



REPLACEMENT CAPABILITIES, *Continued*

Type NB 700-1200 Amperes, 600 Volts, 60 Hz AC, 250 Volts DC, 2- and 3-Poles, Interchangeable Trip

Continuous Ampere Rating at 40°C	Magnetic Trip Setting, Amperes ^②		Complete Breaker			Shipped as Frame, Trip Unit and Terminals ^④			
	Low	High	Includes Pressure Type Copper Terminals ^⑤			Frame Only			Trip Unit Only
			Standard	Saf-T-Vue [®]	MARK 75 [®]	Standard	Saf-T-Vue [®]	MARK 75 [®]	Standard Saf-T-Vue [®] , MARK 75 [®]
Catalog Numbers									
2-Poles, 600 Volts AC, 250 Volts DC^⑥									
700	3000	6000	NB2700	NB2700S	HNB2700	NB21200F	NB21200FS	HNB21200F	HNB2700T
800	3000	6000	NB2800	NB2800S	HNB2800	NB21200F	NB21200FS	HNB21200F	HNB2800T
900	4000	8000	NB2900	NB2900S	HNB2900	NB21200F	NB21200FS	HNB21200F	HNB2900T
1000	4000	8000	NB21000	NB21000S	HNB21000	NB21200F	NB21200FS	HNB21200F	HNB21000T
1200	4000	8000	NB21200	NB21200S	HNB21200	NB21200F	NB21200FS	HNB21200F	HNB21200T
Approx. ship. wt. 43 lbs.					Approx. ship. wt. 29 lbs.			Approx. ship. wt. 3½ lbs.	
3-Poles, 600 Volts AC Only									
700	3000	6000	NB3700	NB3700S	HNB3700	NB31200F	NB31200FS	HNB31200F	HNB3700T
800	3000	6000	NB3800	NB3800S	HNB3800	NB31200F	NB31200FS	HNB31200F	HNB3800T
900	4000	8000	NB3900	NB3900S	HNB3900	NB31200F	NB31200FS	HNB31200F	HNB3900T
1000	4000	8000	NB31000	NB31000S	HNB31000	NB31200F	NB31200FS	HNB31200F	HNB31000T
1200	4000	8000	NB31200	NB31200S	HNB31200	NB31200F	NB31200FS	HNB31200F	HNB31200T
Approx. ship. wt. 51 lbs.					Approx. ship. wt. 32 lbs.			Approx. ship. wt. 4 lbs.	



NB, 600 Volts AC; 250 Volts DC

Accessories and Modifications

Magnetic Only Breakers, Front Adjustable^③

Continuous Ampere Rating	Magnetic Trip Range ^③		Trip Unit Only	
	Low	High	2-Poles ^⑥	3-Poles
			Catalog Numbers	
1200	3000	6000	HNB26000TM	HNB36000TM
1200	4000	8000	HNB28000TM	HNB38000TM
1200	5000	10000	HNB210000TM	HNB310000TM
1200	6000	12000	HNB212000TM	HNB312000TM

Magnetic Only Breakers^⑦

For description, refer to Application Data 29-160. To order a complete breaker, select trip unit, plus frame and terminals.

Special Calibrations^⑧

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 (50 Hz AC minimum - 60 Hz AC maximum for ratings of 700 amperes and above), refer to Cutler-Hammer. See Application Data 29-160 for additional information regarding special conditions. Maximum 400 Hz calibration for type MA is 475 amperes.

50°C Calibration^⑨

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

For CSA, see page 41.

Type NB breakers meet requirements for Class 21a circuit breakers, and Type HNB meet requirements for class 23a, as defined by Federal Specification W-C-375b.

Underwriters' Laboratories, Inc. listed Interrupting Ratings:

Max. Volts	Amperes
Standard Breakers	
240 VAC	50,000 Asym., 42,000 Sym.
480 VAC	35,000 Asym., 30,000 Sym.
600 VAC	25,000 Asym., 22,000 Sym.
250 VDC ^⑩	20,000 ^⑪
MARK 75[®] Breakers	
240 VAC	75,000 Asym., 65,000 Sym.
480 VAC	40,000 Asym., 35,000 Sym.
600 VAC	30,000 Asym., 25,000 Sym.
250 VDC ^⑩	20,000 ^⑪

For all 3-phase Delta, grounded B phase applications, contact your local Cutler-Hammer Field Sales Office.

Terminals^⑫

Two terminals are required per pole.

Terminals are Underwriters' Laboratories, Inc. listed for wire type and range listed below. When used with aluminum conductors, use joint compound. To order optional copper terminals, add suffix "C" to complete breaker catalog number.





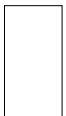

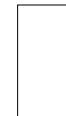

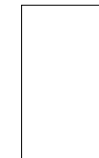


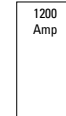




Max. Amps	Catalog Number	No. of Cables, Wire Range, Type,
Standard Al/Cu Pressure Terminals		
1000	TA1000NB1	(3) 3/0-400 MCM Al/Cu
1200	TA1200NB1	(4) 4/0-500 MCM Al/Cu
Optional Copper or Al/Cu Pressure Terminals		
1000	T1000NB1	(3) 3/0-500 MCM Cu
1200	T1200NB1	(4) 3/0-400 MCM Cu
1200	TA1201NB1	(3) 500-750 MCM Al/Cu

Additional Accessories and Modifications
Refer to pages 58-68.

① Higher frequency calibration not available. Minimum of 50 Hz calibration available on special order.
 ② 250 volt DC rating applied only to magnetic only type breakers.
 ③ Set on high side, adjustable to lower limits.
 ④ Terminals shipped separately from breaker.
 ⑤ 2-pole breakers supplied in 3-pole frames with current carrying parts omitted from center pole.
 ⑥ Frames, terminals, studs, mounting hardware, dimensions and shipping weights are same as standard thermal magnetic breakers.
 ⑦ Not listed with Underwriters' Laboratories, Inc.
 ⑧ Ratings above 10,000 amperes not UL listed.



MOLDED CASE CIRCUIT BREAKER REPLACEMENT GUIDE

Series C Industrial Circuit Breakers																
Maximum Amperes		800A			800A			1200A			1600A/2000A/2500A [Ⓢ]					
CURRENT DESIGN	Series C Circuit Breakers are Cutler-Hammer's most current offering and, as such, are a logical first choice when upgrading or retrofitting equipment.	MD, MDS			ND, HND, NDC			ND, HND, NDC			RD					
	All circuit breakers listed in a column are ELECTRICALLY INTERCHANGEABLE .															
Dimensions – Inches Per 3-pole Breaker																
		W	H	D	W	H	D	W	H	D	W	H	D			
		8¼	16	4½	8¼	16	5½	8¼	16	5½	15½	16	9¼			
Replacement Circuit Breakers																
REPLACEMENT	These new, UL labeled circuit breakers continue to be manufactured and are primarily applied to achieve exact physical and electrical replacement of previously installed Cutler-Hammer/Westinghouse circuit breakers of the same style number and rating.	MA, HMA and MC			MA, HMA and MC, MCC SELTRONIC			NC, HNC and NB, HNB			PC, PCC			PB		
																
		W	H	D	W	H	D	W	H	D	W	H	D	W	H	D
		8¼	16	4½	8¼	16	4½	8¼	16	5½	12½	22½	9½	12½	22½	9½
Out-of-Production Westinghouse Circuit Breakers																
OUT OF PRODUCTION	These circuit breakers are no longer manufactured.	LM, HLM and M			LM, HLM and M			MA, HMA			LM, HLM			PA		
	* Indicates the last date of manufacture. As an option, any of these circuit breakers can be reconditioned at the original factory by Cutler-Hammer. For details, see page 8, or contact your local Cutler-Hammer Field Sales Office.															
		W	H	D	W	H	D	W	H	D	W	H	D	W	H	D
		8¼	22	5½	8¼	22	5½	8¼	16	5½	8¼	22	5½	12	22	9½
		*1967			*1967			*1968			*1967			*1968		
		SPCB 1200A, SCB 1200A *1986 Consult Cutler-Hammer			SPCB 1200A, SCB 1200A *1986 Consult Cutler-Hammer			SPCB 2000-3000A, SCB 2000-3000A *1986 Consult Cutler-Hammer			SPCB 2000-3000A, SCB 2000-3000A *1986 Consult Cutler-Hammer			SPCB 2000-3000A, SCB 2000-3000A *1986 Consult Cutler-Hammer		
		W	H	D	W	H	D	W	H	D	W	H	D	W	H	D
		8¼	16	5½	8¼	16	5½	8¼	16	5½	12½	22½	9½	12½	22½	9½
Out-of-Production Cutler-Hammer Circuit Breakers Last Manufactured by Cutler-Hammer in 1994																
OUT OF PRODUCTION		MS, MH			NS, NH			No Equivalent Cutler-Hammer Brand Frame Size Existed			No Equivalent Cutler-Hammer Brand Frame Size Existed					
																
		W	H	D	W	H	D									
		8¼	16	4½	8¼	16	5½									

Ⓢ RD Breaker replaces PC, PCC and PB Breakers for 2000A and 2500A only.



MOLDED CASE CIRCUIT BREAKERS

Replacement Circuit Breakers

A

REPLACEMENT CAPABILITIES, *Continued*

Type PB and PBF Accessories and Modifications

Special Breakers^① Magnetic Only, Front Adjustable^② Trip Unit Only

Contin- uous Ampere Rating	Magnetic Trip Range, Amperes ^③		2-Poles ^④	3-Poles
	Low	High		
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

Magnetic Only Breakers^⑤
For description, refer to Application Data 29-160. To order a complete breaker, select trip unit, plus frame and connectors.

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

Underwriters' Laboratories, Inc. Listed Interrupting Ratings

Max. 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 ^⑥

For all 3-phase Delta, grounded B phase applications, contact your local Cutler-Hammer Field Sales Office.

Special Calibrations^⑦
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 Cutler-Hammer. See Application Data 29-160 for information regarding special conditions.

50°C Calibration^⑧
Add suffix "V" to catalog number for complete breaker or trip unit only, when ordering breakers to be used in 50°C ambients.

For CSA, see information below.

Canadian Standards Association (CSA) Listing
Most standard thermal magnetic molded case circuit breakers listed with Underwriters' Laboratories, Inc., and having a UL label are also listed with CSA and may be marked with the CSA monogram.

Bus Bar Connections^⑦



Bus Bar Connections^⑦ "T" Connector (For Cu/Al Bus)
Two required per pole. For rear bus connection of breakers thru 2000 amperes. Accepts up to four bus bolts. May be rotated 90°.

Catalog Number
BA2000PB



"C" Connector (For Cu/Al Bus)
Two required per pole. For rear bus connection of 2500 ampere breakers.

Breaker Amperes	Catalog Number
2500	BA2500PB



Cable Connector
Fits "T" Connector and 2000 ampere front connected breakers. Accepts four 400-600 MCM copper cables.

Catalog Number
505C706G04

① Not listed with Underwriters' Laboratories, Inc.
 ② Frames, connectors, dimensions and shipping weights are same as thermal magnetic breakers.
 ③ Set on high side, adjustable to lower limits.
 ④ 2-pole breakers are supplied in 3-pole frames with current carrying parts omitted from center pole.
 ⑤ Based on NEMA test procedure.
 ⑥ 50°C or higher calibration not available for 2500 ampere trip units.
 ⑦ Shipped separately from breaker.





REPLACEMENT CAPABILITIES

Molded Case Switches

Molded Case Switches are Underwriters' Laboratories, Inc. listed devices and are available only as high magnetic trip type with fixed trip setting.

Molded Case Switches with High Magnetic Trip (Fixed Trip Setting)

Switch Catalog Number ^①	No. of Poles	Max. Volts	Max. Amperes	Switch Catalog Number ^①	No. of Poles	Max. Volts	Max. Amperes
DA2400WK	2	240	400	JB2250WK	2	600	250
DA3400WK	3	240	400	JB2250WSK	2	600	250
EB1100LK	1	120	100	JB3250WK	3	600	250
EB2100LK	2	240	100	JB3250WSK	3	600	250
EB3100LK	3	240	100	KA2225WK	2	600	225
EB3100SLK	3	240	100	KA2225WSK	2	600	225
EHB1100LK	1	277	100	KA3225WK	3	600	225
EHB2100LK	2	480	100	KA3225WSK	3	600	225
EHB3100LK	3	480	100	KB2250WK	2	600	250
EHB3100SLK	3	480	100	KB2250WSK	2	600	250
FB2100LK	2	600	100	KB3250WK	3	600	250
FB2150LK	2	600	150	KB3250WSK	3	600	250
FB3100LK	3	600	100	LB2400WK	2	600	400
FB3150LK	3	600	150	LB2400WSK	2	600	400
FB3150SLK	3	600	150	LB3400WK	3	600	400
FB4100LK	4	277/480	100	LB3400WSK	3	600	400
FB4150LK	4	277/480	150	LBB2400WK	2	600	400
JA2225WK	2	600	225	LBB2400WSK	2	600	400
JA2225WSK	2	600	225	LBB3400WK	3	600	400
JA3225WK	3	600	225	LBB3400WSK	3	600	400
JA3225WSK	3	600	225				

Molded Case Switch Terminal Data

MCS Type	Max. Switch Amperes	Standard Terminals				Optional Terminals			
		Terminal Type or Cat. Number	Wire Type	No. of Wires	Wire Range	Terminal Type or Cat. Number	Wire Type	No. of Wires	Wire Range
DA, LB, LBB	400	T400DA2	Cu only	2	3/0-250 MCM
EB, EHB, FB	100 150	Pressure Pressure	Cu Cu/Al	1	#14-1/0 #4-4/0	Pressure	Cu/Al	1 ..	#4-4/0
JA, KA JB, KB	225 250	TA225LA1 TA250KB	Cu/Al Cu/Al	1 1	#4-350 MCM #4-350 MCM	T225LA T250KB	Cu Cu	1 1	#6-350 MCM #4-350 MCM

Molded Case Switches with High Magnetic Trip – Trip Setting and Tolerance

Frame	Rating	Trip Setting (Amperes)	Tolerance (%)
EB	100	1000	±20
EHB/FB	100	1200	±20
FB	150	1500	±20
DA/LB/LBB	400	4000	+10 - 0
JA/KA	225	2250	+10 - 0
JB/KB	250	2500	+10 - 0

① Catalog number suffix identification:

- K = Molded Case Switch with High Magnetic Trip (Fixed Trip Setting)
- S = Saf-T-Vue® cover
- L = With Line and Load Terminals
- W = No terminals

② Molded case switch dimensions are the same as the equivalent thermal magnetic breaker. Refer to Dimension Sheet 29-171.