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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*)		
PC60		400A at 48V D.C.
PC60B		400A at 96V D.C.
Rated Fault Current Breaking Capacity (I _{cn}) Resistive Load: (in accordance with UL508*)		
PC60		120A at 60V D.C.
PC60B		120A at 96V D.C.
Maximum Recommended Contact Voltages (U _g):		
PC60	48V D.C.	60V D.C.
PC60B	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:		
PC60		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		

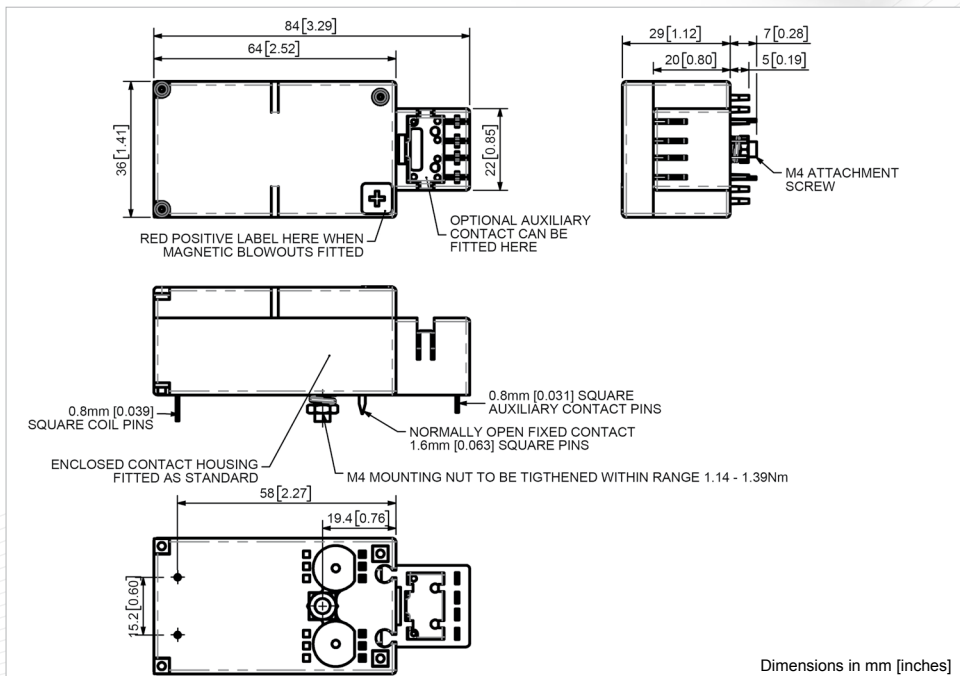
The PC60 is a miniature series single pole single throw contactor designed for printed circuit board mounting. Devised for both interrupted and uninterrupted loads, the PC60 is suitable for switching Resistive, Capacitive and Inductive loads. Typical applications include Telecommunication, UPS and other 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).

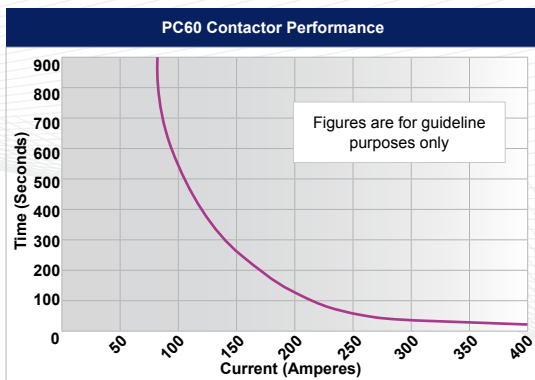


PC60

The PC60 features single pole double breaking main contacts with silver alloy tips, which are weld resistant, hard wearing and have excellent conductivity. The PC60 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).



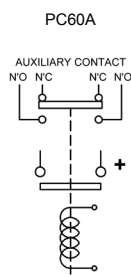
Dimensions in mm [inches]



Contact Performance Key:

— Interrupted & Uninterrupted Current

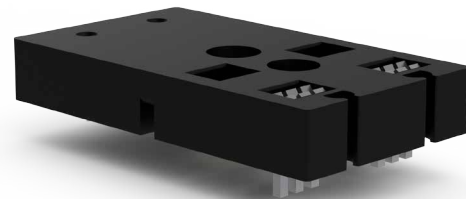
Connection Diagram



PC60 Available Options		
General		Suffix
Auxiliary Contacts	○	A
Auxiliary Contacts - V4	X	
Magnetic Blowouts†	○	B
Magnetic Blowouts - High Powered†	X	
Armature Cap	X	
Mounting Base (see overleaf)	○	
Magnetic Latching† (Not fail safe)	○	M
Closed Contact Housing†	○	
Environmentally Protected IP66‡	○	P
EE Type (Steel Shroud)	X	
Contacts		
Large Tips	X	
Textured Tips	X	
Silver Plating	X	
Washable	○	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	X	
Key: Optional ○ Standard ● Not Available X		
† Connections become polarity sensitive		
‡ Enclosed top cover standard when blowouts not fitted		
§ Not Suitable with Mounting Base		

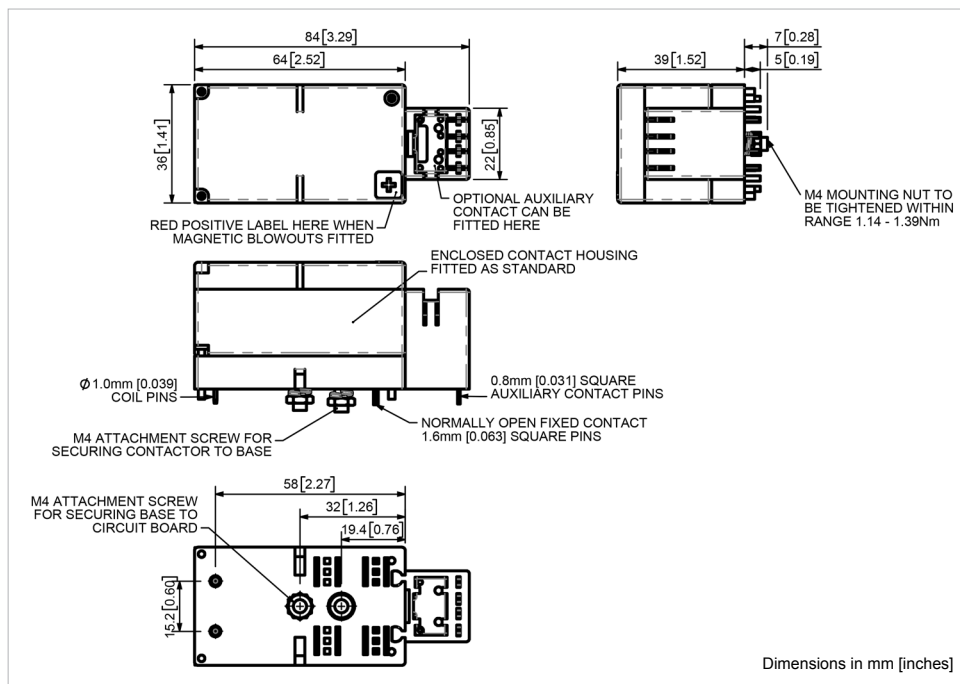
Mounting Boards

All configurations of the PC60 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.



PC60 Mounting Base

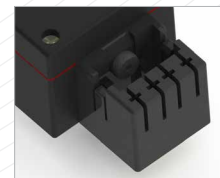
PC60 with Mounting Base Drawing



Dimensions in mm [inches]

Washable Contactors and Auxiliary Contacts (PC60AW)

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.



PC60 showing Temporary Rubber Plug

Note: The PC60AW contactors (with or without optional mounting board) are not therefore fully protected against the environment to the same degree as the PC60P.



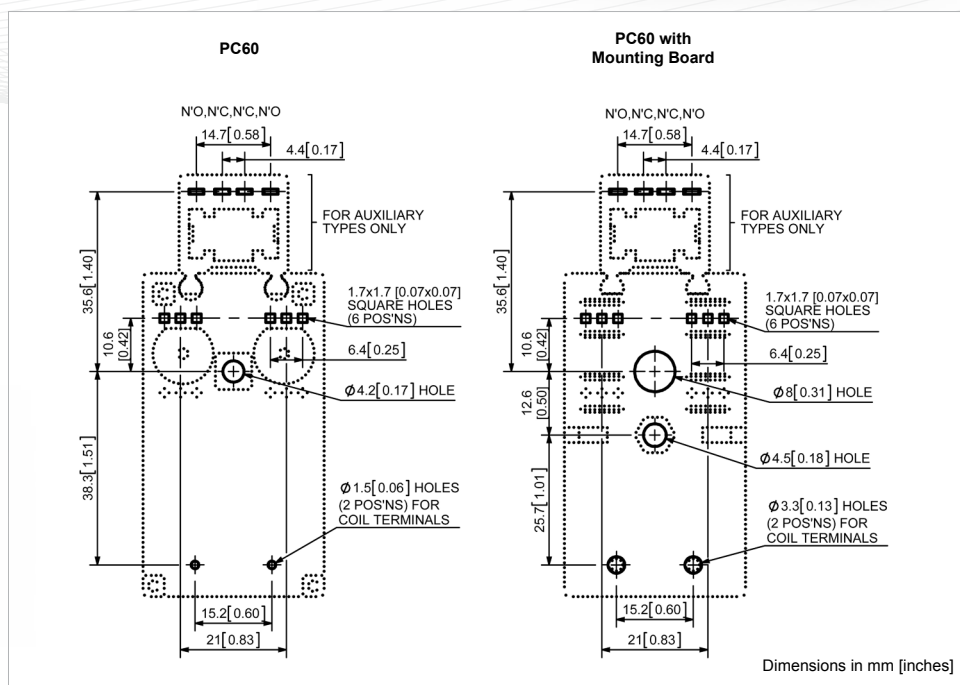
PC60 on Mounting Base

Installation

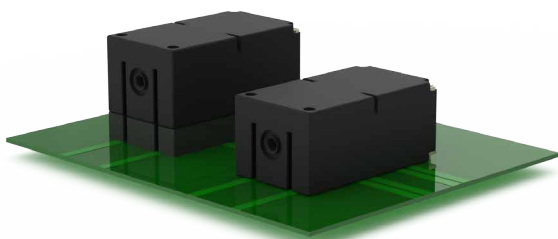
To accommodate the PC Contactors, printed circuit boards should be drilled in accordance with the mounting details opposite. Prior to soldering, the PC60 can be secured to the circuit board by means of an M4 bolt which protrudes from the underside of the contactor.

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



Dimensions in mm [inches]



PC60 with Mounting Base and PC60 on Printed Circuit Board