# Accessories (Order Separately)

## **Connection Sockets**

Connecting method	Mounting method	Number of poles	Model		
			PTF-08-PU		
		1 or 2	PTF-08-PU-L		
		1 Of 2	PTF08A		
Front-mounting Sockets			PTF08A-E*1		
(PTF-□-PU, PTF□A)	Track or screw mounting	3	PTF11A		
			PTF-14-PU-L		
		4	PTF14A		
			PTF14A-E*1		
		1 or 2	PT08 *2		
	Solder terminals	Solder terminals 3 PT11*2	PT11 *2		
		4 PT14*2			
		1 or 2	PT08QN		
Back-mounting Sockets (PT□)	Wrapping terminals	3	PT11QN		
···-/		4	PT14QN		
		1 or 2	PT08-0		
	Relays with PCB Terminals	3	PT11-0		
		4	PT14-0		

\*1. The PTF A-E Relays have finger protection. Round terminals cannot be used. Use forked terminals. \*2. When ordering PT08, PT11, or PT14 sockets, please note that the minimum order quantity is 10 and orders are accepted in multiples of the minimum order.

### **Relay Hold-down Clips**

Application Item	Used wit	h Socket	Used with Socket mounting plate	For models with b	uilt-in CR circuits	
Appearance		Approx. 3	Approx. 2.5			
Model	PYC-A1	PYC-P	PYC-S	Y92H-3	PYC-1	
Minimum order (quantity)*	100 100		10	10	10	

\* Orders are accepted in multiples of the minimum order.

### **Socket Mounting Plates**

Applicable sockets	Number of sockets	Model
	1	PYP-1 *1
PT08 PT08QN	18	PYP-18 *2
	36	PYP-36 *2
PT11	1	PTP-1-3
PT11QN	12	PTP-12
PT14	1	PTP-1
PT14QN	10	PTP-10

**\*1.** When ordering PYP-1, please note that the minimum order quantity is 10 and orders are accepted in multiples of the minimum order. **\*2.** PYP-18 and PYP-36 can be cut to any required length.

# **Ratings and Specifications**

## **Ratings**

## **Standard Models with Built-in Operation Indicators**

**Operating Coil, Single-pole and Double-pole Models** 

	ltem	Rated cur	rent (mA)	Coil	Coil indu	ctance (H)	Must-operate	Must-release	Maximum	Power
Rated (V)	d voltage	50 Hz 60Hz		resistance (Ω)	Armature OFF	Armature ON	voltage (V)	voltage (V)	voltage (V)	consumption (VA, W)
	12	106.5	91	46	0.17	0.33	_	30% min.*2	110% of rated voltage	Approx. 1.0 to 1.2 (at 60 Hz)
	24	53.8	46	180	0.69	1.3				
	50	25.7	22	788	3.22	5.66				
AC	100/110	11.7/12.9	10/11	3,750	14.54	24.6				Approx. 0.9 to 1.1 (at 60 Hz)
	110/120	9.9/10.8	8.4/9.2	4,430	19.2	32.1				
	200/220	6.2/6.8	5.3/5.8	12,950	54.75	94.07	80% max.*1			
	220/240	4.8/5.3	4.2/4.6	18,790	83.5	136.4	80% max.**			
	6	15	150		0.16	0.33	-			
	12	75		160	0.73	1.37				
DC	24	36	.9	650	3.2	5.72		10% min.* <sup>2</sup>		Approx. 0.9
	48	18	.5	2,600	10.6	21.0				
	100/110	9.1	/10	11,000	45.6	86.2				

#### 3 poles

	Item Rated current (mA)		Item Rated current (mA) Coil Coil inducta		ctance (H)	ance (H) Must-operate		Maximum	Power	
Rated voltage (V)		ge 50 Hz 60Hz		resistance Armature (Ω) OFF		Armature ON	voltage (V)	Must-release voltage (V)	voltage (V)	consumption (VA, W)
	12	159	134	24	0.12	0.21	- - - 80% max.*1	30% min.* <sup>2</sup>	110% of rated	Approx. 1.6 to 2.0 (at 60 Hz)
AC	24	80	67	100	0.44	0.79				
AC	100/110	14.1/16	12.4/13.7	2,300	10.5	18.5				
	200/220	9.0/10.0	7.7/8.5	8,650	34.8	59.5				
	12	1	112		0.45	0.98	- 00 % max.**	10% min.*2	voltage	
DC	24	58.6		410	1.89	3.87				A
	48	28	3.2	1,700	8.53	13.9	1	10% 11111.**		Approx. 1.4
	100/110	12.7	12.7/13		29.6	54.3	1			

#### 4 poles

	ltem	Item Rated current (mA)		Coil Coil inductance (H		ctance (H)	Must-operate voltage (V)	Must-release voltage (V)	Maximum voltage (V)	Power consumption (VA, W)
Rated voltage (V)		50 Hz 60Hz		resistance (Ω)	Armature OFF	Armature ON				
	12	199	170	20	0.1	0.17	80% max.*1	30% min.* <sup>2</sup>	110% of rated	Approx. 1.95 to 2.5 (at 60 Hz)
AC	24	93.6	80	78	0.38	0.67				
AC	100/110	22.5/25.5	19/21.8	1,800	10.5	17.3				
	200/220	11.5/13.1	9.8/11.2	6,700	33.1	57.9				
	12	120		100	0.39	0.84	00% max.**	10% min.*2	voltage	A
DC	24	69		350	1.41	2.91				
	48	3	0	1,600	6.39	13.6	-	10 % 11111.**		Approx. 1.5
	100/110	15/1	15.9	6,900	32.0	63.7				

Note: 1. The rated current and coil resistance are measured at a coil temperature of 23°C with tolerances of +15%/–20% for the AC rated current and ±15% for the DC coil resistance.
2. The AC coil resistance and inductance values are reference values only. (at 60 Hz).
3. Operating characteristics were measured at a coil temperature of 23°C.
4. The maximum voltage capacity was measured at an ambient temperature of 23°C.
\*1. There is variation between products, but actual values are 80% max. To ensure operation, apply at least 80% of the rated value (at a coil temperature of +23° C).
\*2. The actual values are 30% min. for AC and 10% min. for DC. To ensure release, use a value that is lower than the specified value.