

March 2006
Aftermarket Solutions, Ref. No. [045]

Types PB and PBF

Replacement Capabilities (Continued)

Table 3-78. Type PB 600 – 2500 Amperes, 600 Volts, 60 Cycle ac ①, 250 Vdc ②, 2- and 3-Poles, Interchangeable Trip

Shaded gray area denotes obsolete or discontinued products and services. ③

Continuous Ampere Rating at 40°C	Magnetic Trip Setting, Amperes ④⑤		Complete Breaker	Shipped as Frame, Trip Unit and Rear Connectors	
	Low	High	Includes Bus Bar Connectors ⑥	Frame Only	Trip Unit Only
			Catalog Number		

2-Poles, 600 Vac Only ⑦

600	1500	5000	PB2600	PB22500F	PB2600T
700	1500	5000	PB2700	PB22500F	PB2700T
800	1500	5000	PB2800	PB22500F	PB2800T
900	1500	5000	PB2900	PB22500F	PB2900T
1000	1500	5000	PB21000	PB22500F	PB21000T
1200	2000	6000	PB21200	PB22500F	PB21200T
1400	2500	7000	PB21400	PB22500F	PB21400T
1600	3000	8000	PB21600	PB22500F	PB21600T
1800	3000	8000	PB21800	PB22500F	PB21800T
2000	3000	8000	PB22000	PB22500F	PB22000T
Approx. ship. wt.			132 lbs.	98 lbs.	18 lbs.
2500	3000	8000	PB22500	PB22500F	PB22500T
Approx. ship. wt.			144 lbs.	98 lbs.	18 lbs.

3-Poles, 600 Vac Only

600	1500	5000	PB3600	PB32500F	PB3600T
700	1500	5000	PB3700	PB32500F	PB3700T
800	1500	5000	PB3800	PB32500F	PB3800T
900	1500	5000	PB3900	PB32500F	PB3900T
1000	1500	5000	PB31000	PB32500F	PB31000T
1200	2000	6000	PB31200	PB32500F	PB31200T
1400	2500	7000	PB31400	PB32500F	PB31400T
1600	3000	8000	PB31600	PB32500F	PB31600T
1800	3000	8000	PB31800	PB32500F	PB31800T
2000	3000	8000	PB32000	PB32500F	PB32000T
Approx. ship. wt.			155 lbs.	108 lbs.	23 lbs.
2500	3000	8000	PB32500	PB32500F	PB32500T
Approx. ship. wt.			173 lbs.	108 lbs.	23 lbs.

- ① Higher frequency calibration not available. Minimum of 50 Hz calibration available on special order.
- ② Available only on magnetic only breakers.
- ③ These frames are obsolete. For replacement solutions see the cross-reference on Pages 3-97 – 3-118.
- ④ Higher magnetic trip settings are available as special calibration. Refer to magnetic only breakers for specific trip ranges.
- ⑤ Set on high side, adjustable to lower limits.
- ⑥ Shipped separately from breaker.
- ⑦ 2-pole breakers are supplied in 3-pole frames with current carrying parts omitted from center pole.

Table 3-79. Type PBF Front Connected 600 – 2000 Amperes, 600 Volts, 60 Cycle ac ①, 250 Vdc ②, 2- and 3-Poles, Interchangeable Trip

Shaded gray area denotes obsolete or discontinued products and services. ③

Continuous Ampere Rating at 40°C	Magnetic Trip Setting, Amperes (Set on High Side, Adjustable to Lower Limits)		Complete Breaker	Shipped As:	
	Low	High	Includes Bus Bar Connectors ⑥	Frame Only Includes Bus Bar Connectors ⑥	Trip Unit Only
			Catalog Number		

2-Pole, 600 Vac ⑦

600	1500	5000	PBF2600	PBF22000F	PBF2600T
700	1500	5000	PBF2700	PBF22000F	PBF2700T
800	1500	5000	PBF2800	PBF22000F	PBF2800T
900	1500	5000	PBF2900	PBF22000F	PBF2900T
1000	1500	5000	PBF21000	PBF22000F	PBF21000T
1200	2000	6000	PBF21200	PBF22000F	PBF21200T
1400	2500	7000	PBF21400	PBF22000F	PBF21400T
1600	3000	8000	PBF21600	PBF22000F	PBF21600T
1800	3000	8000	PBF21800	PBF22000F	PBF21800T
2000	3000	8000	PBF22000	PBF22000F	PBF22000T

3-Pole, 600 Vac

600	1500	5000	PBF3600	PBF32000F	PBF3600T
700	1500	5000	PBF3700	PBF32000F	PBF3700T
800	1500	5000	PBF3800	PBF32000F	PBF3800T
900	1500	5000	PBF3900	PBF32000F	PBF3900T
1000	1500	5000	PBF31000	PBF32000F	PBF31000T
1200	2000	6000	PBF31200	PBF32000F	PBF31200T
1400	2500	7000	PBF31400	PBF32000F	PBF31400T
1600	3000	8000	PBF31600	PBF32000F	PBF31600T
1800	3000	8000	PBF31800	PBF32000F	PBF31800T
2000	3000	8000	PBF32000	PBF32000F	PBF32000T

- ① Higher frequency calibration not available. Minimum of 50 Hz calibration available on special order.
- ② Available only on magnetic only breakers.
- ③ These frames are obsolete. For replacement solutions see the cross-reference on Pages 3-97 – 3-118.
- ④ Included with frame.
- ⑤ 2-pole breakers are supplied in 3-pole frames with current carrying parts omitted from center pole.



Rear Connected PB Breaker: 600 Vac



PBF Front Connected: 600 Vac

Types PB and PBF Accessories and Modifications

Replacement Capabilities (Continued)

Types PB and PBF Accessories and Modifications

Table 3-80. Special Breakers ① **Magnetic Only, Front Adjustable** ② **Trip Unit Only**

■ **Shaded gray area denotes obsolete or discontinued products and services.** ③

Continuous Ampere Rating	Magnetic Trip Range, Amperes ④		2-Poles ⑤	3-Poles
	Low	High	Catalog Number	

For Rear Connected Type PB Breakers

2000	1500	5000	PB25000TM	PB35000TM
2000	2000	6000	PB26000TM	PB36000TM
2000	2500	7000	PB27000TM	PB37000TM
2000	3000	8000	PB28000TM	PB38000TM
2000	3500	10000	PB210000TM	PB310000TM
2000	4000	12000	PB212000TM	PB312000TM
2500	4000	12000	373D488G08	373D488G09

For Front Connected Type PBF Breakers

2000	1500	5000	PBF25000TM	PBF35000TM
2000	2000	6000	PBF26000TM	PBF36000TM
2000	2500	7000	PBF27000TM	PBF37000TM
2000	3000	8000	PBF28000TM	PBF38000TM
2000	3500	10000	PBF210000TM	PBF310000TM
2000	4000	12000	PBF212000TM	PBF312000TM

① Not UL listed.

② Frames, connectors, dimensions and shipping weights are same as thermal magnetic breakers.

③ These frames are obsolete. For replacement solutions see the cross-reference on **Pages 3-97 – 3-118**.

④ Set on high side, adjustable to lower limits.

⑤ 2-pole breakers are supplied in 3-pole frames with current carrying parts omitted from center pole

■ **Shaded gray area denotes obsolete or discontinued products and services.**

Special Calibrations

Special calibration price additions apply to ampere ratings not listed as standard, or for ambients other than 40°C or 50°C. For frequencies other than 0 – 60 Hz ac, refer to Eaton. See Application Data 29-160 for information regarding special conditions.

Note: Not UL listed.

50°C Calibration

Add suffix "V" to catalog number for complete breaker or trip unit only, when ordering breakers to be used in 50°C ambients.

Note: Not UL listed.

Note: 50°C or higher calibration not available for 2500 ampere trip units.

For CSA, see information below.

Canadian Standards Association (CSA) Listing

Most standard thermal magnetic molded case circuit breakers listed with Underwriters Laboratories and having a UL label are also listed with CSA and may be marked with the CSA monogram.

Type PB breakers meet the requirements for Class 25a circuit breakers as defined by Federal Specification W-C-375b.

Table 3-81. UL Listed Interrupting Ratings

Maximum Volts	Amperes
240 ac	150,000 Asym., 125,000 Sym.
480 ac	115,000 Asym., 100,000 Sym.
600 ac	115,000 Asym., 100,000 Sym.
250 dc ⑥	75,000 Amperes ⑦

⑥ Not UL listed.

⑦ Based on NEMA test procedure.

For all 3-phase Delta, grounded B phase applications, contact Avery Creek, NC Technical Resource Center, **1-800-356-1243**.

Magnetic Only Breakers

To order a complete breaker, select trip unit, plus frame and connectors.

Note: Not UL listed.

Bus Bar Connections

Bus Bar Connections "T" Connector (For Cu/Al Bus)



"T" Connector

Two required per pole. For rear bus connection of breakers through 2000 amperes. Accepts up to four bus bolts. May be rotated 90°.

Note: Shipped separately from breaker.

Table 3-82. Bus Bar Connections — "T" Connector (For Cu/Al Bus)

Catalog Number
BA2000PB

"C" Connector (For Cu/Al Bus)



"C" Connector

Two required per pole. For rear bus connection of 2500 ampere breakers.

Table 3-83. "C" Connector (For Cu/Al Bus)

Breaker Amperes	Catalog Number
2500	BA2500PB

Cable Connector



Cable Connector

Fits "T" Connector and 2000 ampere front connected breakers. Accepts four 400 – 600 kcmil copper cables.

Table 3-84. Cable Connector

Catalog Number
505C706G04

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Cross-Reference — Replacement Breaker and Mining Breaker Replacement

Replacement Capabilities (Continued)

Notes for Replacement Breaker and Mining Breaker Replacement Tables (Pages 3-98 – 3-118)

1. Many of the suggested Series C replacements are electrical replacements only, and may have different dimensions, mountings, handle forces and throw (which would require a handle mechanism change). The MARK 75 replacement would have the same dimensions, mountings, handle forces and throw. Only 3-pole MARK 75 available.
2. Replacement breaker frames, trips, plugs and some of the terminals and attachments are not interchangeable with the Series C. Obsolete Frames and Trips, etc., may require a complete breaker change.
3. Replacing with a Higher IC MARK 75 or Series C breaker does not increase the IC rating of the assembly (panelboard, switchboard, etc.).
4. Saf-T-Vue is no longer available on the replacement breaker line. Eaton Canada does make the Series C with Saf-T-Vue and may be sourced through our **Canadian Distribution Center** (Phone: 905-631-4318).
5. Suggested replacements also apply to breakers that had suffixes such as "L," line and load terminals, "V" 50C calibration and "W" without terminals.
6. The HFB 2-pole breaker is on a 3-pole frame. The Series C replacement is a true 2-pole.
7. Continuous amperes and/or trip range may be a little different on the replacement Series C.
8. Replacement breaker MARK 75 breakers with interchangeable trip units are to be supplied as frame, trip, terminals, and attachment as separate items (except when accessories must be factory installed). No single-phase, ambient compensated, Saf-T-Vue, reverse feed, or SELTRONIC magnetic only, are available on replacement breakers.
9. JA, DA, KA, HKA, LB, LBB and HLB breakers when replaced with a Series C breaker "K" frame, when bussed on the line side such as a panelboard, requires a TAD3 spacer kit.
10. Contact the local Eaton Satellite for complete panelboard replacement or new interior replacement. Use Panelboard Replacement Breakers where possible. MARK 75 and 3-pole only replacements are available. Contact the **Breaker Service Center** at **1-877-275-7782** for reconditioned breaker solutions.

Note: If accessories are to be factory installed, contact the factory for pricing.