

Overleaf mounting Options and Detail

80A
_
145A
125A
115A
105A
95A
Capacity ( <sup>I</sup> cn) 5ms Time Constant:
400A at 48V D.C.§
400A at 96V D.C.§
Capacity ( <sup>I</sup> cn) Resistive Load:
120A at 48V D.C.§
120A at 96V D.C.§
ontact Voltages (U <sub>e</sub> ):
48V D.C. 60V D.C.
96V D.C. 120V D.C.
<40mV
>3 x 10 <sup>6</sup> Cycles
A.C.) From 6 to 130V D.C.
,
es 14 - 21 Watts
10 - 14 Watts
7 - 10 Watts
5 - 7 Watts
nil at 20° C) Guideline:
es 60% U <sub>S</sub>
_
60% U <sub>s</sub>
60% U <sub>S</sub>
66% U <sub>S</sub>
10 - 25% U <sub>S</sub>
15ms
Contacts to Open):
6ms
35ms
8 - 20ms
od 3ms
- 40°C to + 60°C
190 gms
+ 20 gms
+ 8 gms

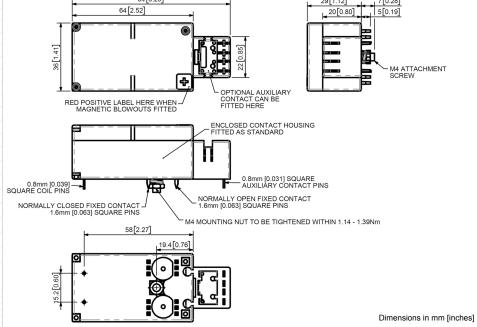
The PC61 is a miniature series single pole double throw contactor designed for printed circuit board mounting. Devised for both interrupted and uninterrupted loads, the PC61 is suitable for switching Resistive, Capacitive and Inductive loads. Typical applications include Telecommunication, UPS and other power conversion systems.

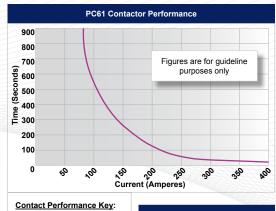
Interrupted current - opening and closing on load with frequent switching (results in increased contact resistance).

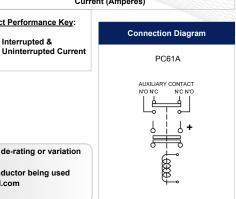
Uninterrupted current - no or infrequent load switching requirements (maintains a lower contact resistance).

The PC61 features single pole double breaking main contacts with silver alloy tips, which are weld resistant, hard wearing and have excellent conductivity. The PC61 can be secured to the printed circuit board by means of an M4 bolt. Note: The PC range now incorporates the mounting board option, previously assigned to the MB range (existing MB part numbers remain valid).









PC61 Available Options		
General		Suffix
Auxiliary Contacts	0	Α
Auxiliary Contacts - V4	X	
Magnetic Blowouts†	0	В
Magnetic Blowouts - High Powered†	X	
Armature Cap	X	
Mounting Brackets	X	
Magnetic Latching† (Not fail safe)	0	М
Closed Contact Housing <sup>‡</sup>	0	
Environmentally Protected IP66§	0	Р
EE Type (Steel Shroud)	X	
Contacts		
Large Tips	X	
Textured Tips	X	
Silver Plating	X	
Washable	0	W
Coil		
AC Rectifier Board (Fitted)	X	
Coil Suppression <sup>†</sup>	X	
Flying Leads	X	
Manual Override Operation	X	
M4 Stud Terminals	X	
M5 Terminal Board	X	
Vacuum Impregnation	Χ	
<b>Key:</b> Optional ○ Standard • N	lot Availa	ble X
† Connections become polarity sensitive	)	
<sup>‡</sup> Enclosed top cover standard when blowouts not fitted		

§ Not Suitable with Mounting Base

- Performance data provided should be used as a guide only. Some de-rating or variation from figures may be necessary according to application.
- Thermal current ratings stated are dependant upon the size of conductor being used
- For further technical advice email: technical@albrightinternational.com
- Albright reserve the right to change data without prior notice

designed to make and break current

Interrupted &

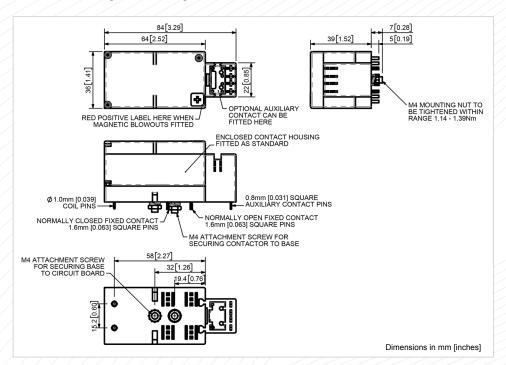


Overleaf - PC61 Data

### **Mounting Boards**

All configurations of the PC61 can be supplied with an optional separate mounting base which can be soldered to the circuit board. After soldering and washing the printed circuit board, the PC contactor can be plugged into the base and secured by means of an M4 nut on the underside of the board. Removal for servicing or replacement is possible by removal of the nut and unplugging the PC contactor from the base.

### **PC61 with Mounting Base Drawing**





**PC61 Mounting Base** 

# Washable Contactors and Auxiliary Contacts (PC61AW)

Normally the auxiliary contacts are supplied already fitted to the contactor. However, if the printed circuit boards are to be washed after soldering, the auxiliary contact is supplied separately and the contactor is temporarily sealed with a rubber plug. After washing this is removed and the auxiliary contact can then be fitted.

PC61 showing Temporary Rubber Plug



**Note:** The PC61AW contactors (with or without optional mounting board) are not therefore fully protected against the environment to the same degree as the PC61P.



PC61 on Mounting Base

## Installation

To accomodate the PC Contactors, printed circuit boards should be drilled in accordance with the mounting details opposite. Prior to soldering, the PC61 can be secured to the circuit board by means of a M4 bolt which protrudes from the underside of the contactor.

If the full current ratings of the contactors are to be utilised, circuit board tracks should have the appropriate thickness and width of copper. Conventional hand or wave soldering techniques can be used.



PC61 with Mounting Base and PC61 mounted on Printed Circuit Board

## **Mounting Detail**

