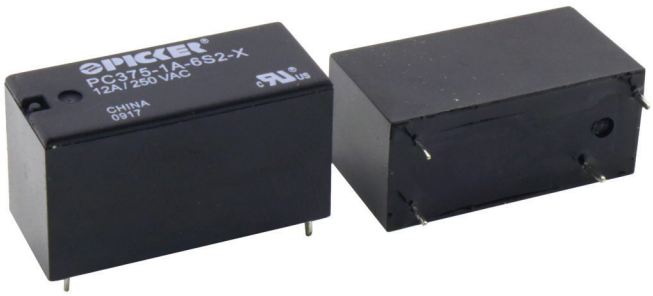
Low Profile PCB Power Relay

c UL us E86876

PC375



FEATURES

- Meets UL 873 Spacing
- Class F Material Standard
- Up to 16 Amp Continuous Contact Capacity
- 5KV Dielectric Strength Between Coil & Contacts
- 105°C Operating Temperature

UL / CUL Ratings

Version 1 — 3.5mm terminal spacing		
Contact Form	1 Form A SPST N.O. 1 Form C SPDT	
Rated Load	Voltage	Amps
NO, Resistive, 6K cycles, 85°C	250VAC / 30VDC	12A
NC, Resistive, 6K cycles, 85°C	250VAC / 30VDC	12A

Version 2 — 5mm terminal spacing		
Contact Form	1 Form A SPST N.O. 1 Form C SPDT	
Rated Load	Voltage	Amps
NO, Resistive, 6K cycles, 85°C	250VAC / 30VDC	12A
NC, Resistive, 6K cycles, 85°C	250VAC / 30VDC	12A

Version 3 — 5mm terminal spacing		
Contact Form	1 Form A SPST N.O. 1 Form C SPDT	
Rated Load	Voltage	Amps
NO, Resistive, 6K cycles, 85°C	250VAC / 30VDC	16A
NO, Resistive, 100K cycles, 105°C	277VAC	16A
NC, Resistive, 6K cycles, 85°C	250VAC / 30VDC	16A

Version 4 — 5mm terminal spacing		
Contact Form	2 Form A DPST N.O. 2 Form C SDPDT	
Rated Load	Voltage	Amps
NO, Resistive, 6K cycles, 85°C	277VAC / 30VDC	8A
NC, Resistive, 6K cycles, 85°C	277VAC / 30VDC	8A

CONTACT DATA

Maximum Switching Power	480 W, 4000 VA
Maximum Switching Voltage	380 VAC, 110 VDC
Maximum Switching Current	16A
Material	$AgSnO_2$
Initial Contact Resistance	50 mΩ max.
Service Life Mechanical	1 x 10^7 operations
Electrical	1 x 10^5 operations

CHARACTERISTICS

Insulation Resistance	1,000M Ω min. at 500 VDC
Dielectric Strength	5000V rms, between coil & contacts 1000V rms, between contact
Power Consumption	.41 W
Terminal Strength	10N
Solderability	260°C 5s ± 0.5s
Operating Temperature	-55ºC to 105ºC
Storage Temperature	-55ºC to 155ºC
Shock Resistance	10g for 11 ms, functional
Vibration Resistance	2.0mm double amplitude 10 Hz - 55 Hz
Weight	12g

Values can change due to the switching frequency, desired reliability levels, environmental conditions, and in-rush current levels. It is recommended to test to actual load conditions for the applicaiton. It is the users responsibility to determine the performance suitability for their specific application. The use of any coil voltage less than the rated coil voltage may compromise the operation of the relay.

ORDERING INFORMATION

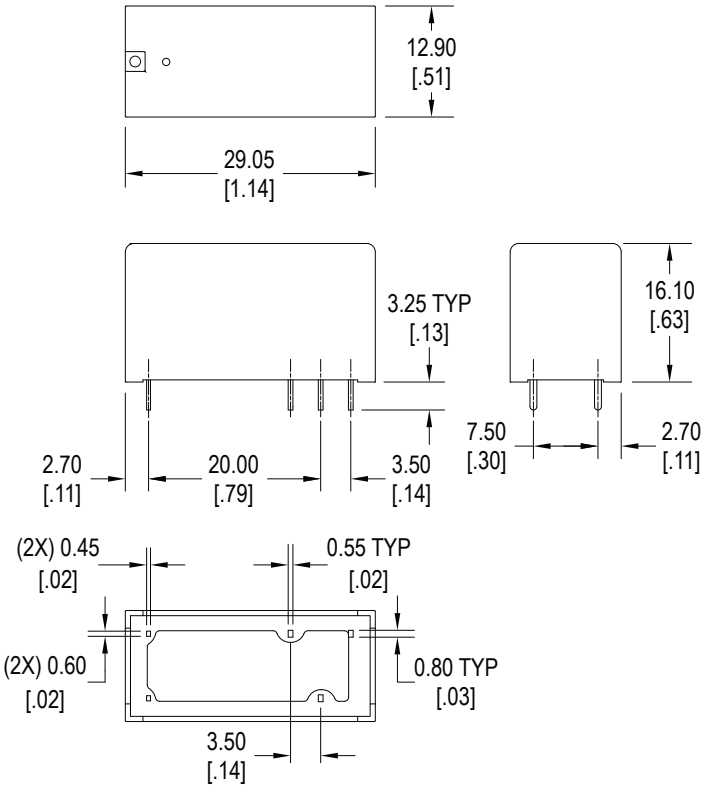
Example	PC375	-1C	-12	S	2		-X		
Model:	PC375								
Contact Form	1A 1C 2A 2C								
Coil Voltage	5 = 5VDC 6 = 6VDC 9 = 9VDC 12 = 12VDC 24 = 24VDC								
Enclosure	S = Sealed C = Dust Cover								
Version	1 = 1 Pole, 1A or 1C, 12 amp, 3.5mm terminal spacing 2 = 1 Pole, 1A or 1C, 12 amp, 5.0mm terminal spacing 3 = 1 Pole, 1A or 1C, 16 amp, 5.0mm terminal spacing 4 = 2 Pole, 2A or 2C, 8 amp, 5.0mm terminal spacing*								
Coil Sensitivity	Nil = 410m W								
RoHS Compliant:	X = RoHS Compliant								
Contact Material	Nil = AgSnO2								
Insulation Material	Nil = Class F								

* 5, 12 & 24 VDC Coils only

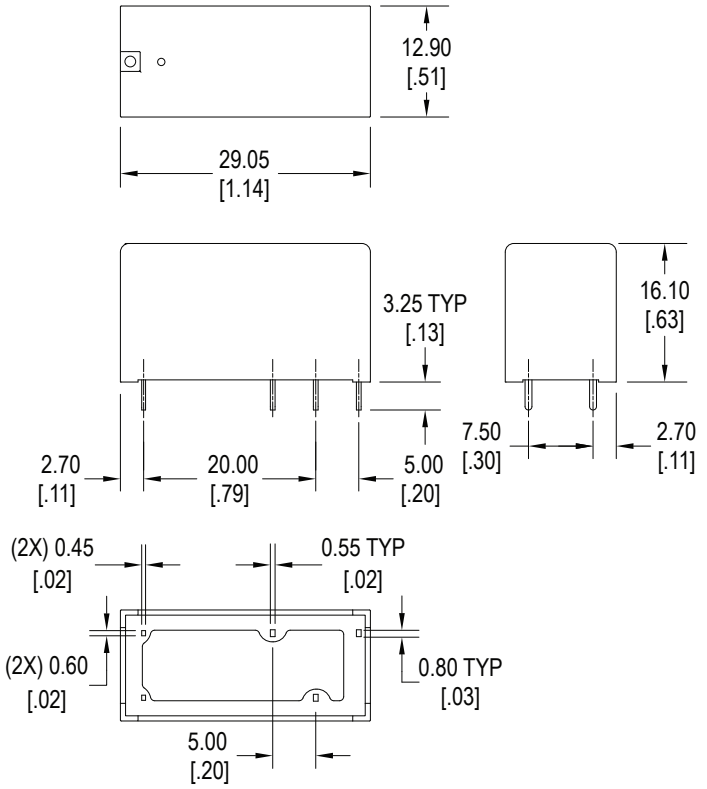
COIL DATA - Single Coil

Coil Voltage		Resistance (Ohms ± 10%)	Pick Up Voltage Max. VDC	Release Voltage Min. VDC	Coil Power W	Operate Time ms	Release Time ms
Rated	Max						
5	6.5	62	3.75	.5	.41	10	5
6	7.8	90	4.50	.6			
9	11.7	202	6.75	.9			
12	15.6	360	9.00	1.2			
24	31.2	1440	18.00	2.4			

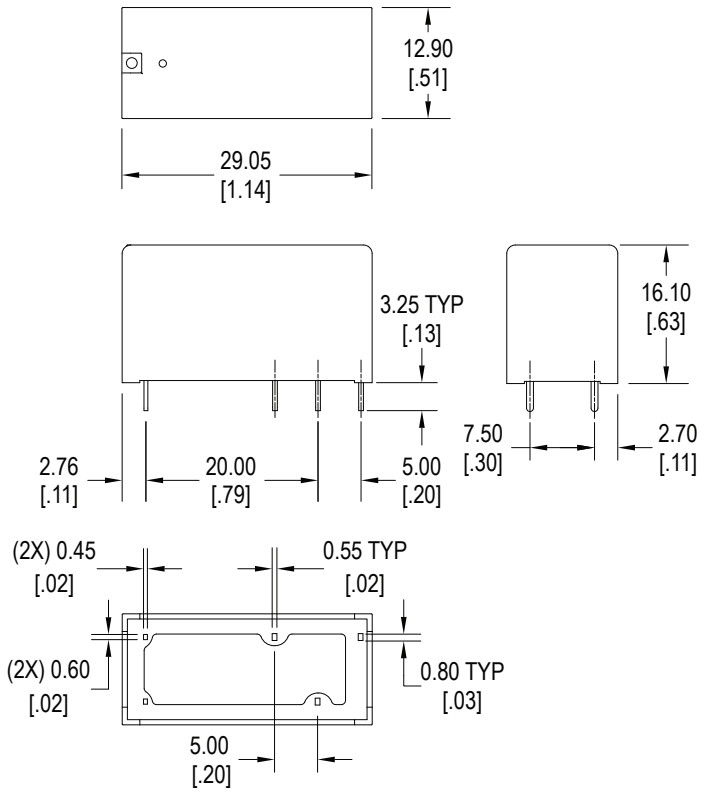
DIMENSIONS *Inches (mm)*



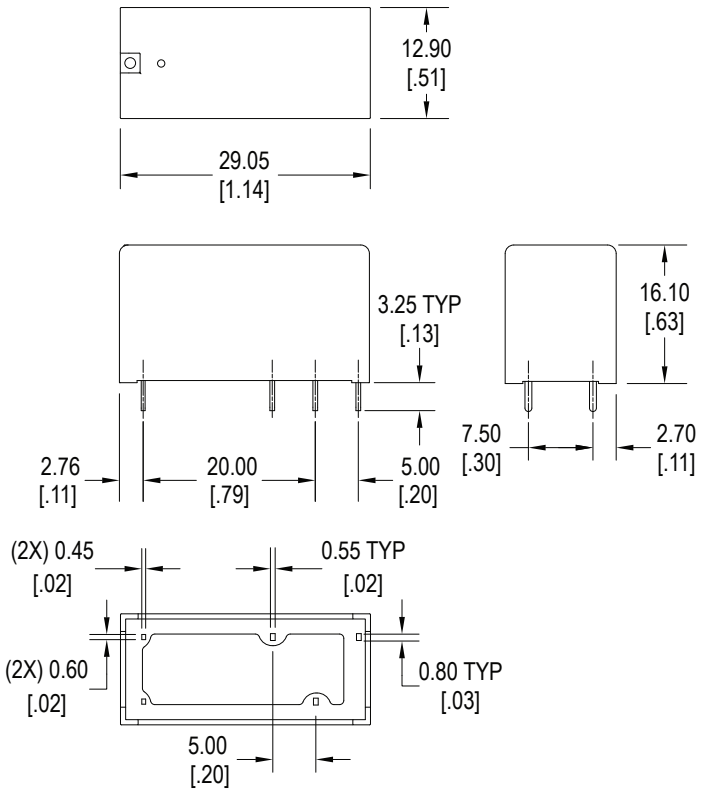
Version 1, 1C, 3.5mm Terminal Spacing



Version 2, 1C, 5.0mm Terminal Spacing

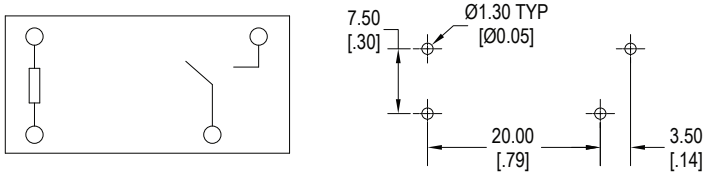


Version 3, 1C, 5.0mm Terminal Spacing

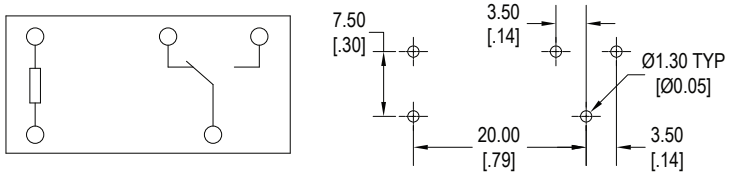


Version 4, 2C, 5.0mm Terminal Spacing

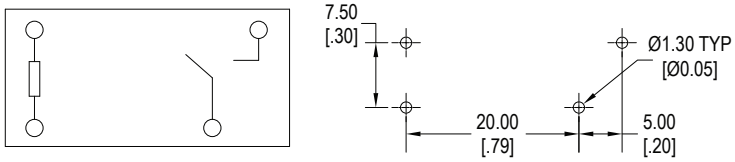
SCHEMATICS & PC LAYOUT *Bottom Views*



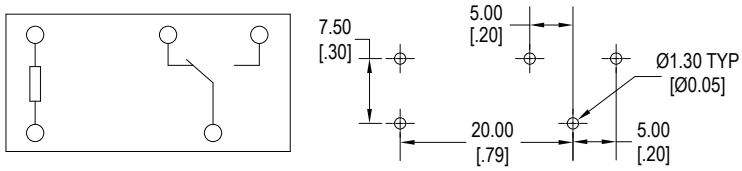
Version 1, 1A, 3.5mm Terminal Spacing



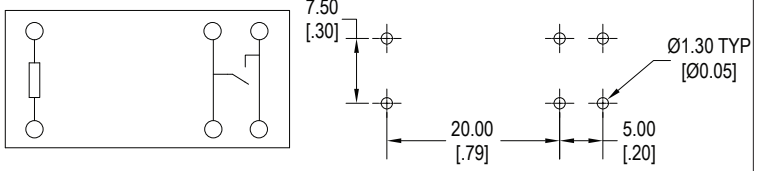
Version 1, 1C, 3.5mm Terminal Spacing



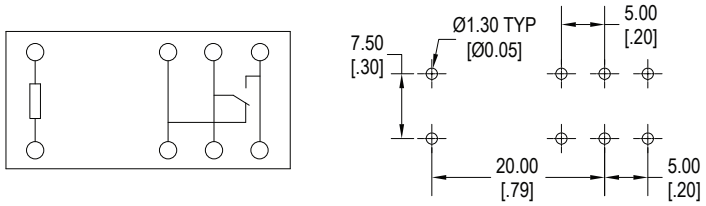
Version 2, 1A, 5.0mm Terminal Spacing



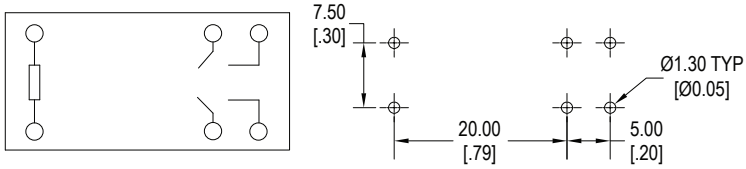
Version 2, 1C, 5.0mm Terminal Spacing



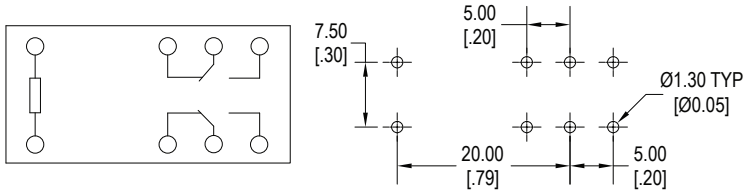
Version 3, 1A, 5.0mm Terminal Spacing



Version 3, 1C, 5.0mm Terminal Spacing

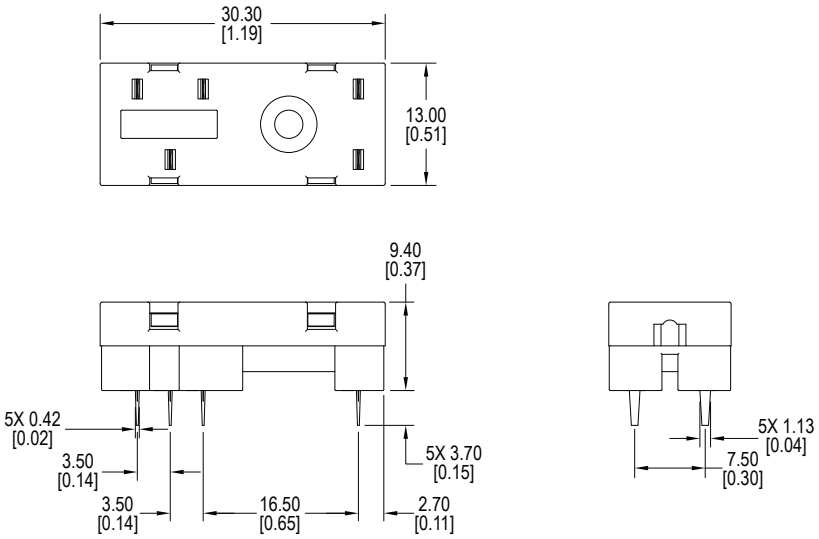


Version 4, 2A, 5.0mm Terminal Spacing

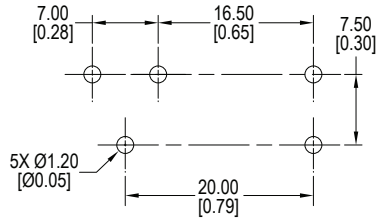


Version 4, 2C, 5.0mm Terminal Spacing

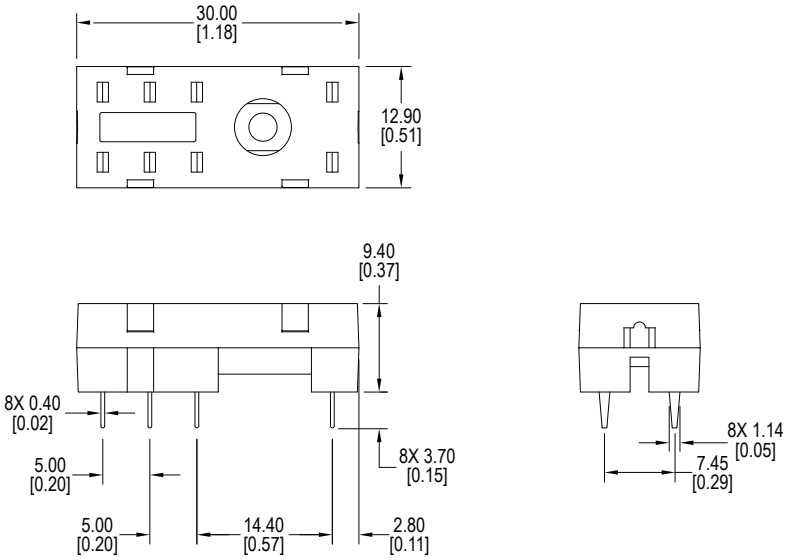
SOCKETS *Units = mm [in]*



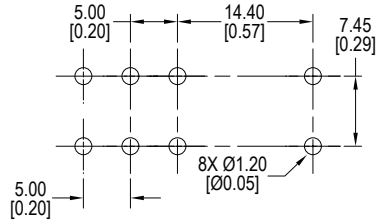
RS114A



Suggested PC Layout

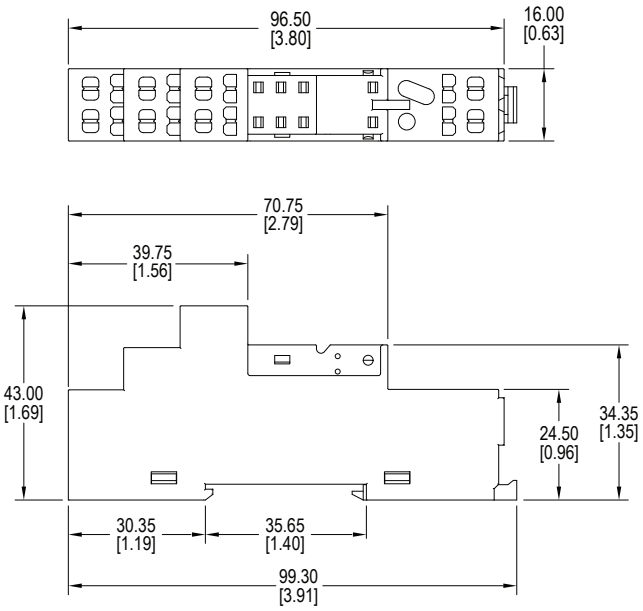


RS114B

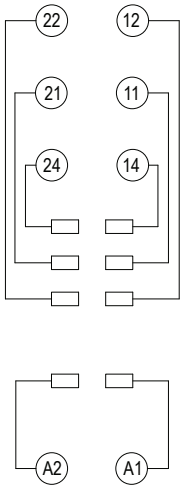


Suggested PC Layout

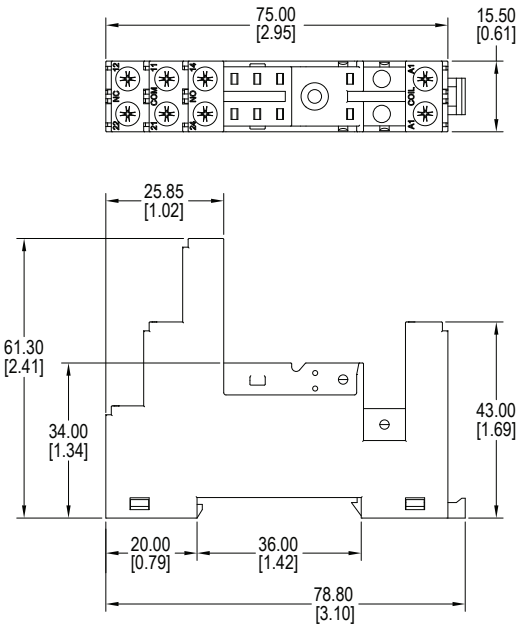
SOCKETS *Units = mm [in]*



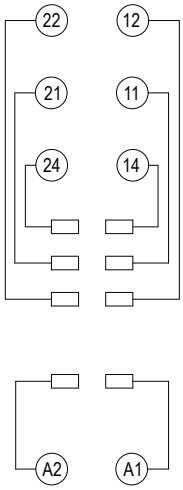
RS114C



Schematic



RS114D



Schematic

