

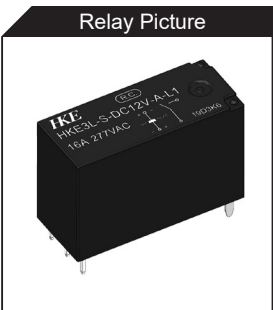


Features

- Magnetic Latching Relay
- Outline Dimension: 24.0×10.0×15.8mm
- 20A Magnetic latching relay
- High sensitivity 200mw
- Comply to IEC 60335-1:household and similar electrical appliances-safety
- Compliance to ROHS Directive
- Dielectric strength of 5000V between coil and contacts
- Main applications: Domestic appliances, Building control, Lighting control, Smart meter control

Safety Approval

US NO.E164730



ORDERING INFORMATION

HKE3L T - S - DC12V - A - L1					
Model	Contact Rating	Enclosure	Coil Voltage	Contact Form	Coil Type
	Blank-Standard 16A 277VAC T- 20A 250VAC/TV-10 250VAC	S - Plastic Sealed Type	DC3V,DC5V,DC6V,DC9V, DC12V,DC24V	A-1 Form A	L1 - Single coil L2 - Double coil

SPECIFICATION

CONTACT DATA			GENERAL DATA		
Contact Form		1 Form A			
Contact Material		Ag Alloy			
Contact Rating		HKE3L: 16A 277VAC HKE3LT: 20A 250VAC TV-10 250VAC			
Contact Resistance		Max.100mΩ(6VDC 1A)			
Load	Max. Switching Voltage	277VAC			
	Max. Switching Current	20A			
	Max. Switching Power	5000VA			
	Min. Switching Load	100mA 5VDC			
Life*3	Electrical	1×10 ⁵ (16A,frequency 1s:9s) 1×10 ⁵ (20A,frequency 1s:9s) 2.5×10 ⁴ (161A/250VAC)*1			
	Mechanical	1×10 ⁶ (180ops/min)			
Insulation Resistance		Min.1000MΩ 500VDC			
Dielectric Strength	Between open contacts	1,000VAC,50/60Hz,1min			
	Between coil and contacts	5,000VAC,50/60Hz,1min			
Operate Time*2		Max.15ms			
Reset Time *2		Max.15ms			
Operating Temperature		-40℃ to +85℃			
Humidity		5~85%RH, +40℃			
Shock	Endurance	1,000m/s ²			
Resistance	Misoperation	100m/s ²			
Vibration	Endurance	10~55Hz,1.5mm double amplitude			
Resistance	Misoperation	10~55Hz,1.5mm double amplitude			
Weight		Approximately 7g			

*1:TV-10 standard
 *2:Nominal voltage,Not including contact bounce time.
 *3:Only a few typical ratings are listed,Please contact us for more information.

SAFETY APPROVAL

File Number	Contact Form	Power Consumption	Coil Voltage	Contact Rating	Remarks
UL E164730	A	0.2W(L1)	3-24VDC	16A 250VAC/277VAC(GP)	Ambient Temperature: 85°C
	A	0.4W(L2)	3-24VDC	20A 250VAC/277VAC(GP)	Ambient Temperature: 85°C
	A		3-24VDC	TV-10 250VAC	Ambient Temperature: 40°C

Specifications subject to change without notice

ISO9001、IATF16949、ISO14001 Approved

COIL DATA

Ambient Temperature: 23°C

Single coil L1

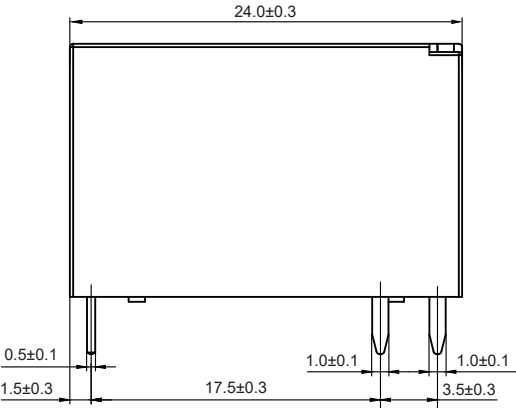
Model	Nominal Voltage VDC	Coil Resistance Ω +/-10%	Operate Voltage $\leq$ VDC	Reset Voltage $\leq$ VDC	Coil Power W
HKE3L-S-DC3V-A-L1	3	45	2.4	2.4	0.2
HKE3L-S-DC5V-A-L1	5	125	4.0	4.0	
HKE3L-S-DC6V-A-L1	6	180	4.8	4.8	
HKE3L-S-DC9V-A-L1	9	405	7.2	7.2	
HKE3L-S-DC12V-A-L1	12	720	9.6	9.6	
HKE3L-S-DC24V-A-L1	24	2880	19.2	19.2	

Double coil L2

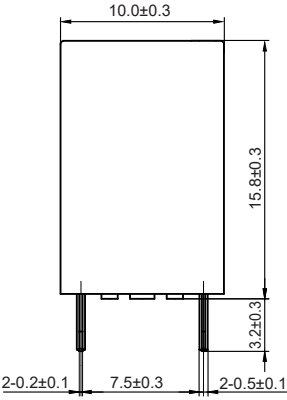
Model	Nominal Voltage VDC	Coil Resistance Ω +/-10%		Operate Voltage $\leq$ VDC	Reset Voltage $\leq$ VDC	Coil Power W	
		SET	RESET			SET	RESET
HKE3L-S-DC3V-A-L2	3	22.5	22.5	2.4	2.4	0.4	0.4
HKE3L-S-DC5V-A-L2	5	62.5	62.5	4.0	4.0		
HKE3L-S-DC6V-A-L2	6	90	90	4.8	4.8		
HKE3L-S-DC9V-A-L2	9	202.5	202.5	7.2	7.2		
HKE3L-S-DC12V-A-L2	12	360	360	9.6	9.6		
HKE3L-S-DC24V-A-L2	24	1440	1440	19.2	19.2		

OUTLINE, WIRING DIAGRAM, MOUNTING HOLE LAYOUT (UNIT: mm)

L1 - Single coil

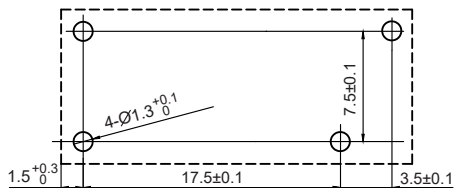


Outline

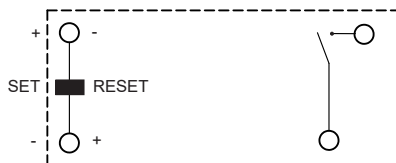


OUTLINE, WIRING DIAGRAM, MOUNTING HOLE LAYOUT (UNIT: mm)

Mounting Hole for L1
(Bottom View)

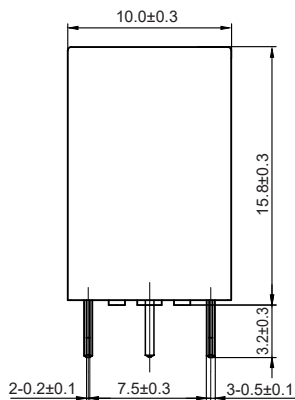
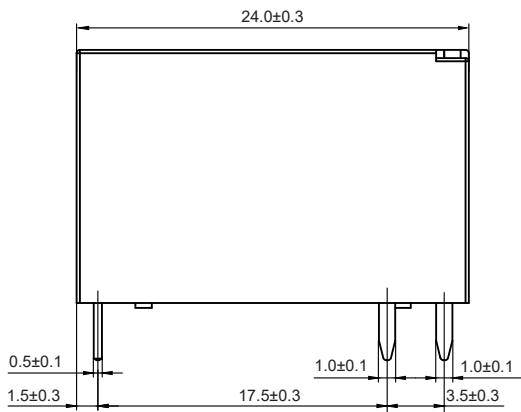


Wiring for L1
(Bottom View)

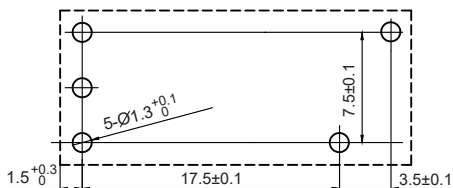


L2 - Double coil

Outline



Mounting Hole for L2
(Bottom View)



Wiring for L2
(Bottom View)

