz	60 Hz		Maximum Continuous Applied Voltage	Pickup Voltage	Dropout Voltage
AC (50/60 Hz)	6	490	420	110%	80% maximum	30% minimum
	12	245	210			
	24	121	105			
	110	27	23			
	120	24	20.5			
	240	12.1	10.5			
DC	6	240		110%	80% maximum	10% minimum
	12	120				
	24	60				
	48	30				
	110	13				


**Contact Ratings**

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

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

**TÜV Ratings**

Voltage	
240V AC	10A
30V DC	10A

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

**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
DIN Rail Sockets	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
	SR3P-05	M3 screw with captive wire clamp	300V, 10A	Maximum 2 - #12 AWG	9 - 11.5in•lbs
	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 Panel Mount Sockets	SR2P-51	Solder	300V, 10A	—	—
	SR3P-51	Solder	300V, 10A	—	—
	SR3B-51	Solder	300V, 10A	—	—