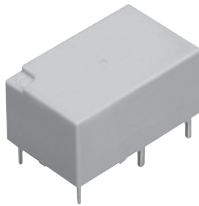




1a 10A, 1a1b/2a 8A small polarized power relays

DK RELAYS



Protective construction: Sealed type

FEATURES

- 1. Compact with high capacity**
High capacity switching in a small package: 1 Form A, 10 A 250 V AC; 1 Form A 1 Form B and 2 Form A, 8 A 250 V AC.
- 2. High sensitivity: 200 mW nominal operating power**
- 3. High breakdown voltage**
Independent coil and the contact structure improves breakdown voltage.

Between contact and coil	Between open contacts
4,000 Vrms for 1 min. 10,000 V surge breakdown voltage	1,000 Vrms for 1 min. 1,500 V surge breakdown voltage

Conforms with FCC Part 68

- 4. Latching types available**
- 5. Sealed construction allows automatic washing**
- 6. Sockets are available**
- 7. Complies with safety standards**
Complies with Japan Electrical Appliance and Material Safety Law requirements for operating 200 V power supply circuits, and complies with UL, CSA, and TÜV safety standards.

TYPICAL APPLICATIONS

- 1. Switching power supply**
- 2. Power switching for various OA equipment**
- 3. Control or driving relays for industrial machines (robotics, numerical control machines, etc.)**
- 4. Output relays for programmable logic controllers, temperature controllers, timers and so on**
- 5. Home appliances**

ORDERING INFORMATION

DK - - -

Contact arrangement

1a: 1 Form A

2a: 2 Form A

1a1b: 1 Form A 1 Form B

Operating function

Nil: Single side stable

L2: 2 coil latching

Nominal coil voltage (DC)

3, 5, 6, 9, 12, 24V

Contact material

F: 1 Form A (Au-flashed AgSnO₂ type)

Nil: 2 Form A, 1 Form A 1 Form B (Au-flashed AgNi type)

Note: VDE approved type is available.

TYPES

Contact arrangement	Nominal coil voltage	Single side stable	2 coil latching
		Part No.	Part No.
1 Form A	3V DC	DK1a-3V-F	DK1a-L2-3V-F
	5V DC	DK1a-5V-F	DK1a-L2-5V-F
	6V DC	DK1a-6V-F	DK1a-L2-6V-F
	9V DC	DK1a-9V-F	DK1a-L2-9V-F
	12V DC	DK1a-12V-F	DK1a-L2-12V-F
	24V DC	DK1a-24V-F	DK1a-L2-24V-F
1 Form A 1 Form B	3V DC	DK1a1b-3V	DK1a1b-L2-3V
	5V DC	DK1a1b-5V	DK1a1b-L2-5V
	6V DC	DK1a1b-6V	DK1a1b-L2-6V
	9V DC	DK1a1b-9V	DK1a1b-L2-9V
	12V DC	DK1a1b-12V	DK1a1b-L2-12V
	24V DC	DK1a1b-24V	DK1a1b-L2-24V
2 Form A	3V DC	DK2a-3V	DK2a-L2-3V
	5V DC	DK2a-5V	DK2a-L2-5V
	6V DC	DK2a-6V	DK2a-L2-6V
	9V DC	DK2a-9V	DK2a-L2-9V
	12V DC	DK2a-12V	DK2a-L2-12V
	24V DC	DK2a-24V	DK2a-L2-24V

Standard packing: Carton: 50 pcs.; Case: 500 pcs.

* Sockets available.

RATING

1.Coil data

- Operating characteristics such as 'Operate voltage' and 'Release voltage' are influenced by mounting conditions, ambient temperature, etc. Therefore, please use the relay within $\pm 5\%$ of rated coil voltage.
- 'Initial' means the condition of products at the time of delivery.

1) Single side stable type

Nominal coil voltage	Pick-up voltage (at 20°C 68°F)	Drop-out voltage (at 20°C 68°F)	Nominal operating current [$\pm 10\%$] (at 20°C 68°F)	Coil resistance [$\pm 10\%$] (at 20°C 68°F)	Nominal operating power	Max. applied voltage (at 20°C 68°F)
3V DC	70%V or less of nominal voltage (Initial)	10%V or more of nominal voltage (Initial)	66.6mA	45 Ω	200mW	130%V of nominal voltage
5V DC			40mA	125 Ω		
6V DC			33.3mA	180 Ω		
9V DC			22.2mA	405 Ω		
12V DC			16.6mA	720 Ω		
24V DC			8.3mA	2,880 Ω		

2) 2 coil latching type

Nominal coil voltage	Set voltage (at 20°C 68°F)	Reset voltage (at 20°C 68°F)	Nominal operating current [$\pm 10\%$] (at 20°C 68°F)		Coil resistance [$\pm 10\%$] (at 20°C 68°F)		Nominal operating power		Max. applied voltage (at 20°C 68°F)
			Set coil	Reset coil	Set coil	Reset coil	Set coil	Reset coil	
3V DC	70%V or less of nominal voltage (Initial)	70%V or less of nominal voltage (Initial)	66.6mA	66.6mA	45 Ω	45 Ω	200mW	200mW	130%V of nominal voltage
5V DC			40 mA	40 mA	125 Ω	125 Ω			
6V DC			33.3mA	33.3mA	180 Ω	180 Ω			
9V DC			22.2mA	22.2mA	405 Ω	405 Ω			
12V DC			16.6mA	16.6mA	720 Ω	720 Ω			
24V DC			8.3mA	8.3mA	2,880 Ω	2,880 Ω			