

Архангельск (8182)63-90-72 Астана (7172)727-132 Астрахань (8512)99-46-04 Барнаул (3852)73-04-60 Белгород (4722)40-23-64 Брянск (4832)59-03-52 Владивосток (423)249-28-31 Волгоград (844)278-03-48 Вологда (8172)26-41-59 Воронеж (473)204-51-73 Екатеринбург (343)384-55-89 Иваново (4932)77-34-06 Ижевск (3412)26-03-58 Казань (843)206-01-48 Калининград (4012)72-03-81 Калуга (4842)92-23-67 Кемерово (3842)65-04-62 Киров (8332)68-02-04 Краснодар (861)203-40-90 Красноярск (391)204-63-61 Курск (4712)77-13-04 Липецк (4742)52-20-81 Магнитогорск (3519)55-03-13 Москва (495)268-04-70 Мурманск (8152)59-64-93 Набережные Челны (8552)20-53-41 Нижний Новгород (831)429-08-12 Новокузнецк (3843)20-46-81 Новосибирск (383)227-86-73 Омск (3812)21-46-40 Орел (4862)44-53-42 Оренбург (3532)37-68-04 Пенза (8412)22-31-16 Пермь (342)205-81-47 Ростов-на-Дону (863)308-18-15 Рязань (4912)46-61-64 Самара (846)206-03-16 Санкт-Петербург (812)309-46-40 Саратов (845)249-38-78 Севастополь (8692)22-31-93 Симферополь (3652)67-13-56 Смоленск (4812)29-41-54 Сочи (862)225-72-31 Ставрополь (8652)20-65-13 Сургут (3462)77-98-35 Тверь (4822)63-31-35 Томск (3822)98-41-53 Тула (4872)74-02-29 Тюмень (3452)66-21-18 Ульяновск (8422)24-23-59 Уфа (347)229-48-12 Хабаровск (4212)92-98-04 Челябинск (351)202-03-61 Череповец (8202)49-02-64 Ярославль (4852)69-52-93

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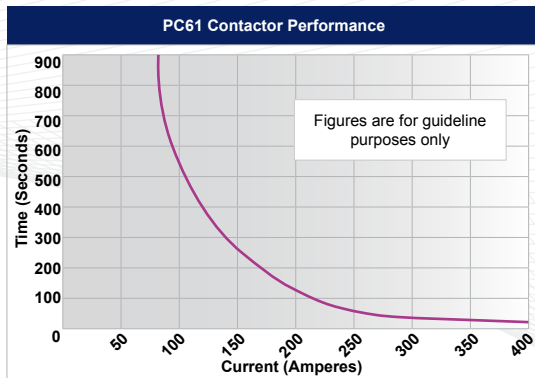
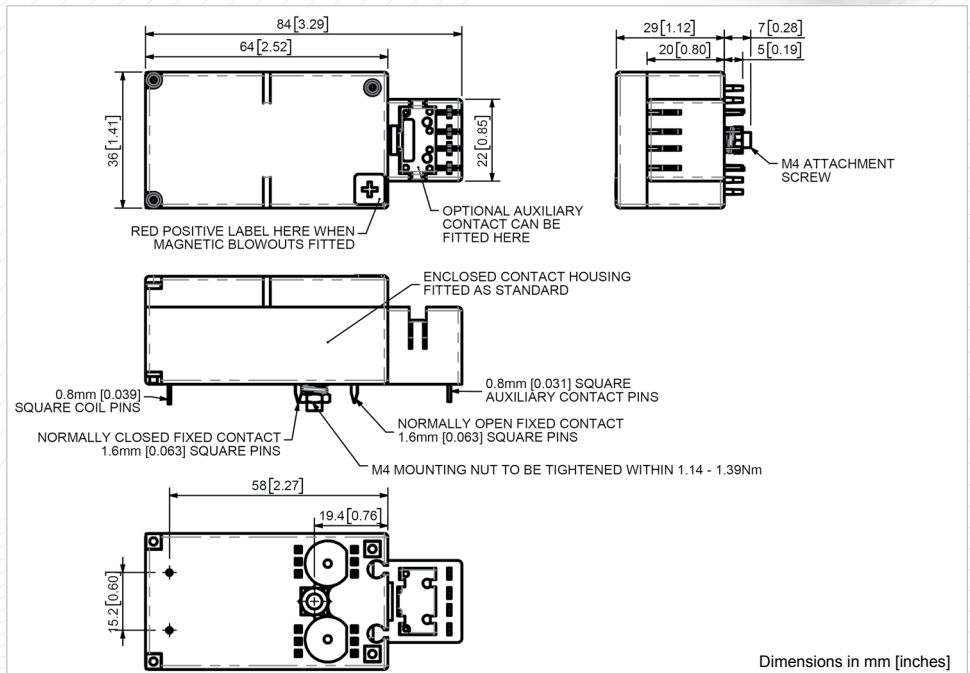
Application	Interrupted	Uninterrupted
Thermal Current Rating (I _{th})		80A
Intermittent Current Rating:		
30% Duty		145A
40% Duty		125A
50% Duty		115A
60% Duty		105A
70% Duty		95A
Rated Fault Current Breaking Capacity (I _{cn}) 5ms Time Constant: (in accordance with UL583*)		
PC61		400A at 48V D.C.‡
PC61B		400A at 96V D.C.‡
Rated Fault Current Breaking Capacity (I _{cn}) Resistive Load: (in accordance with UL508*)		
PC61		120A at 48V D.C.‡
PC61B		120A at 96V D.C.‡
Maximum Recommended Contact Voltages (U _e):		
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 M.T.B.F	>3 x 10 ⁶	
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 (Max 25% Duty Cycle)		60% U _s
Intermittently Rated types (Max 70% Duty Cycle)		60% U _s
Prolonged Operation (Max 90% Duty Cycle)		60% U _s
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 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
Guideline Contactor Weight:		
PC61		190 gms
With Auxiliary		+ 20 gms
With Blowouts		+ 8 gms
Auxiliary Details		
Auxiliary Thermal Current Rating		5A
Auxiliary Contact Switching Capabilities (Resistive Load):		
		5A at 24V D.C.
		1A at 60V D.C.
		0.5A at 120V D.C.
		0.25A at 240V D.C.
Advised Connection Sizes for Maximum Continuous Current		
Circuit Board Tracks		Rated suitable for Application
Key: ▶ = Interrupted ▶ = Uninterrupted		
Note: Where applicable values shown are at 20° C		
* Please check our web site for product UL status		
‡ Normally Open contacts only - Normally Closed contacts are not designed to make and break current		

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.

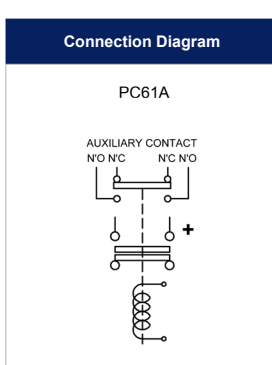
- **Interrupted** current - opening and closing on load with frequent switching (results in increased contact resistance).
- **Uninterrupted** current - no or infrequent load switching requirements (maintains a lower contact resistance).



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



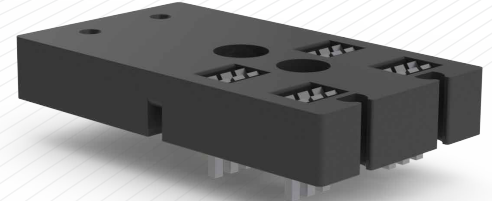
PC61 Available Options		
General		Suffix
Auxiliary Contacts	<input type="radio"/>	A
Auxiliary Contacts - V4	<input checked="" type="checkbox"/>	X
Magnetic Blowouts†	<input type="radio"/>	B
Magnetic Blowouts - High Powered†	<input checked="" type="checkbox"/>	X
Armature Cap	<input checked="" type="checkbox"/>	X
Mounting Brackets	<input checked="" type="checkbox"/>	X
Magnetic Latching† (Not fail safe)	<input type="radio"/>	M
Closed Contact Housing†	<input type="radio"/>	
Environmentally Protected IP66‡	<input type="radio"/>	P
EE Type (Steel Shroud)	<input checked="" type="checkbox"/>	X
Contacts		
Large Tips	<input checked="" type="checkbox"/>	X
Textured Tips	<input checked="" type="checkbox"/>	X
Silver Plating	<input checked="" type="checkbox"/>	X
Washable	<input type="radio"/>	W
Coil		
AC Rectifier Board (Fitted)	<input checked="" type="checkbox"/>	X
Coil Suppression†	<input checked="" type="checkbox"/>	X
Flying Leads	<input checked="" type="checkbox"/>	X
Manual Override Operation	<input checked="" type="checkbox"/>	X
M4 Stud Terminals	<input checked="" type="checkbox"/>	X
M5 Terminal Board	<input checked="" type="checkbox"/>	X
Vacuum Impregnation	<input checked="" type="checkbox"/>	X
Key: <input type="radio"/> Optional <input type="checkbox"/> Standard <input checked="" type="checkbox"/> Not Available <input checked="" type="checkbox"/> X		
† Connections become polarity sensitive		
‡ Enclosed top cover standard when blowouts not fitted		
§ Not Suitable with Mounting Base		

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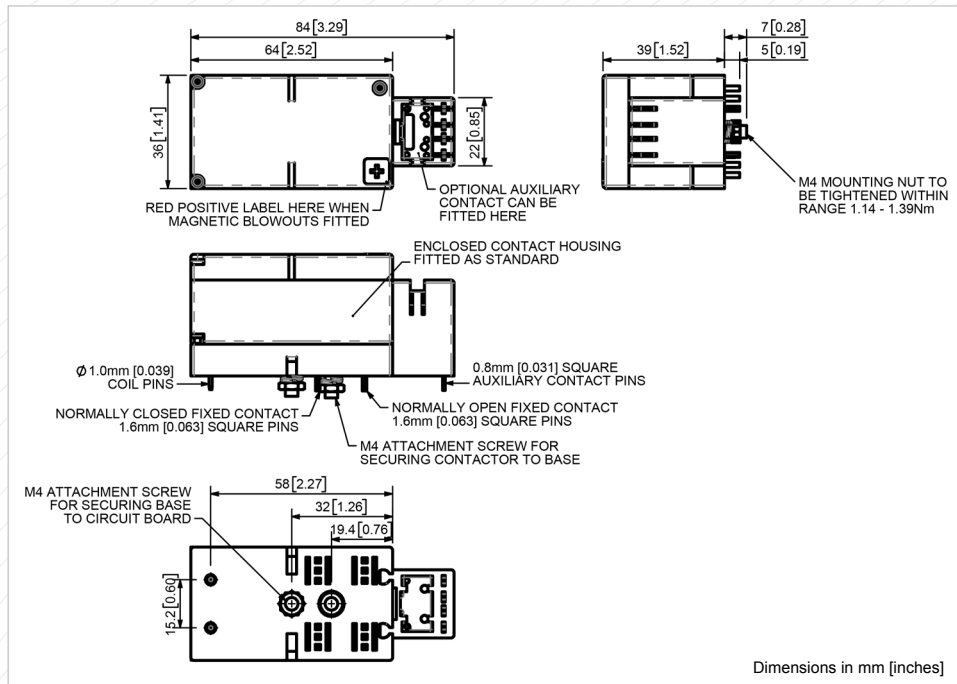
Mounting Boards

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 PC61 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 PC61 contactor from the base.



PC61 Mounting Base

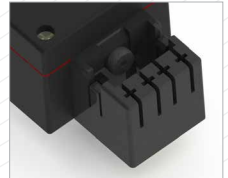
PC61 with Mounting Base Drawing



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.



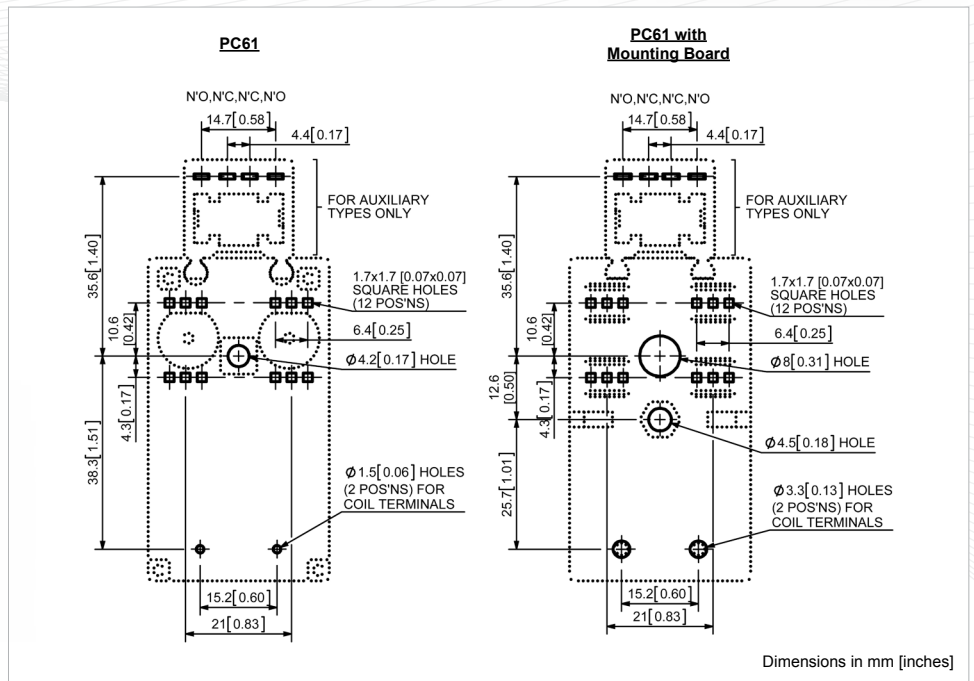
PC61 on Mounting Base

Installation

To accommodate 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.

Mounting Detail



PC61 with Mounting Base and PC61 mounted on Printed Circuit Board

