

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



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



#### **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

### RoHS Ready

#### **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

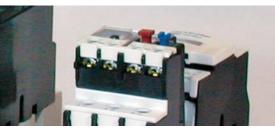
#### **ELECTRICAL**

Contactor	9A Model	12A Model	18A Model	25A Model	32A Model	40A Model	50A Model	65A Model	80A Model
Contact Arrangement	ontact Arrangement 3PST-NO-DM + NO or NC aux.			3PS	T-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 10⁵	6 x 10⁵	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.







#### **PBC SERIES CONTACTORS**

Typical Part Number > PBC -009Series: PBC = IEC Contactors with Integral Auxiliary Switch Main Contact Rating (AC-3): 009 = 9A012 = 12A025 = 25A032 = 32 A080 = 80A050 = 50A040 = 40A065 = 65AMain Contact Arrangement & Termination: A = 3 Form X (3PST-NO-DM) with screw clamps Integral Auxiliary Switch Form:

1 = 1 NO (9-32A models only) Coil Voltage:

B7 = 24V 50/60 Hz E7 = 48V 50/60 Hz

F7 = 110-120V 50/60Hz (9-32A models) M = 220V 50 Hz / 240V 60 Hz (40-80A models)

F = 110V 50 / 120V 60 Hz (40-80A models) M7 = 220-240V 50/60 Hz (9-32A models)

3 = 1 NO + 1 NC (40-65 A models only)

Q = 380V 50 HZ / 415V 60 Hz

#### PBO SERIES THERMAL OVERLOAD RELAYS

2 = 1 NC (9-32A models only)

Typical Part Number >			> PI	30	- 09		P1016
Series:		<u></u>					
PBO = Thermal Overloa	ad Relays for use with P	BC Series Contacto	ors				
Contactor Size (Main Co	ontact Rating of Contacto	or):					
09 = 9 - 32A	12 = 12 - 32A	18 = 18 - 32A	25 = 25 - 32 A		32 = 32A		
40 = 40 - 80A	50 = 50 - 80A	65 = 65 - 80A	A08 = 08				
Overload Relay Rating	(Amps):						
For this size	These ratings	are available					
9-32A contactors:	P1016 = 0.1 to	0.16 P40	63 = 0.4 to 0.63	D1625 = 1.6	to 2.5	D558	0 = 5.5 to 8.0
	P1625 = 0.16 t	0.5 P63	10 = 0.63 to 1.0	D2540 = 2	5 to 4.0	A0710	) = 7.0 to 10.0
	P2540 = 0.25	to 0.4 D101	16 = 1.0 to 1.6	D4060 = 4	.0 to 6.0	A091	3 = 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 A28	36 = 28.0 to 36.0				
40-80A contactors:	A2332 = 23.0	to 32.0 A30	40 = 30.0 to 40.0				
50-80A contactors:	A3750 = 37.0 f	o 50.0					
65-80A contactors:	A4865 = 48.0	to 65.0 A55	70 = 55.0 to 70.0				
80A contactors:	A6380 = 63.0	to 80.0					

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.

Part	Number of	Number of	Mounting
Number	NO Contacts	NC Contacts	Location
PBA-01A	0	1	Front of Contactor
PBA-10A	1	0	Front of Contactor
PBA-11A	1	1	Front of Contactor
PBA-02A	0	2	Front of Contactor
PBA-20A	2	0	Front of Contactor
PBA-22A	2	2	Front of Contactor

PBA SERIES AUXILIARY SWITCH BLOCKS

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

#### **PBT SERIES TIMER BLOCKS**

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

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

Part Number	Timing Function	Timing Range
PBT-320	Delay on Break	0.1 - 3 sec
PBT-322	Delay on Break	0.1 - 30 sec
PBT-324	Delay on Break	10 - 180 sec

#### FOR MORE INFORMATION

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