



Exclusively Represents

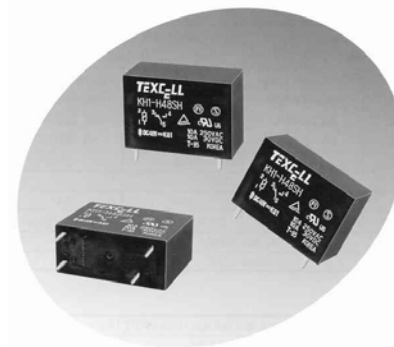
TEXCEL Industrial Relays

Part Number Description

KH □ - □ □ □ □
(1) (2) (3) (4) (5)

- | | |
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| <p>(1) Contact arrangement
11: SPST-NO(1a)</p> <p>(2) Coil Current
E: 16A
H: 10A</p> <p>(3) Coil Voltage
3,5, 6, 9, 12, 24, 48VDC</p> | <p>(4) Sealed Type
S</p> <p>(5) Nil: Standard Type
Nil: Standard type
H: High-Sensitivity type</p> |
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KH SERIES



Features

- High dielectric strength (5KV) and surge voltage resistive (10KV) relay.
- High inrush current capability.
- All plastic materials: UL 94V-0

Typical Applications

- Microwave ovens
- TV sets
- Refrigerators
- Air-conditioners
- Facsimiles
- Copiers
- Stereo equipments
- Temperature controllers, etc.

Specifications

Coil data (at 20°C)

Standard type

Nominal Voltage (VDC)	Pick-up voltage VDC (Max.)	Drop-out voltage VDC (Min.)	Nominal current mA ($\pm 10\%$)	Coil resistance Ω ($\pm 10\%$)	Power Consumption (W)	Max. allowable voltage (VDC)
3	2.4	0.3	240	12.5	0.72W	130% of nominal voltage
5	4.0	0.5	138.9	36		
6	4.8	0.6	120	50		
9	7.2	0.9	78.3	115		
12	9.6	1.2	60	200		
24	19.2	2.4	29.3	820		
48	38.4	4.8	14.5	3300		

High Sensitivity type

Nominal Voltage (VDC)	Pick-up voltage VDC (Max.)	Drop-out voltage VDC (Min.)	Nominal current mA ($\pm 10\%$)	Coil resistance Ω ($\pm 10\%$)	Power Consumption (W)	Max. allowable voltage (VDC)
3	2.4	0.3	176.5	17	0.53W	130% of nominal voltage
5	4.0	0.5	106.4	47		
6	4.8	0.6	88	68		
9	7.2	0.9	58	155		
12	9.6	1.2	44.4	270		
24	19.2	2.4	21.8	1100		
48	38.4	4.8	10.9	4400		



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Contact Data

Item/ Arrangement	SPST-NO(1a)		SPST-NO(1a)	
	E-Type		H-Type	
Rated load	Resistive load ($\cos \phi = 1$) 16A 250VAC 16A 24VDC	Inductive load ($\cos \phi = 0.4$) 8A 250VAC 8A 24VDC	Resistive load ($\cos \phi = 1$) 10A 250VAC 10A 30VDC	Inductive load ($\cos \phi = 0.4$) 5A 250VAC 5A 30VDC
Carrying current	16A	8A	10A	5A
Maximum switching voltage	250VAC, 30VDC			
Maximum switching current	16A	8A	10A	5A
Maximum switching power	4000VA, 384W	2000VA, 192W	2500VA, 300W	1250VA, 150W
Min. permissible load	DC 10V 10mA			
Contact Material	Silver alloy			

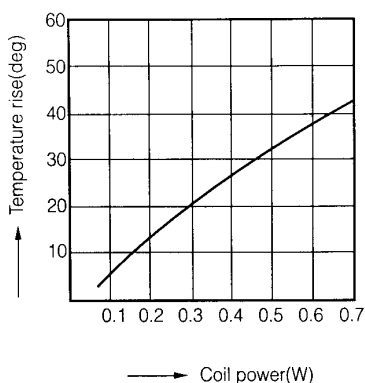
Characteristics (at initial value)

Contact resistance	Max. 100m Ω (by voltage drop 6VDC 1A)
Operate time (at nominal voltage)	Max. 15msec
Release time (at nominal voltage)	Max. 10msec
Operating frequency	20ops/minute
Insulation resistance	1000M Ω min. (500VDC)
Dielectric strength	5000VAC, for 1 minute (between coil and contacts) 1000VAC, for 1 minute (between open contacts)
Vibration resistance	Functional: 10 to 55Hz at double amplitude of 1.5mm Destructive: 10 to 55Hz at double amplitude of 1.5mm
Shock resistance	10G min. (Functional) 100G min. (Destructive)
Surge voltage resistance	10,000V (between coil and contacts)
Ambient temperature	-40°C to +95°C (storage), -25 to +95°C (operating)
Humidity	45 to 85% RH
Life expectancy	Mechanical: Min. 1×10^7 operations Electrical: Min. 1×10^5 operations (at rated load)
Weight	13g approx.

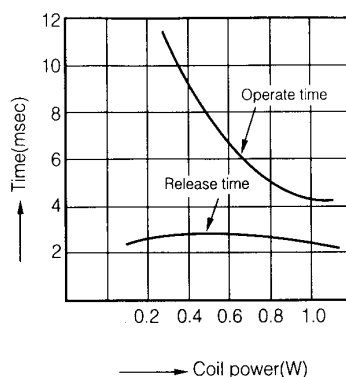
Note: The above figures are initial values

Data

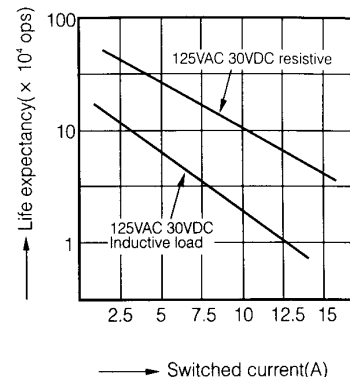
Coil temperature rise



Operate time



Life expectancy





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Approved by Standard

Coil rating	Contact form	cUL(File No. E122258)	TUV(File No. R9354089)	FIMKO (File No. 181593) SEMKO (File No. 9527076)
3 to 48VDC	SPST(1a) H-Type	10A 250AC (TV-5) 10A 30VDC	10A 250VAC 10A 30VDC	10A 250VAC
	SPST-NO(1a) E-Type	16A 250VAC 16A 24VDC	16A 250VAC 8A 24VDC	

Dimensions

