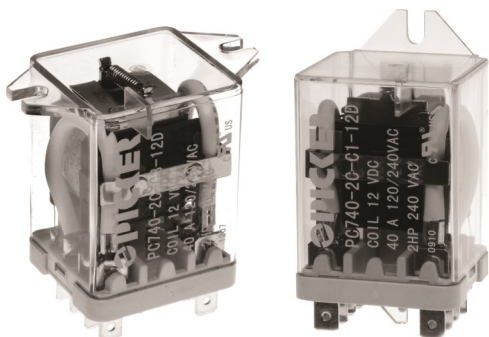


# 40 Amp Power Relay

**PC740**


## FEATURES

- 1/4 Inch Male Quick Connect Terminals
- Up To 40 Amp Switching Capacity
- Up to 2 Horsepower Rating
- Four Mounting Styles
- Compatible with SC740 Din Rail Socket
- AC Coils Up To 240 V or DC Coils Up To 110 V
- RoHS Compliant

**CULUS E93379**

Load Type	Voltage	2 Form C All Contacts	3 Form C All Contacts
General Purpose	120 VAC	40 A	40 A
	250 VAC	40 A*	40 A*
	28 VDC	40 A	40 A
Resistive	120 VAC	40 A*	40 A*
	250 VAC	30 A*	30 A*
	28 VDC	40 A	40 A
Motor	250 VAC	2 HP*	1/2 HP
	120 VAC	1 1/2 HP*	1/2 HP
LRA/FLA	250 VAC	72 A / 12 A*	72 A / 12 A*
	120 VAC	120 A / 29 A*	120 A / 29 A*

\* Per UL

## CHARACTERISTICS

Operate Time	25 ms Max
Release Time	15 ms Max
Insulation Resistance	500 MΩ min. at 500 VDC
Shock Resistance	10 g, 11ms, Functional 100 g, Destructive
Power Consumption	DC Coil 2.5 W, AC Coil 5.5 VA

## ORDERING INFORMATION

Example: PC740 -2C -C -120A -P

Model: **PC740**

Contact Form: **2A, 2C, 3A, 3C**

Case Type: **C**: Plain Case; **C1**: Side Flange; **C3**: Top Flange;  
**C4**: Plain Case Base with Inserts

Coil Voltage: **XXXA**: AC Coil; **XXXD**: DC Coil

**Nil**: QC: **P**: PC Pins

**Nil**: Rohs Compliant

Box Quantity: 100; Inner Box: 10

## CONTACT DATA

Material	AgCdO (Silver Cadmium Oxide)	
Initial Contact Resistance	100 mΩ max. @ 6 V, 1A	
Max. Switching Voltage	28 VDC, 250 VAC	
Max. Switching Power	1120 W, 10 KVA	
Max. Breaking Capacity	10,000 VA	
Service Life	Mechanical	1 X 10 <sup>7</sup> Operations
	Electrical	1 X 10 <sup>5</sup> Operations

Dielectric Strength	2,500 Vrms, 1 min. Between Coil and Contacts
	1,500 Vrms, 1 min. Between Open Contacts
Vibration Resistance	10 Hz - 55 Hz DA 2.0 mm
Solderability	235°C ± 2°C 3 s ± 0.5 s
Operating Temperature	-25 to 55 °C
Relative Humidity	75% (at 30°C)
Weight	115-130 grams

Compatible with SC740 Din Rail Socket

## COIL DATA

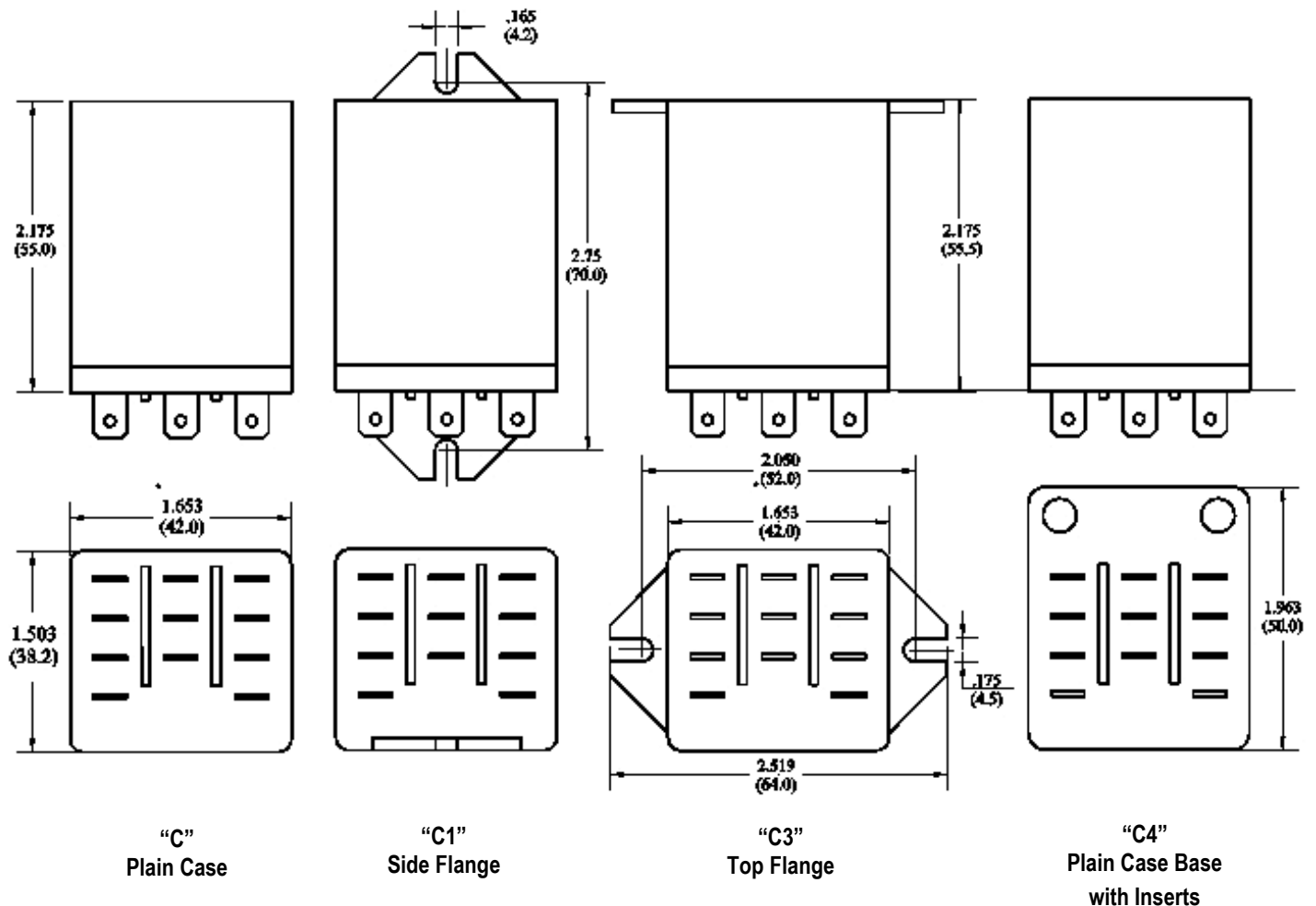
Voltage Type	Coil Voltage*		Resistance Ohms $\pm 10\%$	Must Operate Volt- age Max. (VDC)	Must Release Voltage Min. (VDC)
Coil Power	Rated	Max			
DC 2.5 W	12	13.2	57.6	9.6	1.2
	24	26.4	230	19.2	2.4
	48	52.8	921	38.4	4.8
	110	242	4840	176.0	11.0
AC 5.5 VA	12	26.4	8.4	19.2	3.6
	24	52.8	34	38.4	7.2
	48	121	134	88.0	14.4
	120	242	706	176.0	33.0
	220	312	2,820	192.0	66.0

\*Other Coil Voltages are available upon request.

## NOTES:

The use of any coil voltage less than the rated voltage will compromise the operation of the relays. Must Operate Voltage is listed for test purposes only and is not to be used as design criteria. Pickup and release voltages are for test purposes only and are not to be used as design criteria. Dimensions are in mm, Inches are listed for reference only.

## CASE TYPE (inches/mm)



Lake-View Electronics Corp. 1054 Pioneer Rd. Grafton, WI Ph: 262-377-8250 Fax: 262-375-0109

[www.lvelectronics.com](http://www.lvelectronics.com)

Email: [sales@lvelectronics.com](mailto:sales@lvelectronics.com)

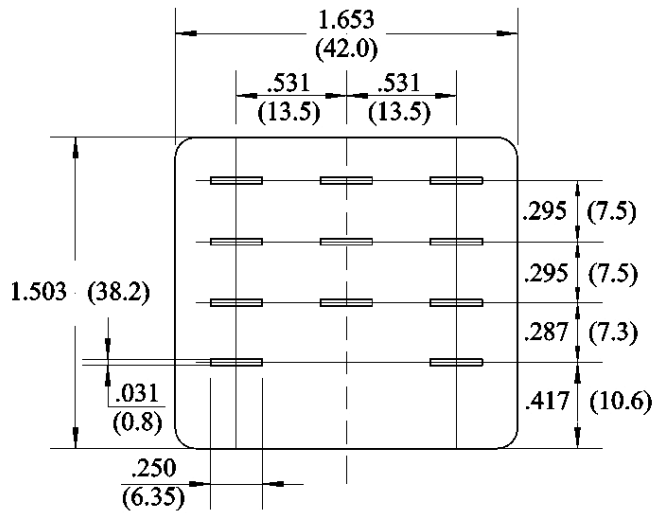
Dimensions are listed for reference purposes only.

PC740 Rev G 1/21/2016

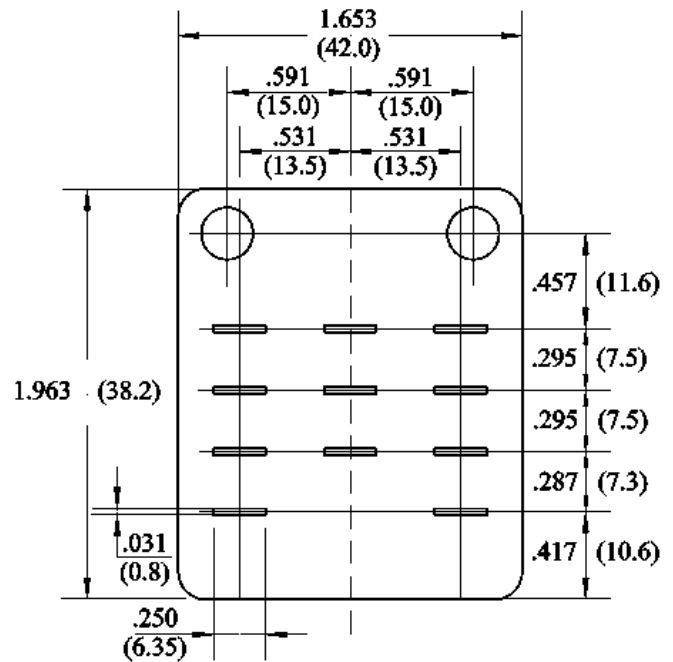
2 of 4

Specifications and Availability subject to change without notice.

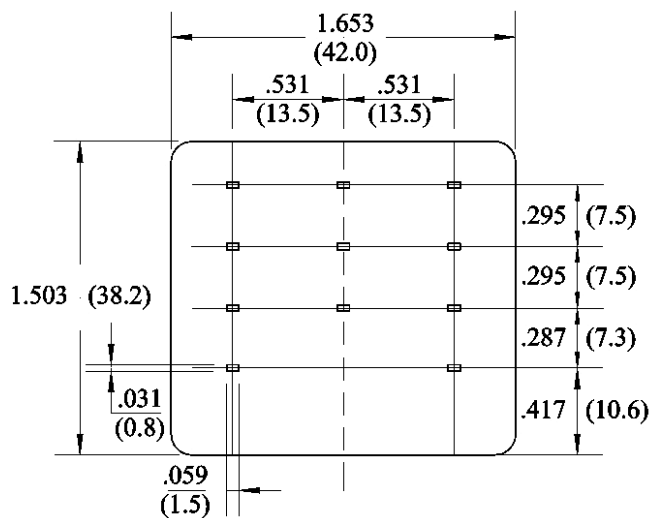
## MOUNTING TYPES (inches/mm)



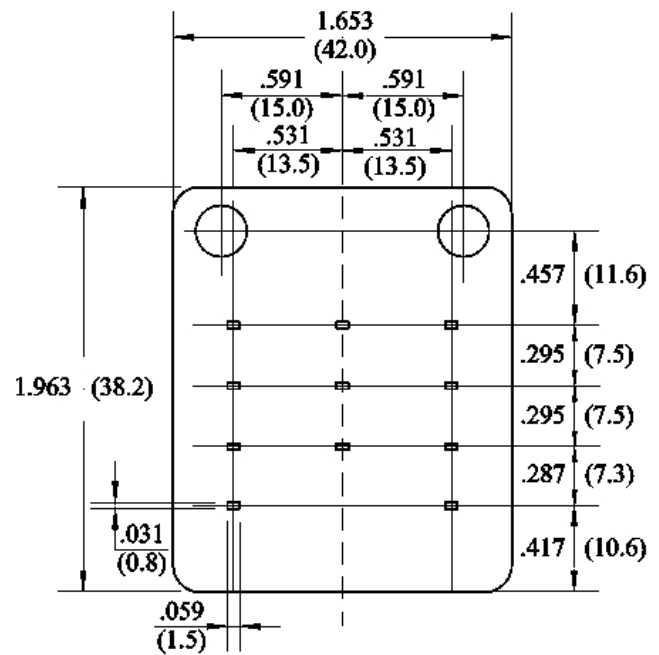
"Nil"  
Quick Connect Pins (QC)



"Nil"  
Quick Connect Pins (QC) with "C4"

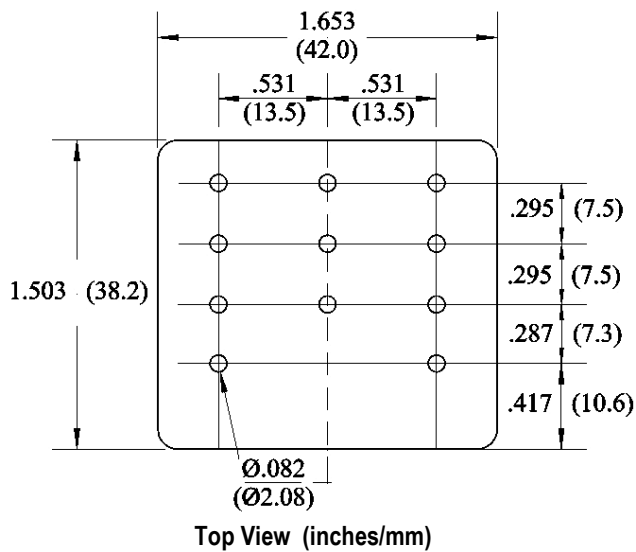


"P"  
PC Pins with "C"

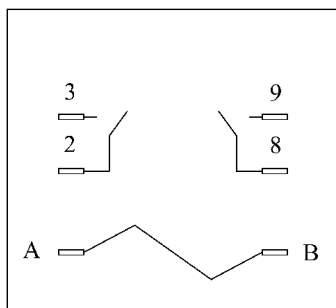


"P"  
"PC Pins with "C4"

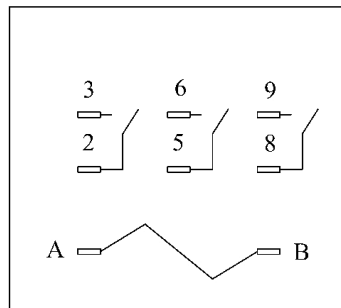
## PRINTED CIRCUIT BOARD LAYOUT



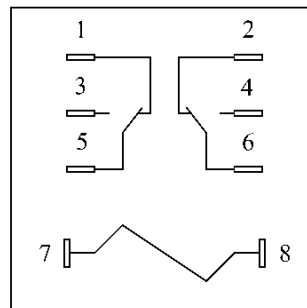
## CONTACT FORMS



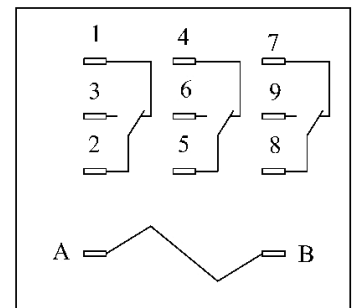
"2A"



"3A"



"2C"



"3C"

## REFERENCE CURVES

