

Panasonic



Compliant with European standards 1a1b 16A/10A/8A polarized power relays

DE RELAYS

FEATURES

- 1. Conforms to European safety standards (VDE0700 and VDE0631)**
 Insulating distance between coil and contacts:
 Clearance Min. 8mm .315 inch
 Creepage distance Min. 8mm .315 inch
- 2. Extensive product line-up**
- 3. Surge voltage between contact and coil 12 kV**
- Low operating power**
 Nominal operating power at 200 mW
 (Single side stable, 2 coil latching)
- 4. Compact body saves space**
 Size: 12.5(W) × 25.0(L) × 12.5(H) mm
 .492(W) × .984(L) × .492(H) inch
- 5. UL/CSA, VDE approved**
 16A contact rating possible for 1 Form A and 1 Form A 1 Form B.

TYPICAL APPLICATIONS

- Temperature controller
- Automatic meter reading
- OA equipment
- FA equipment

ORDERING INFORMATION

DE - - V

Contact arrangement

- 1a: 1 Form A
- 2a: 2 Form A
- 1a1b: 1 Form A 1 Form B

Operating function

- Nil: Single side stable
- L: 1 coil latching
- L2: 2 coil latching

Coil voltage (V DC)

- 1.5, 3, 4.5, 5, 6, 9, 12, 24, 48* (*single side stable only)

Note: UL/CSA, VDE approved type is standard.

DE (ADE)

TYPES

Contact arrangement	Nominal coil voltage	Single side stable type	1 coil latching type	2 coil latching type
		Part No.	Part No.	Part No.
1 Form A	1.5V DC	DE1A-1,5V	DE1A-L-1,5V	DE1A-L2-1,5V
	3V DC	DE1A-3V	DE1A-L-3V	DE1A-L2-3V
	4.5V DC	DE1A-4,5V	DE1A-L-4,5V	DE1A-L2-4,5V
	5V DC	DE1A-5V	DE1A-L-5V	DE1A-L2-5V
	6V DC	DE1A-6V	DE1A-L-6V	DE1A-L2-6V
	9V DC	DE1A-9V	DE1A-L-9V	DE1A-L2-9V
	12V DC	DE1A-12V	DE1A-L-12V	DE1A-L2-12V
	24V DC	DE1A-24V	DE1A-L-24V	DE1A-L2-24V
1 Form A 1 Form B	48V DC	DE1A-48V	—	—
	1.5V DC	DE1A1B-1,5V	DE1A1B-L-1,5V	DE1A1B-L2-1,5V
	3V DC	DE1A1B-3V	DE1A1B-L-3V	DE1A1B-L2-3V
	4.5V DC	DE1A1B-4,5V	DE1A1B-L-4,5V	DE1A1B-L2-4,5V
	5V DC	DE1A1B-5V	DE1A1B-L-5V	DE1A1B-L2-5V
	6V DC	DE1A1B-6V	DE1A1B-L-6V	DE1A1B-L2-6V
	9V DC	DE1A1B-9V	DE1A1B-L-9V	DE1A1B-L2-9V
	12V DC	DE1A1B-12V	DE1A1B-L-12V	DE1A1B-L2-12V
2 Form A	24V DC	DE1A1B-24V	DE1A1B-L-24V	DE1A1B-L2-24V
	48V DC	DE1A1B-48V	—	—
	1.5V DC	DE2A-1,5V	DE2A-L-1,5V	DE2A-L2-1,5V
	3V DC	DE2A-3V	DE2A-L-3V	DE2A-L2-3V
	4.5V DC	DE2A-4,5V	DE2A-L-4,5V	DE2A-L2-4,5V
	5V DC	DE2A-5V	DE2A-L-5V	DE2A-L2-5V
	6V DC	DE2A-6V	DE2A-L-6V	DE2A-L2-6V
	9V DC	DE2A-9V	DE2A-L-9V	DE2A-L2-9V
2 Form A	12V DC	DE2A-12V	DE2A-L-12V	DE2A-L2-12V
	24V DC	DE2A-24V	DE2A-L-24V	DE2A-L2-24V
	48V DC	DE2A-48V	—	—

Standard packing: Tube package: 20 pcs.; Case: 500 pcs.

RATING

1. Coil data

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 [±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)
1.5V DC	70%V or less of nominal voltage (Initial)	10%V or more of nominal voltage (Initial)	132.7mA	11.3Ω	200mW	130%V of nominal voltage
3V DC			66.6mA	45Ω		
4.5V DC			44.5mA	101Ω		
5V DC			40mA	125Ω		
6V DC			33.3mA	180Ω		
9V DC			22.2mA	405Ω		
12V DC			16.6mA	720Ω		
24V DC			8.3mA	2,880Ω		
48V DC			4.2mA	11,520Ω		

2) 1 coil latching type

Nominal coil voltage	Set voltage (at 20°C 68°F)	Reset 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)
1.5V DC	70%V or less of nominal voltage (Initial)	70%V or less of nominal voltage (Initial)	66.6mA	22.5Ω	100mW	130%V of nominal voltage
3V DC			33.3mA	90Ω		
4.5V DC			22.3mA	202Ω		
5V DC			20mA	250Ω		
6V DC			16.7mA	360Ω		
9V DC			11.1mA	812Ω		
12V DC			8.3mA	1,440Ω		
24V DC			4.2mA	5,760Ω		