

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)384-65-89 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*)		
PC63		400A at 48V D.C. §
PC63B		400A at 96V D.C. §
Rated Fault Current Breaking Capacity (I _{cn}) Resistive Load: (in accordance with UL508*)		
PC63		120A at 48V D.C. §
PC63B		120A at 96V D.C. §
Maximum Recommended Contact Voltages (U _e):		
PC63	48V D.C.	60V D.C.
PC63B	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:		
PC63	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 Closed contacts are not designed to make and break current on an ongoing basis

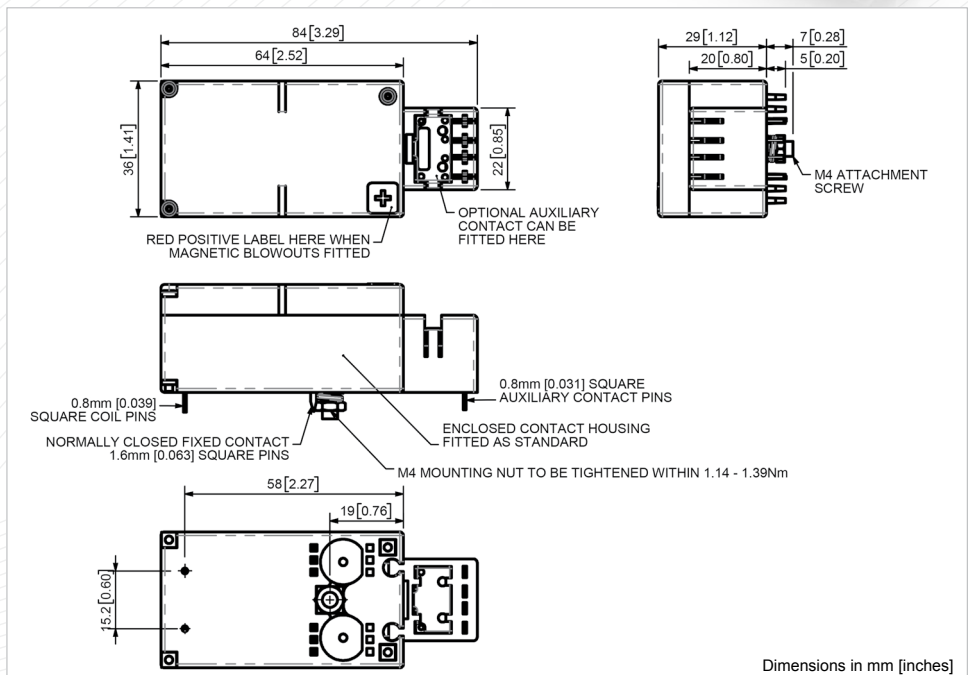
The PC63 is a miniature series single pole contactor designed for printed circuit board mounting. Devised for both interrupted and uninterrupted loads, the PC63 is suitable for switching Resistive, Capacitive and Inductive loads. Typical applications include Telecommunication, UPS and other power conversion 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).

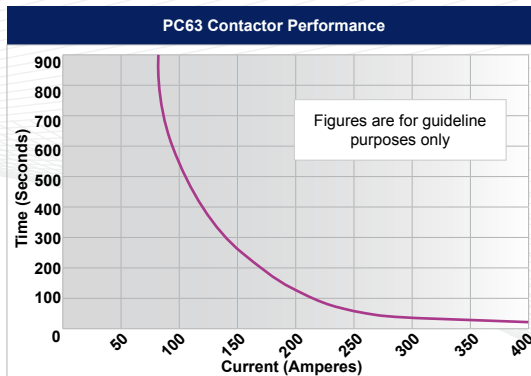
The PC63 features single pole double breaking main contacts with silver alloy tips, which are weld resistant, hard wearing and have excellent conductivity. The PC63 can be secured to the printed circuit board by means of an M4 bolt. **Note:** The PC range now incorporates the mounting board option, previously assigned to the MB range (existing MB part numbers remain valid).



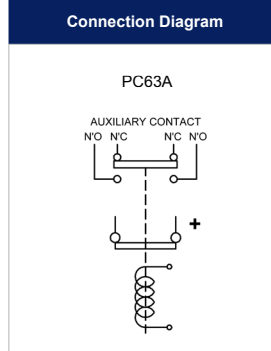
PC63



Dimensions in mm [inches]



Contact Performance Key:
— Interrupted & Uninterrupted Current



PC63 Available Options		
General		Suffix
Auxiliary Contacts	○	A
Auxiliary Contacts - V4	X	
Magnetic Blowouts†	○	B
Magnetic Blowouts - High Powered†	X	
Armature Cap	X	
Mounting Brackets	X	
Magnetic Latching† (Not fail safe)	X	
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	

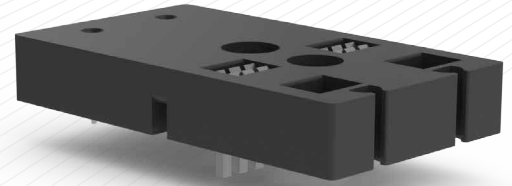
Key: ○ Optional ○ Standard ● Not Available X
 † Connections become polarity sensitive
 ‡ Enclosed top cover standard when blowouts not fitted
 § Not Suitable with Mounting Base

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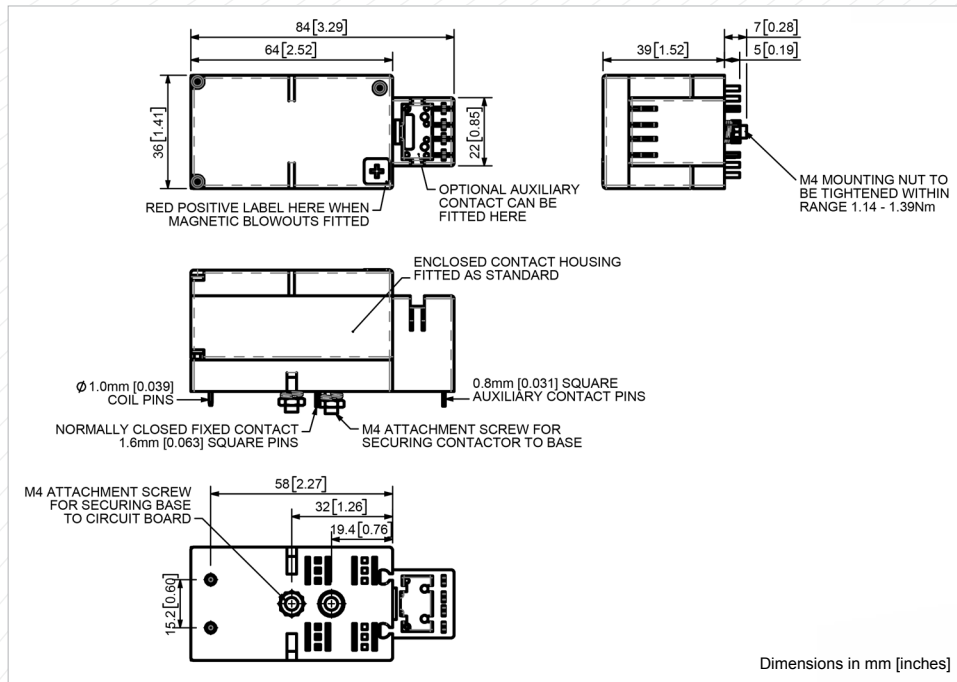
Mounting Boards

All configurations of the PC63 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.



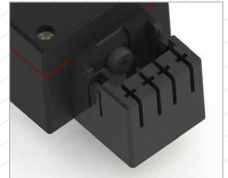
PC63 Mounting Base

PC63 with Mounting Base Drawing



Washable Contactors and Auxiliary Contacts (PC63AW)

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.



PC63 showing Temporary Rubber Plug

Note: The PC63AW contactors (with or without optional mounting board) are not therefore fully protected against the environment to the same degree as the PC63P.

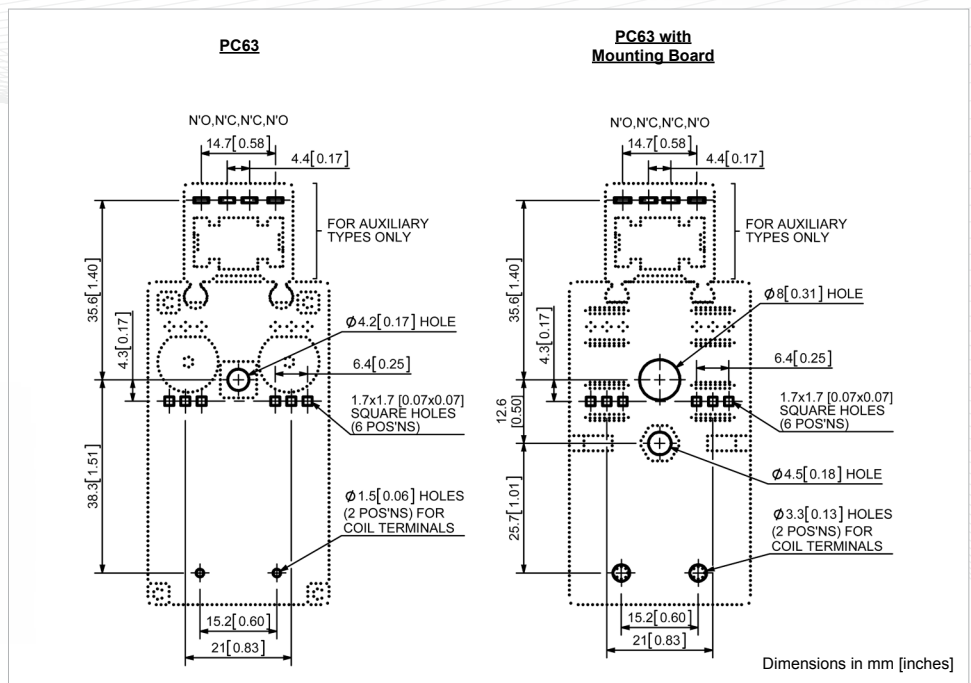


Installation

To accommodate the PC Contactors, printed circuit boards should be drilled in accordance with the mounting details opposite. Prior to soldering, the PC63 can be secured to the circuit board by means of a M4 bolt which protrudes from the underside of the contactor.

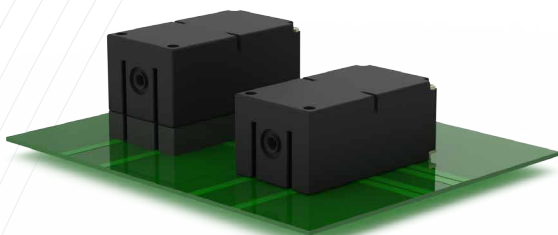
If the full current ratings of the contactors are to be utilised, circuit board tracks should have the appropriate thickness and width of copper. Conventional hand or wave soldering techniques can be used.

Mounting Detail



PC63 on Mounting Base

Dimensions in mm [inches]



PC63 with Mounting Base and PC63 mounted on Printed Circuit Board