contact with 5 A capability • 4PDT has a gold-plated

Power Relay

FEATURES

silver contact with 3 A capability

• Small package design DPDT has a fine silver

General Purpose

- High dielectric strength (1,800 Vac)
- High reliability and long life
- Ultra-high sensitivity with quick response time (20 ms max.)
- Options include LED indicator, diode protection, and LED indicator/diode protection
- UL listed, CE certified, CSA certified

TYPICAL APPLICATIONS

- Control panels
- Elevator panels
- Machine tools
- Test equipment

WARNING

PERSONAL INJURY

DO NOT USE these products as safety or emergency stop devices or in any other application where failure of the product could result in personal injury.

Failure to comply with these instructions could result in death or serious injury.

SZR-MY Series general-purpose power relays are designed for a wide range of applications including power as well as logic control for factory machines and control panels.

SZR-MY Series relays have a small package design for multiple application needs. Relays are available in two configurations: DPDT with a 5A load and 4PDT with a 3 A load.

One standard and three options are available: LED indicator, internal surge protection diode, and LED indicator/diode protection. Honeywell's global sales and distribution channels ensure a rapid response and excellent customer service.

WARNING

MISUSE OF DOCUMENTATION

- The information presented in this product sheet is for reference only. Do not use this document as a product installation guide.
- Complete installation, operation, and maintenance information is provided • in the instructions supplied with each product.

Failure to comply with these instructions could result in death or serious injury.

S7R-MY Series

Honeywell





General Purpose Power Relays

SZR-MY Series

RELAY MODEL SELECTION GUIDE

Туре	Terminal	Contact	Catalog Listing
Standard	Dlug in/Colder	DPDT	SZR-MY2-1
Standard	Flug-III/Solder	4PDT	SZR-MY4-1
	DCD	DPDT	SZR-MY2-1P
	FCB	4PDT	SZR-MY4-1P
LED Indicator	Plug-in/Solder	DPDT	SZR-MY2-N1
		4PDT	SZR-MY4-N1
DIODE surge suppression		DPDT	SZR-MY2-D1
		4PDT	SZR-MY4-D1
LED indicator + surge suppression		DPDT	SZR-MY2-X1
		4PDT	SZR-MY4-X1

SOCKETS - REQUIRED ACCESSORIES

	Din-rail Mounting	Solder Terminal	PCB Terminal
Relay Contact			
DPDT For use with SZR-MY2-1, -N1, - D1, -X1	SZX-SMF-08N	SZX-SMB-08	SZX-SMB-08P
4PDT For use with SZR-MY4-1, -N1, - D1, -X1	SZX-SMF-14N	SZX-SMB-14	SZX-SMB-14P

Power Relays

CONTACT RATINGS

Туре	DP	DT	4PDT		
Load	Resistive Load (p.f. = 1)	Inductive load	Resistive Load (p.f. = 1)	Inductive load	
Ratings		(p.f. = 0.4, L/R = 7 ms)		(p.f. = 0.4, L/R = 7 ms)	
Rated load	220 Vac, 5A	220 Vac, 2A	220 Vac, 3A	220 Vac, 0.8 A	
	24 Vdc, 5A	24 Vdc, 2A	24 Vdc, 3A	24 Vdc, 1.5 A	
Carry current	5	A	3A		
Max. operating	250 Vac, 125 Vdc		250 Vac, 125 Vdc		
voltage					
Max. operating	5 A		3 A		
current					
Max. switching	1,100 VA, 120 W	440 VA, 48 W	660 VA, 72 W	176 VA, 16 W	
capacity					
Min. permissible	1 mA, 5 Vdc		1 mA, 1 Vdc		
load					

COIL RATINGS

		Rated Current (mA)			Coil Inductance (H)					
	Rated Voltage (V)	50 Hz	60 Hz	Coil resistance (Ω)	Armature OFF	Armature ON	Pick-up Voltage (V)	Dropout Voltage (V)	Maximum Voltage (V)	Power Consumption (W)
	6	214.1	183	12.2	0.04	0.08				Approx.
	12	106.5	91	46	0.17	0.33				1.0 W to 1.2 W
	24	53.8	46	180	0.69	1.3	Max.	Min.		(60 Hz)
AC	50	25.7	22	788	3.22	5.66	75 %	30%	110%	
	100/110	11.7/12.9	10/11	3,750	14.54	24.6				Approx
	110/120	9.9/10.8	8.4/9.2	4,430	19.2	32.1				0.9 W to 1.1 W
	200/220	6.2/6.8	5.3/5.8	12,950	54.75	94.07				(60 Hz)
	220/240	4.8/5.3	4.2/4.6	18,790	83.5	136.4				
	6	150)	40	0.17	0.33				
	12	75		160	0.73	1.37	Max.	Min.		Approx.
DC	24	36.	9	650	3.2	5.72	75%	10%	110%	0.9 W
	48	18.	5	2,600	10.6	21.0]			
	100/110	9.1/	10	11,000	45.6	86.2				

Note 1: The rated current and coil resistance are measured at a coil temperature of 23 °C [73.4 °F] with tolerances of +15%, -20% for AC rated current and ± 15% for DC coil resistance.

Note 2: The rated current of N1 and X1 types is 4 mA higher than the value in the table above.

Power Relays

SPECIFICATIONS

Contact material		Silver		
Contact resistance		Max. 50 MOhm		
Operate time		Max. 20 ms		
Release time		Max. 20 ms		
Operating	Mechanical	18,000 operations per hour		
frequency	Electrical	1,800 operations per hour		
Insulation resistance		Min. 100 Mw at 500 Vdc		
Dielectric withstand voltage		1,800 Vac 50 Hz/60 Hz for one minute between non-continuous current		
		carrying terminals and between coil thermals and contact terminals		
Vibration	Mechanical durability	10 Hz to 55 Hz at double amplitude of 1.0 mm		
resistance	Malfunction durability	10 Hz to 55 Hz at double amplitude of 1.0 mm		
Shock resistance Mechanical durability		1,000 m/s² (approx. 100 g)		
	Malfunction durability	200 m/s ² (approx. 20 g)		
Service life Mechanical		AC: Min. 50 million operations (at operating frequency of 18,000 operations/hour)		
		DC: Min. 100 million operations (at operating frequency of 18,000 operations/hour)		
	Electrical	DPDT: Min. 500,000 operations (at operating frequency of 1,800 operations/hour)		
		4PDT: Min. 200,000 operations (at operating frequency of 1,800 operations/hour)		
Weight		Approximately 35 g		

Note 1: The data shown above are of initial value

CHARACTERISTIC DATA



Power Relays

SZR-MY Series



General Purpose Relay

SZR-MY Series

Power Relays

FIGURE 5. DIMENSION, CIRCUIT DIAGRAM, TERMINAL ARRANGEMENT, AND MOUNTING HOLE FOR SZR-MY4-1, SZR-MY4-N1, SZR-MY4-D1, and SZR-MY4-X1



FIGURE 6. CIRCUIT DRAWING FOR SZR-MY2- and SZR-MY4-

