



TEXCELL

FEATURES

The Texcell KB series relay is a PC-mount, low-cost, high reliability, SPST or SPDT relay. It is intended for industrial control applications up to 16A. UL, CSA and TÜV approved.



- Compact small-size mounting space for high density packaging
- Low cost — high reliability
- SPST NO (1a) or SPDT (1c) contact
- Flux-tight or sealed package is available
- All plastic materials: UL 94V-0
- Class B and Class F types are available as options

SPECIFICATIONS

Contact Data

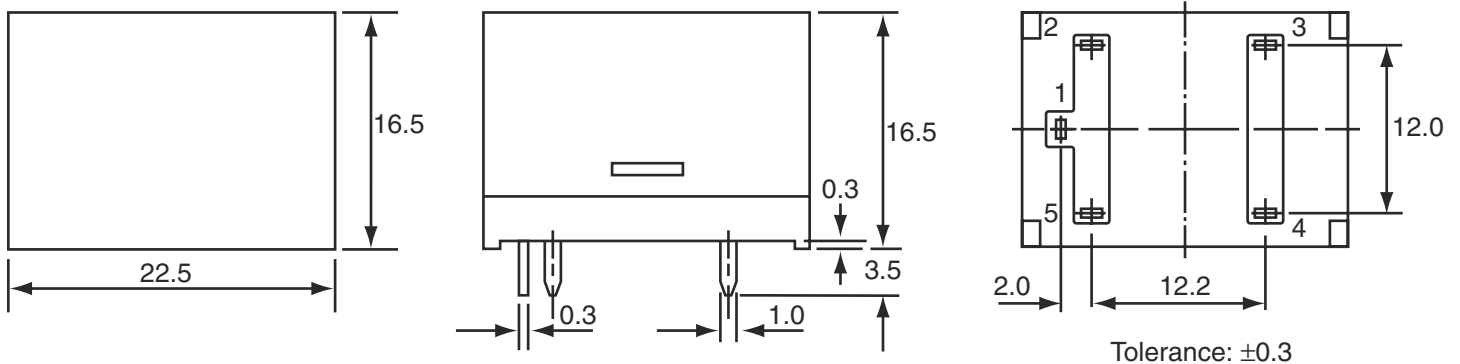
Item / Arrangement	SPST-NO(1a), SPDT(1c)			
	E-Type		H-Type	
Rated Load	Resistive Load (cos ϕ = 1)	Inductive Load (cos ϕ = 0.4)	Resistive Load (cos ϕ = 1)	Inductive Load (cos ϕ = 0.4)
	16A 125VAC	8A 125VAC	10A 125VAC	5A 125VAC
	8A 250VAC	4A 250VAC	5A 250VAC	2.5A 250VAC
	10A 30VDC	5A 30VDC	5A 30VDC	2.5A 30VDC
Carrying Current	16A		10A	
Max. Switching Voltage	250VAC, 30VDC			
Max. Switching Current	16A	8A	10A	5A
Max. Switching Power	2,000VA, 300W	1,000VA, 150W	1,250VA, 150W	625VA, 75W
Min. Permissible Load	DC 5V 100mA			
Contact Material	Silver alloy		Silver alloy	

Characteristics (At Initial Value)

Contact Resistance	Max. 100mOhm (by voltage drop 6VDC 1A)
Operate Time (at Nominal Voltage)	Max. 10msec.
Release Time (at Nominal Voltage)	Max. 5msec.
Operating Frequency	20ops/minute
Insulation Resistance	Min. 100MOhm (at 500VDC)
Dielectric Strength	1,500VAC, for 1 minute between coil and contacts 750VAC, 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	Functional: Min. 10G Destructive: Min. 100G
Ambient Temperature	-40 to +70°C (storage), -25 to 70°C (operating)
Humidity	35 to 85% RH
Life Expectancy	Mechanical: Min. 1×10^7 operations Electrical: Min. 1×10^5 operations (at rated load)
Weight	About 10g

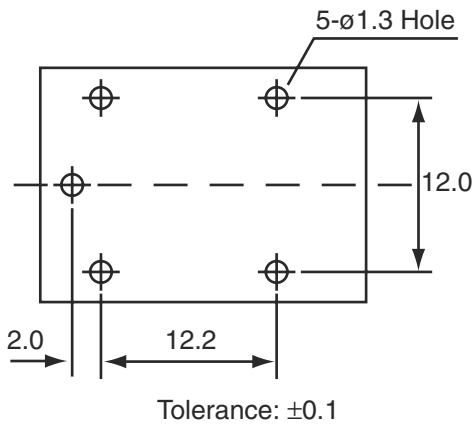
DIMENSIONS

mm (inch)



PAD LAYOUT

(bottom view) mm (inch)

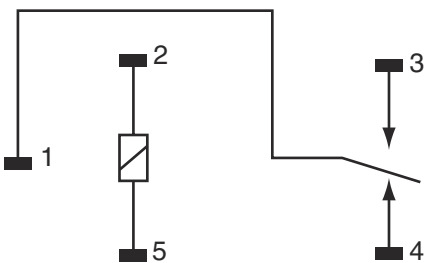


MARKINGS

Coil Rating	Contact Form	CSA(LR85873)	TÜV(R9755037)	UL (File No. E134581)
3 to 48 VDC	SPDT(1C) SPST-NO(1A)	10A 125VAC 5A 125VAC 3A 250VAC 3A 30VDC	10A 125VAC 5A 250VAC 5A 30VDC 16A 125VAC 8A 250VAC 10A 30VDC	12A 125VAC, resistive 5A 30VDC 1/4HP 125VAC 6A 125VAC, resistive 1/10HP 125VAC 3A 250VAC, resistive 3A 30VDC 16A 125VAC, resistive 10A 30VDC

SCHEMATICS

(bottom view)



The above shows SPDT(1c Type)
and No. 4 terminal is eliminated on
the SPST(1a Type).

PART NUMBER SYSTEM

KB 1 - H 12 F B
① ② ③ ④ ⑤

① Contact Arrangement

1: SPDT(1c)
11: SPST-NO(1a)

② Contact Current

E: 16A
H: 10A

③ Coil Voltage

3, 5, 6, 9, 12, 24, 48 VDC

④ Identifier

NIL: Standard type
F: Flux-tight type
S: Plastic sealed type

⑤ Class

NIL: Class a
B: Class B (130°)
F: Class F (155°)

NOMINAL LINEUP

Coil Data (at 20° C)

Nominal Voltage VDC	Pick-up Voltage VDC (Max.)	Drop-out Voltage VDC (Min.)	Nominal Current mA (±10%)	Coil Resistance Ohm (±10%)	Power Consumption (W)	Max. Allowable Voltage (VDC)
3	2.4	0.3	120	25	0.36W	130% of nominal voltage
5	4	0.5	72	69.4		
6	4.8	0.6	60	100		
9	7.2	0.9	40	225		
12	9.6	1.2	30	400		
24	19.2	2.4	15	1,600		
48	38.4	4.8	7.5	6,400		

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