



## Introducing P&B PBC series IEC-Type Contactors and Accessories

**THIS DATA IS FOR  
REFERENCE ONLY**  
This product family is  
being discontinued.

# P&B PBC Series IEC-Type Contactors and Accessories



**THIS DATA IS FOR  
REFERENCE ONLY**  
This product family is  
being discontinued.

## KEY FEATURES

Contactors offer three pole switching (main contacts) plus integral auxiliary contacts

Designed to snap onto DIN rail (35mm or 75mm) or mount directly to a panel with screws

Efficient 50/60 Hz. coils (50 or 60 Hz coils optional)

Finger-safe (IP 20) terminals

Modular design allows accessories and contactors to snap together

Bimetallic thermal overload relay can be added to create a starter

Coil termination permits either same side or diagonal wiring



## DESCRIPTION

Compact AC coil contactors in three frame widths offer ratings from 9 amps to 80 amps (AC-3 per IEC 947-4). Available accessories include auxiliary contact blocks for side or front mounting, thermal overload relays, timer blocks for front mounting, mechanical interlocks and more.

## APPLICATIONS

AC motor control in industrial machinery, HVAC equipment, elevators and other systems.

## MECHANICAL

9A and 12A models measure approximately 47mm wide x 75mm tall x 82mm deep, mount on 35mm DIN rail  
18A models measure approximately 47mm wide x 76mm tall x 87mm deep, mount on 35mm DIN rail  
25A models measure approximately 59mm wide x 86mm tall x 97mm deep, mount on 35mm DIN rail  
32A models measure approximately 59mm wide x 86mm tall x 102mm deep, mount on 35mm DIN rail  
40A, 50A and 65A models measure approximately 79mm wide x 128mm tall x 116mm deep, mount on 75mm DIN rail  
80A models measure approximately 87mm wide x 128mm tall x 127mm deep, mount on 75mm DIN rail

## STANDARDS AND SPECS

Designed to comply with IEC EN60947-4-1 and EN60947-5-1; UL508; CSA C22.2 No. 14  
UL Listed for the US and Canada, File E38802 (PBC series) and File E60363 (PBO series).  
Note: 18A models of the PBC series and some models of the PBO series (PBO-32A2836, PBO-65A4865, PBO-65A5570 and PBO-80A6380) are still to be submitted for UL evaluation.  
CE marked

## ELECTRICAL

Contactor	9A Model	12A Model	18A Model	25A Model	32A Model	40A Model	50A Model	65A Model	80A Model
Contact Arrangement	3PST-NO-DM + NO or NC aux.					3PST-NO-DM + NO and NC aux.			
Main Contact Rating (AC-3) @ 380VAC	9A	12A	18A	25A	32A	40A	50A	65A	80A
Auxiliary Contact Rating @ 240VAC	10A	10A	10A	10A	10A	10A	10A	10A	10A
Expected Electrical Life	1 x 10 <sup>6</sup>	1 x 10 <sup>6</sup>	1 x 10 <sup>6</sup>	1 x 10 <sup>6</sup>	8 x 10 <sup>5</sup>	8 x 10 <sup>5</sup>	6 x 10 <sup>5</sup>	6 x 10 <sup>5</sup>	6 x 10 <sup>5</sup>
Nominal Coil Power	9.4VA	9.4VA	9.4VA	11VA	11VA	32VA	32VA	32VA	32VA

## PRODUCT OFFERING

Product offering includes PBC series contactors, PBO series overload relays and PBA series auxiliary switch blocks for side or front mounting, PBT series timer blocks for front mounting, mechanical interlocks and more.

# P&B PBC Series IEC-Type Contactors and Accessories

## PBC SERIES CONTACTORS

Typical Part Number >		PBC	— 009	A	1	— B7
Series:		PBC = IEC Contactors with Integral Auxiliary Switch				
Main Contact Rating (AC-3):		009 = 9A    012 = 12A    018 = 18A    025 = 25A    032 = 32 A 040 = 40A    050 = 50A    065 = 65A    080 = 80A				
Main Contact Arrangement & Termination:		A = 3 Form X (3PST-NO-DM) with screw clamps				
Integral Auxiliary Switch Form:		1 = 1 NO (9-32A models only)    2 = 1 NC (9-32A models only)    3 = 1 NO + 1 NC (40-65A models only)				
Coil Voltage:		B7 = 24V 50/60 Hz    E7 = 48V 50/60 Hz    F = 110V 50 / 120V 60 Hz (40-80A models) F7 = 110-120V 50/60Hz (9-32A models)    M = 220V 50 Hz / 240V 60 Hz (40-80A models)    M7 = 220-240V 50/60 Hz (9-32A models) Q = 380V 50 HZ / 415V 60 Hz				

## PBO SERIES THERMAL OVERLOAD RELAYS

Typical Part Number >		PBO	— 09	P1016
Series:				
PBO = Thermal Overload Relays for use with PBC Series Contactors				
Contactor Size (Main Contact Rating of Contactor):				
09 = 9 - 32A	12 = 12 - 32A	18 = 18 - 32A	25 = 25 - 32 A	32 = 32A
40 = 40 - 80A	50 = 50 - 80A	65 = 65 - 80A	80 = 80A	
Overload Relay Rating (Amps):				
For this size...	These ratings are available...			
9-32A contactors:	P1016 = 0.1 to 0.16	P4063 = 0.4 to 0.63	D1625 = 1.6 to 2.5	D5580 = 5.5 to 8.0
	P1625 = 0.16 to 0.5	P6310 = 0.63 to 1.0	D2540 = 2.5 to 4.0	A0710 = 7.0 to 10.0
	P2540 = 0.25 to 0.4	D1016 = 1.0 to 1.6	D4060 = 4.0 to 6.0	A0913 = 9.0 to 13.0
12-32A contactors:	A0913 = 9.0 to 13.0			
18-32A contactors:	A1218 = 12.0 to 18.0			
25-32A contactors:	A1725 = 17.0 to 25.0			
32A contactors:	A2332 = 23.0 to 32.0	A2836 = 28.0 to 36.0		
40-80A contactors:	A2332 = 23.0 to 32.0	A3040 = 30.0 to 40.0		
50-80A contactors:	A3750 = 37.0 to 50.0			
65-80A contactors:	A4865 = 48.0 to 65.0	A5570 = 55.0 to 70.0		
80A contactors:	A6380 = 63.0 to 80.0			

**THIS DATA IS FOR  
REFERENCE ONLY**  
This product family is  
being discontinued.

All charts shown at right reflect our initial product offering. Please consult factory regarding other available options and accessories.

NOTE: All part numbers are RoHS compliant.

## PBA SERIES AUXILIARY SWITCH BLOCKS

Part Number	Number of NO Contacts	Number of NC Contacts	Mounting Location	Part Number	Number of NO Contacts	Number of NC Contacts	Mounting Location
PBA-01A	0	1	Front of Contactor	PBA-31A	3	1	Front of Contactor
PBA-10A	1	0	Front of Contactor	PBA-13A	1	3	Front of Contactor
PBA-11A	1	1	Front of Contactor	PBA-40A	4	0	Front of Contactor
PBA-02A	0	2	Front of Contactor	PBA-04A	0	4	Front of Contactor
PBA-20A	2	0	Front of Contactor	PBA-11B	1	1	Side of Contactor
PBA-22A	2	2	Front of Contactor	PBA-20B	2	0	Side of Contactor

## PBT SERIES TIMER BLOCKS

Part Number	Timing Function	Timing Range	Part Number	Timing Function	Timing Range
PBT-220	Delay on Make	0.1 - 3 sec	PBT-320	Delay on Break	0.1 - 3 sec
PBT-222	Delay on Make	0.1 - 30 sec	PBT-322	Delay on Break	0.1 - 30 sec
PBA-11A	Delay on Make	10 - 180 sec	PBT-324	Delay on Break	10 - 180 sec

Note: Specifications and availability are subject to change without notice. Consult data sheet 1-1773450-4 for detailed specifications.

## FOR MORE INFORMATION

### Technical Support

Internet:	<a href="http://www.tycoelectronics.com">www.tycoelectronics.com</a>
E-mail:	<a href="mailto:newproducts@tycoelectronics.com">newproducts@tycoelectronics.com</a>
USA:	1-800-522-6752
Canada:	1-905-470-4425
Mexico:	52-55-1106-0800
C. America:	57-1-254-4444
South America:	55-11-2103-6000
Hong Kong:	852-2735-1628
Japan:	81-44-844-8013
UK:	44-208-420-8341

## THIS DATA IS FOR REFERENCE ONLY

This product family is  
being discontinued.

PDF Revised 8-17-11

**Tyco Electronics Corporation**  
Harrisburg, PA

[tycoelectronics.com](http://tycoelectronics.com)

Copyright 2008 By Tyco Electronics Corporation  
1-1773450-3—0.0M—KRG/PDF 04-08

P&B Potter & Brumfield, the TE logo and Tyco Electronics are trademarks.



**Tyco Electronics**  
Our commitment. Your advantage.

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

## TE Connectivity:

[PBC-012A1E7](#) [PBC-032A2F7](#) [PBC-009A2E7](#) [PBC-025A2B7](#) [PBC-032A2B7](#) [PBC-012A1M7](#) [PBC-012A2M7](#) [PBC-032A1F7](#) [PBC-032A1E7](#) [PBC-050A3B7](#) [PBC-012A1B7](#) [PBC-025A1Q](#) [PBC-050A3Q](#) [PBC-009A2M7](#) [PBC-012A1Q](#) [PBC-032A1M7](#) [PBC-012A1F7](#) [PBC-032A1Q](#) [PBC-050A3M](#) [PBC-080A3Q](#) [PBC-009A1B7](#) [PBC-080A3F](#) [PBC-032A2Q](#) [PBC-012A2B7](#) [PBC-032A2M7](#) [PBC-065A3B7](#) [PBC-025A2Q](#) [PBC-080A3M](#) [PBC-050A3F](#) [PBC-050A3E7](#) [PBC-009A1F7](#) [PBC-080A3E7](#) [PBC-012A2F7](#) [PBC-040A3F](#) [PBC-025A1F7](#) [PBC-009A2Q](#) [PBC-080A3B7](#) [PBC-009A2B7](#) [PBC-012A2E7](#) [PBC-065A3M](#) [PBC-032A2E7](#) [PBC-040A3B7](#) [PBC-032A1B7](#) [PBC-065A3F](#) [PBC-040A3Q](#) [PBC-025A2F7](#) [PBC-009A1Q](#) [PBC-065A3Q](#) [PBC-065A3E7](#) [PBC-025A2E7](#) [PBC-040A3M](#) [PBC-009A1M7](#) [PBC-025A1M7](#) [PBC-025A2M7](#) [PBC-009A2F7](#) [PBC-025A1B7](#) [PBC-025A1E7](#) [PBC-040A3E7](#) [PBC-012A2Q](#)