



TEXCELL

FEATURES

The Texcell KML series relay is a 10A-15A relay available in 1FC or 2FC. DC or AC coils are available along with multiple mounting options from PC-mount to plug-in to bracket mounting.



- Long life and high reliability
- Strong construction for vibration and shock
- Approximately thousands of kinds are available depending on the combination of terminals, covers, contact ratings, coils, etc.
- Plastic materials: UL 94V-0

SPECIFICATIONS

Contact Data

Item / Arrangement	KML1		KML2	
	SPDT(1c)		DPDT(2c)	
Rated Load	Resistive Load (cos ϕ = 1) 15A 250VAC 15A 30VDC	Inductive Load (cos ϕ = 0.4) 10A 250VAC 7A 30VDC	Resistive Load (cos ϕ = 1) 10A 250VAC 10A 30VDC	Inductive Load (cos ϕ = 0.4) 7.5A 250VAC 5A 24VDC
Carrying Current	15A		10A	
Max. Switching Voltage	250VAC, 30VDC			
Max. Switching Current	15A		10A	
Max. Switching Power	3,750VA, 450W	2,500VA, 210W	2,500VA, 300W	425VA, 120W
Min. Permissible Load	DC 5V 100mA			
Contact Material	Silver alloy			

Characteristics (At Initial Value)

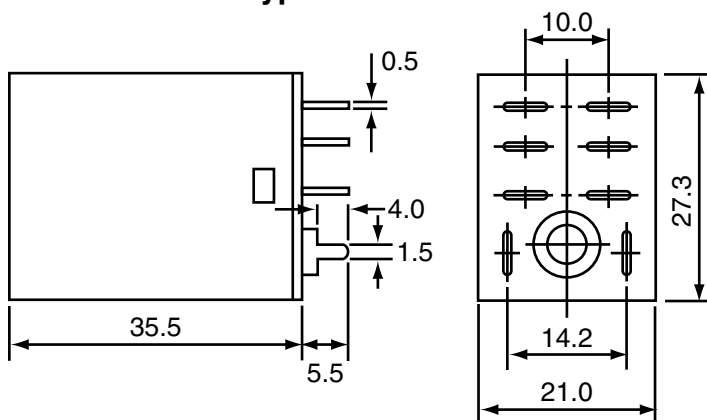
Contact Resistance	Max. 100mOhm (by voltage drop 6VDC 1A)
Operate Time (at Nominal Voltage)	Max. 20msec.
Release Time (at Nominal Voltage)	Max. 20msec.
Operating Frequency	20ops/minute
Insulation Resistance	Min. 100MOhm (at 500VDC)
Dielectric Strength	1,500VAC, for 1 minute between coil and contacts 750VAC, for 1 minute between contact sets 750VAC, for 1 minute between open contacts
Vibration Resistance	Functional: 6G, 10 to 55Hz at double amplitude of 1mm Destructive: 12G, 10 to 55Hz at double amplitude of 2mm
Shock Resistance	Functional: Min. 20G Destructive: Min. 100G
Ambient Temperature	-40 to +70°C
Humidity	45 to 85% RH
Life Expectancy	Mechanical: 1×10^7 operations Electrical: 2×10^5 operations (at rated load)
Weight	About 35g

DIMENSIONS

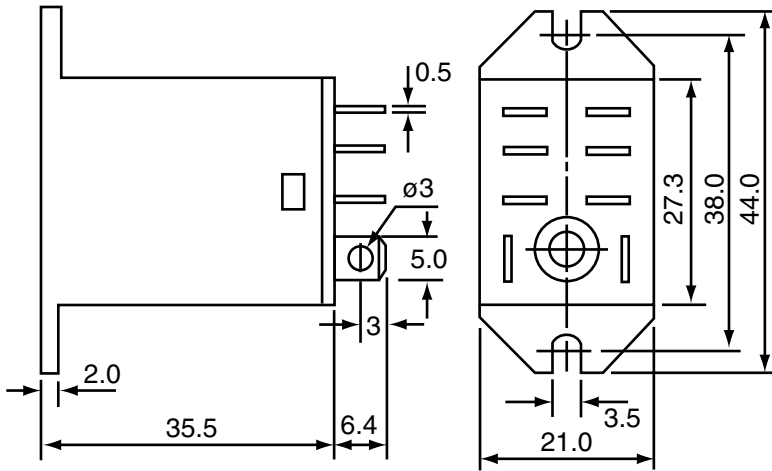
mm (inch)

Tolerance: ± 0.3

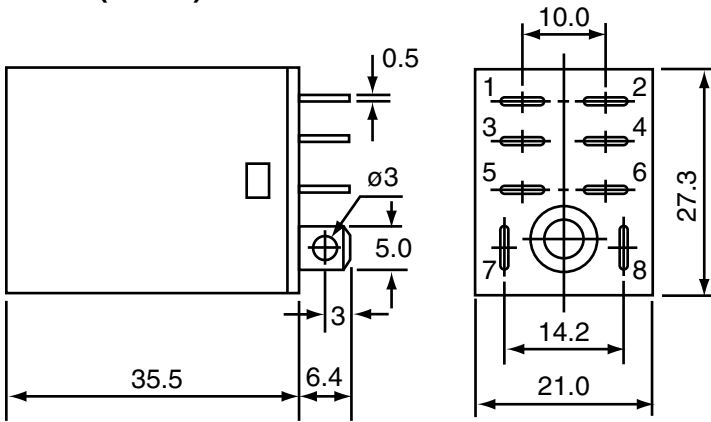
P.C.B. Terminal Type



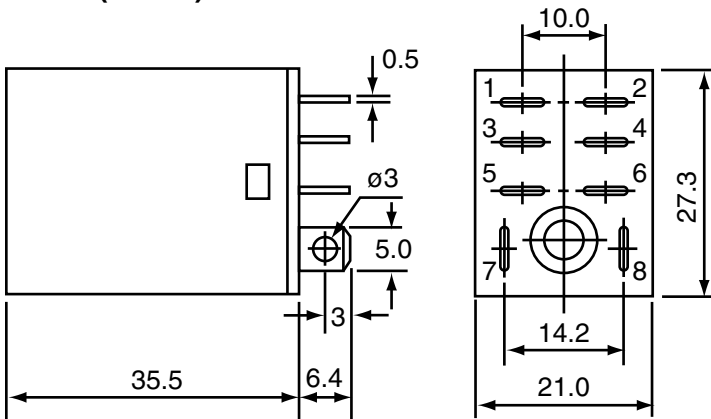
Bracketed Cover Type (1c, 2c)



KML1 (SPDT)



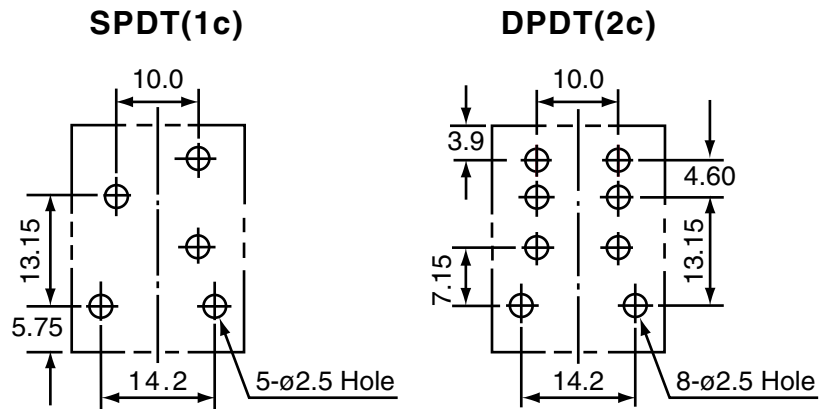
KML2 (DPDT)



PAD LAYOUT

(bottom view) mm (inch)

Tolerance: ± 0.1



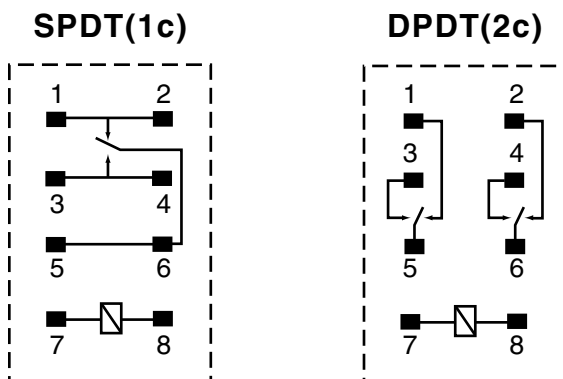
APPROVAL STANDARDS

Coil Rating	Contact Form	UL (File No. E122258)
6 to 100VDC 12 to 240VAC	SPDT(1c) DPDT(2c)	1c: 15A 240VAC, 15A 30VDC 2c: 10A 250VAC, 10A 30VDC

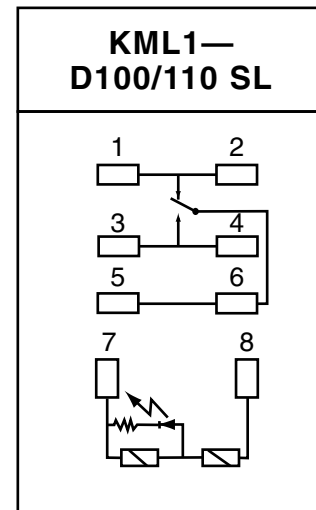
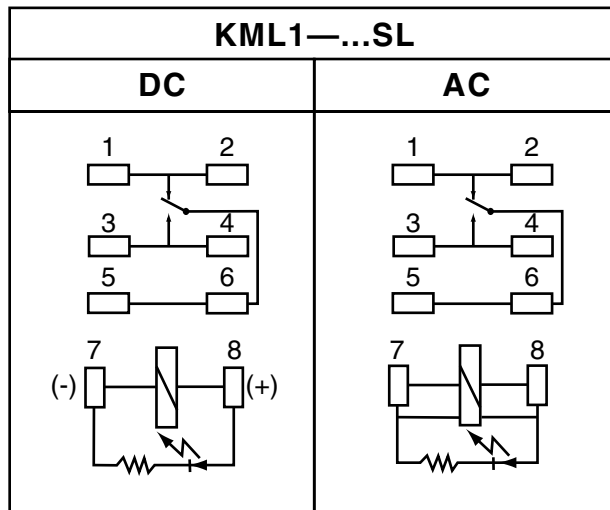
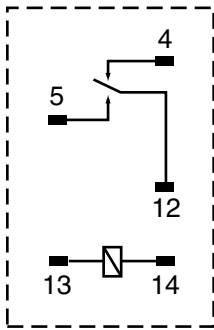
SCHEMATICS

(bottom view)

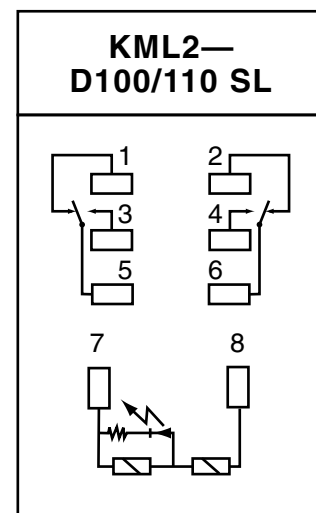
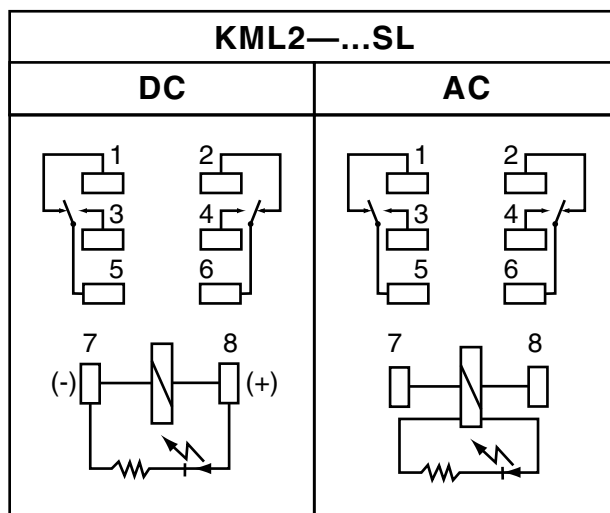
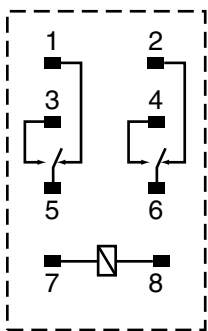
P.C.B. Terminal and Bracketed CoverType



KML1 (SPDT)



KML2 (DPDT)



PART NUMBER SYSTEM

KML 1 - A24 P
 ① ② ③

① Contact Arrangement

- 1: SPDT(1c)
- 2: DPDT(2c)

② Coil Voltage

- DC: 6, 12, 24, 48, 100/110VDC
- AC: 6, 12, 24, 50, 100/110, 110/120, 200/220, 220/240VAC

③ Terminal Form

- P: PC board
- S: Plug-in
- B: Top mounting
- SL: Light emitting diode wired plug-in
- PL: Light emitting diode wired pc board

NOMINAL LINEUP

Coil Data (at 20° C)

DC Type

Nominal Voltage VDC	Pick-up Voltage VDC (Max.)	Drop-out Voltage VDC (Min.)	Nominal Current mA ($\pm 10\%$)	Coil Resistance Ohm ($\pm 10\%$)	Power Consumption (W)	Max. Allowable Voltage (VDC)
6	4.8	0.6	150	40	0.9W	110% of nominal voltage
12	9.6	1.2	75	160		
24	19.2	2.4	36.9	650		
48	38.4	4.8	18.5	2,600		
100/110	80/88	10/11	9.1/10	11,000		

AC Type

Nominal Voltage VDC	Pick-up Voltage VAC (Max.)	Drop-out Voltage VAC (Min.)	Nominal Current mA (+15, -20%)	Coil Resistance Ohm ($\pm 10\%$)	Power Consumption (W)	Max. Allowable Voltage (VDC)
6	4.8	1.8	183	12.2	Approx. 1.0-1.2VA	110% of nominal voltage
12	9.6	3.6	91	46		
24	19.2	7.2	46	180		
50	40	15	22	788	Approx. 0.9-1VA	
100/110	80/88	30/33	10/11	3,750		
110/120	88/96	33/36	8.4/9.2	4,430		
200/220	160/176	60/66	5.3/5.8	12,950		
220/240	176/192	66/72	4.2/4.6	18,790		

World Products Inc.

19654 8th St. East, Sonoma, CA 95476 USA
Phone: (707) 996-5201 Fax: (707) 996-3380
E-mail: emdsales@worldproducts.com

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