

DK series

■ Features

- Power relay specialized for controlling high-voltage equipment.
 - There are two types, direct mounting on case (panel or chassis) type and PCB mounting type.
 - For handling high-voltage, the contact circuit is equipped with a #250 tab terminal so that an insulated receptacle can be used.
- DK for type ○ Ideal for switching the capacity of high-voltage capacitors corresponding to 50Hz/60Hz power frequency of microwave ovens.
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- High insulation design
Between coil and contact: AC5000V 1min
- DKH for type Between open contact : AC5000V 1min
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- Compatible with maximum DC500V 30A cutoff
- DKH-MG for type ○ No mounting polarity on the contact side. (Compatible with charging/discharging.)

■ Model numbering system

DK or DKH - -

Rated coil voltage: Numeric part indication

DC (V): 12, 17, 18, 24

Coil type D: DC

Number of contact poles 1: 1 pole

Shape indication 1 O: PCB terminal

F: Tab terminal (coil terminal: #187 tab terminal, contact terminal: #250 tab terminal),
directly attached to panel or chassis

Contact configuration (M): Make contact

Shape indication 2 MG: With magnet (DKH type only)

■ Safety standards

Electrical Appliances and
Materials Safety Act

Conformable

■ Coil ratings

AC/DC	Item Voltage	Rated current (mA)	Coil resistance (Ω)	Operate voltage (V)	Release voltage (V)	Maximum voltage (V)	Hold voltage (V)	Power consumption (W)
DC	12	75	160	80% max.	10% min.	110%	※② 55% to 70% (DKH type only)	0.9 (Applied coil voltage 100%)
	17	51.5	330	※① 150% to 250% (Applied time 0.3 to 1s)				0.27 (Applied coil voltage 55%, DKH type only)
	18	50	360	DKH type only double voltage operation.				
	24	37.5	640					

- Notes: 1. Rated current and coil resistance are values at coil temperature of 20°C, tolerance is ±10%.
- 2. Operate voltage and release voltage are values at coil temperature of 20°C.
- 3. Maximum voltage is the maximum value of the allowable voltage fluctuation range of the relay coil operating power supply with the ambient temperature at 20°C.
- 4. For the DKH type, be sure to use the holding voltage of ※② after double voltage operation of ※①.
- 5. For the DKH type, please use a varistors to absorb surges from the coil.
Please note that if a diode is used, the release time will be longer and the performance will not be guaranteed.

※Barista selection guideline

Varistor voltage: 1.5 times or more of coil rated voltage.

Please note that setting the varistor voltage high will affect the surge absorption effect.