Socket Hold-down Clip Pairing

Relay type	Poles	Front-connecting sockets (rail-/screw-mounted)		Back-connecting sockets			
				Solder/wire-wrap terminals		PCB terminals	
		Socket	Clip	Socket	Clip	Socket	Clip
Standard, bifurcated contacts, operation indicator, built-in diode, high-capacity, high-sensitivity, or high-humidity	1, 2	PYF08A-N, PYF08A-E, PYF08A	PYC-A1	PY08(QN)	PYC-P	PY08(QN)	PYC-P
	3	PYF11A		PY11(QN)		PY11(QN)	
	4	PYF14A-N, PYF14A-E, PYF14A		PY14(QN)		PY14(QN)	
MY2N-D4	4	PYF14A-N, PYF14A-E, PYF14A	Y92H-3	PY14(QN)	PYC-1	PY08(QN)	PYC-1
Test button	1, 2	PYF08A-N, PYF08A-E, PYF08A	PYC-A1	PY08(QN)	PYC-P2	PY08(QN)	PYC-P2
	3	PYF11A		PY11(QN)		PY11(QN)	
	4	PYF14A-N, PYF14A-E, PYF14A		PY14(QN)		PY14(QN)	
CR circuit	1, 2	PYF08A-N, PYF08A-E, PYF08A	Y92H-3	PY08(QN)	PYC-1	PY08(QN)	PYC-1
	3	PYF11A		PY11(QN)		PY11(QN)	
	4	PYF14A-N, PYF14A-E, PYF14A		PY14(QN)		PY14(QN)	

Specifications

■ Coil Ratings

Rated voltage		Rated current		Coil resistance	Inductance (reference value)		Must operate	Must release	Max. voltage	Power consum. (Approx.)
		50 Hz	60 Hz		Arm. OFF	Arm. ON	% of rated voltage			
AC	6 V	214.1 mA	183 mA	12.2 Ω	0.04 H	0.08 H	80% max.	30% min.	110%	1.0 to 1.2 VA (60 Hz)
	12 V	106.5 mA	91 mA	46 Ω	0.17 H	0.33 H				
	24 V	53.8 mA	46 mA	180 Ω	0.69 H	1.30 H				
	50 V	25.7 mA	22 mA	788 Ω	3.22 H	5.66 H				
	100/110 V	11.7/12.9 mA	10/11 mA	3,750 Ω	14.54 H	24.6 H				0.9 to 1.1 VA (60 Hz)
	110/120 V	9.9/10.8 mA	8.4/9.2 mA	4,430 Ω	19.20 H	32.1 H				
	200/220 V	6.2/6.8 mA	5.3/5.8 mA	12,950 Ω	54.75 H	94.07 H				
	220/240 V	4.8/5.3 mA	4.2/4.6 mA	18,790 Ω	83.50 H	136.40 H				
DC	6 V	150 mA		40 Ω	0.17 H	0.33 H		10% min.		0.9 W
	12 V	75 mA		160 Ω	0.73 H	1.37 H				
	24 V	36.9 mA		650 Ω	3.20 H	5.72 H				
	48 V	18.5 mA		2,600 Ω	10.60 H	21.00 H				
	100/110 V	9.1/10 mA		11,000 Ω	45.60 H	86.20 H				

Note: See notes under next table on next page.

High-sensitivity Relays

Power supply ratings					Input ratings			
Voltage	Current	Coil resistance	Max. voltage*	Power consum.	Input voltage	Must operate	Must release	Power consum.
					% of rated voltage			
24 VDC	36.9 mA	650 W	110%	Approx. 900 mW	2 to 12 V	2 V max.	1 V min.	0.5 to 52 mW

Note: 1. The rated current and coil resistance are measured at a coil temperature of 23°C with tolerances of +15%/–20% for rated currents and ±15% for DC coil resistance.

2. Performance characteristic data are measured at a coil temperatures of 23°C.

3. The must operate and must release voltages for High-sensitivity Relays was measured at the rated power supply voltage.

4. AC coil resistance and impedance are provided as reference values (at 60 Hz).

5. Power consumption drop was measured for the above data. When driving transistors, check leakage current and connect a bleeder resistor if required.

■ Contact Ratings

Item	Single-, double- or three-pole		Four-pole and High-sensitivity		High-capacity	
	Resistive load (cosf = 1)	Inductive load (cosf=0.4, L/R=7 ms)	Resistive load (cosf = 1)	Inductive load (cosf=0.4, L/R=7 ms)	Resistive load (cosf = 1)	Inductive load (cosf=0.4, L/R=7 ms)
Rated load	5 A, 220 VAC 5 A, 24 VDC	2 A, 220 VAC 2 A, 24 VDC	3 A, 220 VAC 3 A, 24 VDC	0.8 A, 220 VAC) 1.5 A, 24 VDC	7 A, 220 VAC 7 A, 24 VDC	3.5 A, 220 VAC 3.5 A, 24 VDC
Carry current	5 A		3 A		7 A	
Max. switching voltage	250 VAC 125 VDC		250 VAC 125 VDC		250 VAC 125 VDC	
Max. switching current	5 A	5 A	3 A	3 A	7 A	7 A
Max. switching capacity	1,100 VA 120 W	440 VA 48 W	660 VA 72 W	176 VA 36 W	1,540 VA 168 W	770 VA 84 W
Min. permissible load*	Standard type: 100 mA, 5 VDC Bifurcated type: 100 μA, 1 VDC		Standard and high sensitivity types: 1 mA, 1 VDC Bifurcated type: 100 μA, 1 VDC		——	

***Note:** P level: λ_{60} = 0.1 x 10^{-6}/operation, reference value

■ Characteristics

Item	All relays but High-sensitivity Relays	High-sensitivity Relays
Contact resistance	50 mΩ max.	
Operate time	20 ms max.	
Release time	20 ms max.	
Max. operating frequency	Mechanical: 18,000 operations/hr Electrical: 1,800 operations/hr (under rated load)	
Insulation resistance	1,000 MΩ min. (at 500 VDC)	
Dielectric withstand voltage	2,000 VAC, 50/60 Hz for 1 min (1,000 VAC between contacts of same polarity)	1,500 VAC, 50/60 Hz for 1 min (1,000 VAC between contacts of same polarity)
Vibration resistance	Destruction: 10 to 55 Hz, 1.0-mm double amplitude Malfunction: 10 to 55 Hz, 1.0-mm double amplitude	
Shock resistance	Destruction: 1,000 m/s^2 (approx. 100G) Malfunction: 200 m/s^2 (approx. 20G)	
Life expectancy	See following table.	
Ambient operating temperature*	Single- and double-pole standard, bifurcated-contact, test-button, and high-humidity relays: –55°C to 70°C (with no icing) All other relays: –55°C to 60°C (with no icing)	
Ambient operating humidity	35% to 85%	
Weight	Approx. 85 g	

Note: The values given above are initial values.