

# DK series

## ■ Ratings\*Performance

Specifications	Item	Performance			
		DK	DKH	DKH-MG	
Contact specification	Contact configuration	1a			
	Contact resistance (at DC6V 1A)	50mΩ max.		100mΩ max.	
	Contact material	Ag alloy			
Ratings	Rated load	Resistive load	AC3400V 0.6A	—	DC500V 30A
		Inverter load	—	AC200V 30A	—
	Max. switching capacity	Resistive load	2040VA	—	15 000W
		Inverter load	—	6000VA	—
	Max. switching voltage	AC4000V	AC200V	DC500V	
Max. switching current	0.6A	30A			
Electrical capability	Insulation resistance		100MΩ min. (at DC500V)		
	Dielectric strength	Between coil and contact	AC4000V 1 min	AC5000V 1 min	AC4000V 1 min
		Between open contact	AC4000V 1 min (PCB type: AC2900V 1 min)	AC5000V 1 min	AC2500V 1 min
	Impulse withstand voltage (between coil and contact)		10 000V min. (1.2 × 50 μ s)		
	Operate time (at rated voltage on, at 20°C)		25ms max. (excluding contact bounce time)		
	Release time (at rated voltage off, at 20°C)		25ms max. (excluding contact bounce time)		
Mechanical capability	Vibration resistance	Malfunction	10 to 55 to 10Hz (double amplitude 1.5mm)	10 to 55 to 10Hz (double amplitude 1.0mm)	
		Destruction	10 to 55 to 10Hz (double amplitude 1.5mm)		
	Shock resistance	Malfunction	100m/s <sup>2</sup>	80m/s <sup>2</sup>	
		Destruction	500m/s <sup>2</sup>		
Life	Mechanical endurance		500 000 times min. (at 180 times/min)	300 000 times min. (at 12 times/min)	
	Electrical endurance (at rated load)		10 000 times min. (at 20 times/min)	100 000 times min. (at 12 times/min)	10 000 times min. (at 6 times/min)
Conditions for operation	Ambient temperature		-20°C to +60°C (no freezing and condensing at low temperature)		-20°C to +85°C (no freezing and condensing at low temperature)
	Ambient humidity		5% to 85%RH	45% to 85%RH	
Mass			approx. 34g	approx. 48g	approx. 55g

● Notes: The above is the initial value.