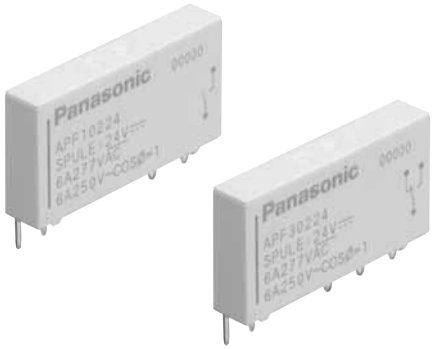
Compliant with European standards 1a/1c 6A Slim power relays

PF RELAYS (APF)



RoHS compliant

Protective construction: Sealed type

FEATURES

1. **High density mounting with 5 mm .197 inch width**
   Space saved with 5 mm .197 inch slim type with 28 mm 1.102 inch length. Allows high density mounting and use in compact devices.
2. **Satisfies reinforced insulation standard (EN/IEC 61810-1)**
3. **High switching capacity**
   Supports 6A 250 V AC nominal switching capacity (resistive load) and AC15 and DC13 (inductive load).
4. **1 Form A and 1 Form C contact arrangements with options for a variety of applications**
5. **4,000 V high breakdown voltage and 6,000 V high surge breakdown voltage**
   Controller protection against surges and noise with a breakdown voltage of 4,000 Vrms for 1 min. between contacts and coil, and 6,000 V surge breakdown voltage between contacts and coil.
6. **Resistance to heat and fire; EN60335-1, clause 30 (GWT) approved**
7. **Sealed construction allows automatic washing**
8. **Complies with all safety standards**
   UL/C-UL, VDE certified.
9. **High insulation resistance**
   Creepage distance between contact and coil terminal: Min. 8.0 mm .315 inch
   Clearance distance between contact and coil terminal: Min. 6.0 mm .236 inch

TYPICAL APPLICATIONS

1. **Interface relays for programmable controllers**
2. **Output relays for measuring equipment, timers, counters and temperature controllers**
3. **Industrial equipment, office equipment**
4. **Household appliances for Europe**

ORDERING INFORMATION

APF □ **0** □ □ □

Contact arrangement
1: 1 Form A
3: 1 Form C

Contact type
0: Single contact

Contact material
2: AgNi type
3: AgNi type/Au-plated

Nominal coil voltage (DC)
4H: 4.5 V 05: 5 V 06: 6 V 09: 9 V 12: 12 V 18: 18 V
24: 24 V 48: 48 V 60: 60 V

Notes: 1. Certified by UL/C-UL and VDE
2. $AgSnO_2$ type contact is available. Please contact us for details.
3. Bent pins type is available. Please contact us for details.

TYPES

Contact arrangement	Nominal coil voltage	Part No.
1 Form A (AgNi type)	4.5V DC	APF1024H
	5V DC	APF10205
	6V DC	APF10206
	9V DC	APF10209
	12V DC	APF10212
	18V DC	APF10218
	24V DC	APF10224
	48V DC	APF10248
	60V DC	APF10260
1 Form A (AgNi type/Au-plated)	4.5V DC	APF1034H
	5V DC	APF10305
	6V DC	APF10306
	9V DC	APF10309
	12V DC	APF10312
	18V DC	APF10318
	24V DC	APF10324
	48V DC	APF10348
	60V DC	APF10360

Contact arrangement	Nominal coil voltage	Part No.
1 Form C (AgNi type)	4.5V DC	APF3024H
	5V DC	APF30205
	6V DC	APF30206
	9V DC	APF30209
	12V DC	APF30212
	18V DC	APF30218
	24V DC	APF30224
	48V DC	APF30248
	60V DC	APF30260
1 Form C (AgNi type/Au-plated)	4.5V DC	APF3034H
	5V DC	APF30305
	6V DC	APF30306
	9V DC	APF30309
	12V DC	APF30312
	18V DC	APF30318
	24V DC	APF30324
	48V DC	APF30348
	60V DC	APF30360

Standard packing: Tube: 20 pcs.; Case: 1,000 pcs.

RATING

1. Coil data

Nominal coil voltage	Pick-up voltage (at 20°C 68°F)	Drop-out voltage (at 20°C 68°F)	Nominal operating current [±10%] (at 20°C 68°F)	Coil resistance [±10%] (at 20°C 68°F)	Nominal operating power	Max. applied voltage (at 20°C 68°F)
4.5V DC	Max. 70%V nominal voltage (Initial)	Min. 5%V nominal voltage (Initial)	37.8mA	119Ω	170mW	120%V of nominal voltage
5V DC			34.0mA	147Ω		
6V DC			28.3mA	212Ω		
9V DC			18.9mA	476Ω		
12V DC			14.2mA	847Ω		
18V DC			9.4mA	1,906Ω		
24V DC			7.1mA	3,388Ω		
48V DC			4.5mA	10,618Ω	217mW	
60V DC			2.9mA	20,570Ω	175mW	