

30% Duty 30% Duty 50% Duty 50% Duty 70% Duty Rated Fault Current Breaking Capacity in accordance with UL583*) PC61 PC61B Rated Fault Current Breaking Capacity in accordance with UL508*		A A A	
50% Duty 50% Duty 70% Duty Rated Fault Current Breaking Capacity fin accordance with UL583*) PC61 PC61B Rated Fault Current Breaking Capacity fin accordance with UL508*)	125 115 105 95 <i>/</i> ([/] cn) 5ms Time	A A A	
40% Duty 50% Duty 50% Duty 70% Duty Rated Fault Current Breaking Capacity in accordance with UL583*) PC61 PC61B Rated Fault Current Breaking Capacity in accordance with UL508*	125 115 105 95 <i>/</i> ([/] cn) 5ms Time	A A A	
70% Duty Rated Fault Current Breaking Capacity (in accordance with UL583*) PC61 PC61B Rated Fault Current Breaking Capacity (in accordance with UL508*)	115 105 95 <i>/</i> ([/] cn) 5ms Time	A ,	
60% Duty 70% Duty Rated Fault Current Breaking Capacity (in accordance with UL583*) PC61 PC61B Rated Fault Current Breaking Capacity (in accordance with UL508*)	105 95 <i>I</i> (^I cn) 5ms Time	A A	
70% Duty Rated Fault Current Breaking Capacity (in accordance with UL583*) PC61 PC61B Rated Fault Current Breaking Capacity (in accordance with UL508*)	95 <i>I</i> (^I cn) 5ms Time	A	
Rated Fault Current Breaking Capacity (in accordance with UL583*) PC61 PC61B Rated Fault Current Breaking Capacity (in accordance with UL508*)	(^I cn) 5ms Time		
(in accordance with UL583*) PC61 PC61B Rated Fault Current Breaking Capacity (in accordance with UL508*)		Constant:	
PC61B Rated Fault Current Breaking Capacity (in accordance with UL508*)	400A at 48		
Rated Fault Current Breaking Capacity (in accordance with UL508*)	400A at 48V D.C.§		
(in accordance with UL508*)	400A at 96V D.C.§		
PC61	(^I cn) Resistive	Load:	
F C 0 1	120A at 48	N D C §	
PC61B	120A at 96		
Maximum Recommended Contact Volta		OV D.C.°	
PC61	48V D.C.	60V D.C.	
PC61B	96V D.C.	120V D.C.	
Typical Voltage Drop per pole			
across New Contacts at 80A	40mV		
Mechanical Durability	>3 x 10 ⁶ Cycles		
Coil Voltage Available (U _S) (Rectifier board required for A.C.)	From 6 to 130V D.C.		
Coil Power Dissipation:		•	
Highly Intermittent Rated Types	14 - 21 Watts		
Intermittently Rated types	10 - 14 Watts		
Prolonged Rated Types	7 - 10 Watts		
Continuously Rated Types	5 - 7 Watts		
Maximum Pull-In Voltage (Coil at 20° C) Guideline:	,	
Highly Intermittent Rated types	60% U _S		
(Max 25% Duty Cycle)	·		
Intermittently Rated types (Max 70% Duty Cycle)	60% U _s		
Prolonged Operation	60% U _s		
(Max 90% Duty Cycle) Continuously Rated Types	· -		
(100% Duty Cycle)	66% U _S		
Drop-Out Voltage Range	10 - 25% U _s		
Typical Pull-In Time	15ms		
Typical Drop-Out Time (N/O Contacts to	o Open):		
Without Suppression	6ms		
With Diode Suppression	35ms		
With Diode and Resistor (Subject to resistance value)	8 - 20ms		
Typical Contact Bounce Period	3ms		
Operating Ambient Temperature	- 40°C to + 60°C		
	190 ams		
With Auxiliary			
•	-		
Guideline Contactor Weight: PC61 With Auxiliary With Blowouts Auxiliary Det	190 gms + 20 gms + 8 gms		

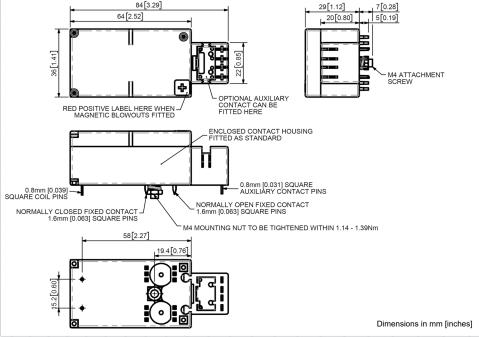
The PC61 is a miniature series single pole double throw contactor designed for printed circuit board mounting. Devised for both interrupted and uninterrupted loads, the PC61 is suitable for switching Resistive, Capacitive and Inductive loads. Typical applications include Telecommunication, UPS and other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

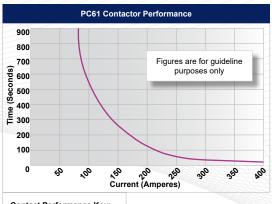
Interrupted current - opening and closing on load with frequent switching (results in increased contact resistance).

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).







Contact Performance Key: Interrupted & **Uninterrupted Current**

Connection Diagram
PC61A
AUXILIARY CONTACT NO NC NC NC NC

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 [‡]	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 [†]	X			
Flying Leads	X			
Manual Override Operation	X			
M4 Stud Terminals	X			
M5 Terminal Board	X			
Vacuum Impregnation	Χ			
Key: Optional ○ Standard • N	lot Availa	ble X		
† Connections become polarity sensitive				
[‡] Enclosed top cover standard when blowouts not fitted				

§ Not Suitable with Mounting Base

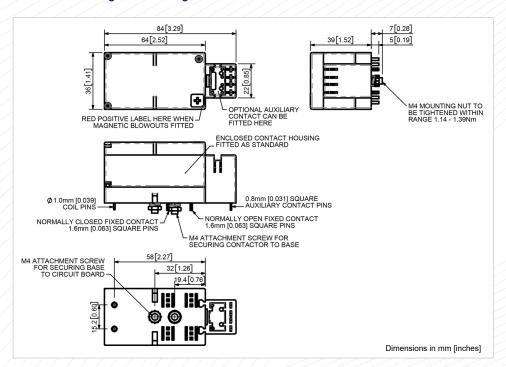
- Performance data provided should be used as a guide only. Some de-rating or variation from figures may be necessary according to application. Thermal current ratings stated are dependant upon the size of conductor being used
- For further technical advice email: technical@albrightinternational.com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



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

