



CIRCUIT BREAKER ENCLOSURES



Class I, Div. 1 & 2, Groups B, C, D
Class I, Zones 1 & 2, Groups IIB+H2, IIA
Class II, Div. 1 & 2, Groups E, F, G
Class III, Div. 1 & 2
TYPE 3, 4, 4x, 7 (B, C, D), 9 (E, F, G)

-  #UL1203-Explosion Proof and Dust-Ignition-Proof Electrical Equipment For Use In Hazardous (Classified) Locations. File #E83969 Indoor/Outdoor
-  #C22.2 NO. 30-M1986-Explosion Proof Enclosures For Use In Class I Hazardous Locations. File #LR11714

FEATURES-SPECIFICATIONS**Features**

- Copper-free, cast aluminum construction (less than 1/10 of 1%).
- High strength, lighter in weight, corrosion resistant.
- Hinged Cover is standard.
- More Wiring Room – Meets the latest NEC/CEC wire bending requirements for circuit breaker enclosures.
- Ductile Mounting Lugs – Lugs are made of ductile aluminum alloy to adjust to irregular mounting surfaces without damage to enclosure.
- Universal Mounting Pan – Sheet aluminum pan is pre-drilled to facilitate easy field installation of major circuit breaker brands. Provisions for grounding supplied as standard.
- Conduit Openings Supplied – Standard conduit openings include power conduit top and bottom and a plugged opening suitable for field installation of drain and breather.
- Special conduit openings can be supplied at factory, or can be field installed.
- Breaker Handle – Provisions for lock “ON” or “OFF” positions with up to three padlocks. Spring loaded to prevent damage of breaker toggle and provides positive handle alignment. “O” ring on shaft to prevent water seeping into enclosure.
- Recessed Flange Notches – Flanges are notched to allow for easier cover opening with prying instrument without flange damage.
- Gasketed Flange – Nitrile (BUNA-N) “O” ring gasket is located inside cover bolt circle to prevent water seeping into enclosure.
- Quick Release, Captivated Cover – Bolts of 316 Grade Stainless Steel Triple lead bolts require only 3-1/2 turns to disengage.

Materials

- Enclosure: Copper-free, cast aluminum (less than 1/10 of 1%)
- Aluminum lacquer paint finish is standard, with special epoxy finish available. See page DE6
- Cover Bolts: 316 grade stainless steel
- Mounting Pan: Sheet aluminum
- Handle Mechanism: Cast aluminum with stainless steel shaft and hardware.
- Hinges: Aluminum with stainless steel hardware.

Electrical Rating

- 600VAC, 2,3 or 4 Pole, 50/60Hz



DISTRIBUTION EQUIPMENT



B7C CIRCUIT BREAKER ENCLOSURES				
ENCLOSURE ONLY CATALOG NUMBER	WILL ACCEPT THE FOLLOWING CIRCUIT BREAKERS:			
	MANUFACTURER	FRAME SIZE	CIRCUIT BREAKER TYPE	MAX. AMP
B7CA	EATON/CUTLER HAMMER/WESTINGHOUSE	F	EHD, FDB, FD, HFD, FDC	100
	GENERAL ELECTRIC	E	TEB, TED, THED, TEL	100
	ITE - SIEMENS	ED	ED2, ED4, ED6, HED4, HED6	90
	SCHNIEDER/SQUARE D	H	HDL, HGL, HJL, FAL, FHL, FCL	100
	ABB	XT1, XT2	XT1, XT2	100
B7CB	EATON/CUTLER HAMMER/WESTINGHOUSE	F	FDB, FD, HFD, FDC	150
	GENERAL ELECTRIC	E	TEB, TED, THED, TEL	150
	ITE - SIEMENS	ED	ED2, ED4, ED6, HED4, HED6	90
	SCHNIEDER/SQUARE D	H	HDL, HGL, HJL, FAL, FHL, FCL	150
	ABB	XT3, XT4	XT3, XT4	225/250
B7CC	EATON/CUTLER HAMMER/WESTINGHOUSE	J	JD, JDB, JDC, HJD	250
	GENERAL ELECTRIC	F	TFJ, TFK, THFK, TFL	225
	SCHNIEDER/SQUARE D	J	JDL, JGL, JJL	250
	ITE - SIEMENS	FD	FXD6, FD6, HFD6, CFD6	250
	ABB	XT3, XT4	XT3, XT4	225/250
B7CD	EATON/CUTLER HAMMER/WESTINGHOUSE	K	DK, KDB, KD, HKD, KDC	400
	GENERAL ELECTRIC	J	TJJ, TJK, THJK	400
	ITE - SIEMENS	JD	JXD2, JXD6, JD6, HJD6, HHJD6, CJD6	400
	SCHNIEDER/SQUARE D	L	LDL, LGL	400
	ABB	T5	T5N, T5S, T5H	400
B7CE	EATON/CUTLER HAMMER/WESTINGHOUSE	L	LDB, LD, HLD, LDC	600
	GENERAL ELECTRIC	J	TJK, THJK	600
	ITE - SIEMENS	L	LXD6, LD6, HLD6, HHLD6, CLD6	600
	SCHNIEDER/SQUARE D	L	LDL, LGL	600
	ABB	T6	T6N, T6S, T6H	600
B7CF	EATON/CUTLER HAMMER/WESTINGHOUSE	N	ND, HND, NDC	1200
	GENERAL ELECTRIC	K	TKM, THKM	1200
	ITE - SIEMENS	MD/ND	MD, MXD, HMXD, HMD, CMD	800/1200
	SCHNIEDER/SQUARE D	P	PDL, PGL	1200
	ABB	T7	T7N, T7S, T7H	1200

NOTE: Enclosure includes mounting pan which is pre-drilled to accept circuit breakers illustrated above.



CIRCUIT BREAKER ENCLOSURES

B7C ENCLOSURE WITH CIRCUIT BREAKER INSTALLED										
BREAKER AMP TRIP	MAX. VOLTAGE	CATALOG NUMBER			CATALOG NUMBER			CATALOG NUMBER		
		CUTLER-HAMMER/EATON BREAKERS			SCHNIEDER/SQUARE D BREAKERS			ABB		
		FRAME	2 POLE	3 POLE	FRAME	2 POLE	3 POLE	FRAME	3 POLE	4 POLE
15	480	EHD	B7CA-WEHD-42015	B7CA-WEHD-43015	HDL	B7CA-SHDL-42015	B7CA-SHDL-43015	XT1	B7CA-AXT1-43015	B7CA-AXT1-44015
15	600	FDB	B7CA-WFDB-62015	B7CA-WFDB-63015	HDL	B7CA-SHDL-62015	B7CA-SHDL-63015	XT1	B7CA-AXT1-63015	B7CA-AXT1-64015
20	480	EHD	B7CA-WEHD-42020	B7CA-WEHD-43020	HDL	B7CA-SHDL-42020	B7CA-SHDL-43020	XT1	—	—
20	600	FDB	B7CA-WFDB-62020	B7CA-WFDB-63020	HDL	B7CA-SHDL-62020	B7CA-SHDL-63020	XT1	B7CA-AXT1-63020	B7CA-AXT1-64020
25	480	EHD	B7CA-WEHD-42025	B7CA-WEHD-43025	HDL	B7CA-SHDL-42025	B7CA-SHDL-43025	XT1	—	—
25	600	FDB	B7CA-WFDB-62025	B7CA-WFDB-63025	HDL	B7CA-SHDL-62025	B7CA-SHDL-63025	XT1	B7CA-AXT1-63025	B7CA-AXT1-64025
30	480	EHD	B7CA-WEHD-42030	B7CA-WEHD-43030	HDL	B7CA-SHDL-42030	B7CA-SHDL-43030	XT1	—	—
30	600	FDB	B7CA-WFDB-62030	B7CA-WFDB-63030	HDL	B7CA-SHDL-62030	B7CA-SHDL-63030	XT1	B7CA-AXT1-63030	B7CA-AXT1-64030
35	480	EHD	B7CA-WEHD-42035	B7CA-WEHD-43035	HDL	B7CA-SHDL-42035	B7CA-SHDL-43035	XT1	—	—
35	600	FDB	B7CA-WFDB-62035	B7CA-WFDB-63035	HDL	B7CA-SHDL-62035	B7CA-SHDL-63035	XT1	B7CA-AXT1-63035	B7CA-AXT1-64035
40	480	EHD	B7CA-WEHD-42040	B7CA-WEHD-43040	HDL	B7CA-SHDL-42040	B7CA-SHDL-43040	XT1	—	—
40	600	FDB	B7CA-WFDB-62040	B7CA-WFDB-63040	HDL	B7CA-SHDL-62040	B7CA-SHDL-63040	XT1	B7CA-AXT1-63040	B7CA-AXT1-64040
50	480	EHD	B7CA-WEHD-42050	B7CA-WEHD-43050	HDL	B7CA-SHDL-42050	B7CA-SHDL-43050	XT1	—	—
50	600	FDB	B7CA-WFDB-62050	B7CA-WFDB-63050	HDL	B7CA-SHDL-62050	B7CA-SHDL-63050	XT1	B7CA-AXT1-63050	B7CA-AXT1-64050
60	480	EHD	B7CA-WEHD-42060	B7CA-WEHD-43060	HDL	B7CA-SHDL-42060	B7CA-SHDL-43060	XT1	—	—
60	600	FDB	B7CA-WFDB-62060	B7CA-WFDB-63060	HDL	B7CA-SHDL-62060	B7CA-SHDL-63060	XT1	B7CA-AXT1-63060	B7CA-AXT1-64060
70	480	EHD	B7CA-WEHD-42070	B7CA-WEHD-43070	HDL	B7CA-SHDL-42070	B7CA-SHDL-43070	XT1	—	—
70	600	FDB	B7CA-WFDB-62070	B7CA-WFDB-63070	HDL	B7CA-SHDL-62070	B7CA-SHDL-63070	XT1	B7CA-AXT1-63070	B7CA-AXT1-64070
80	480	EHD	B7CA-WEHD-42080	B7CA-WEHD-43080	HDL	B7CA-SHDL-42080	B7CA-SHDL-43080	XT1	—	—
80	600	FDB	B7CA-WFDB-62080	B7CA-WFDB-63080	HDL	B7CA-SHDL-62080	B7CA-SHDL-63080	XT1	B7CA-AXT1-63080	B7CA-AXT1-64080
90	480	EHD	B7CA-WEHD-42090	B7CA-WEHD-43090	HDL	B7CA-SHDL-42090	B7CA-SHDL-43090	XT1	—	—
90	600	FDB	B7CA-WFDB-62090	B7CA-WFDB-63090	HDL	B7CA-SHDL-62090	B7CA-SHDL-63090	XT1	B7CA-AXT1-63090	B7CA-AXT1-64090
100	480	EHD	B7CA-WEHD-42100	B7CA-WEHD-43100	HDL	B7CA-SHDL-42100	B7CA-SHDL-43100	XT1	—	—
100	600	FDB	B7CA-WFDB-62100	B7CA-WFDB-63100	HDL	B7CA-SHDL-62100	B7CA-SHDL-63100	XT1	B7CA-AXT1-63100	B7CA-AXT1-64100
125	600	FDB	B7CB-WFDB-62125	B7CB-WFDB-63125	HDL	B7CB-SHDL-62125	B7CB-SHDL-63125	XT1	B7CB-AXT1-63125	B7CB-AXT1-64125
125	600	JDB	B7CC-WJDB-62125	B7CC-WJDB-63125						
150	600	FDB	B7CB-WFDB-62150	B7CB-WFDB-63150	HDL	B7CB-SHDL-62150	B7CB-SHDL-63150			
150	600	JDB	B7CC-WJDB-62150	B7CC-WJDB-63150	JDL	B7CC-SJDL-62150	B7CC-SJDL-63150	XT3	B7CC-AXT3N-63150	B7CC-AXT3N-64150
175	600	JDB	B7CC-WJDB-62175	B7CC-WJDB-63175	JDL	B7CC-SJDL-62175	B7CC-SJDL-63175	XT3	B7CC-AXT3N-63175	B7CC-AXT3N-64175
200	600	JDB	B7CC-WJDB-62200	B7CC-WJDB-63200	JDL	B7CC-SJDL-62200	B7CC-SJDL-63200	XT3	B7CC-AXT3N-63200	B7CC-AXT3N-64200
225	600	JDB	B7CC-WJDB-62225	B7CC-WJDB-63225	JDL	B7CC-SJDL-62225	B7CC-SJDL-63225	XT3	B7CC-AXT3N-63225	B7CC-AXT3N-64225
250	600	JDB	B7CC-WJDB-62250	B7CC-WJDB-63250	JDL	B7CC-SJDL-62250	B7CC-SJDL-63250			
250	600	KD	B7CD-WKD-62250	B7CD-WKD-63250	LDL	B7CD-SJDL-62250	B7CD-SJDL-63250	XT4	B7CD-AXT4N-63250	B7CD-AXT4N-64250
300	600	KD	B7CD-WKD-62300	B7CD-WKD-63300				T5N	B7CD-AT5N-63300	B7CD-AT5N-64300
350	600	KD	B7CD-WKD-62350	B7CD-WKD-63350						
400	600	KD	B7CD-WKD-62400	B7CD-WKD-63400	LDL	B7CD-SLDL-62400	B7CD-SLDL-63400	T5N	B7CD-AT5N-63400	B7CD-AT5N-64400
400	600	LD	B7CE-WLD-62400	B7CE-WLD-63400						
500	600	LD	B7CE-WLD-62500	B7CE-WLD-63500						
600	600	LD	B7CE-WLD-62600	B7CE-WLD-63600	LDL	B7CE-SLDL-62600	B7CE-SLDL-63600			
600	600	ND	B7CF-WND-62600	B7CF-WND-63600				T6N	B7CF-AT6N-63600	B7CF-AT6N-64600
700	600	ND	B7CF-WND-62700	B7CF-WND-63700						
800	600	ND	B7CF-WND-62800	B7CF-WND-63800				T6N	B7CF-AT6N-63800	B7CF-AT6N-64800
1000	600	ND	B7CF-WND-621000	B7CF-WND-631000				T7N	B7CF-AT7N-631000	B7CF-AT7N-641000
1200	600	ND	B7CF-WND-621200	B7CF-WND-631200	PDL	B7CF-SPDL-621200	B7CF-SPDL-631200	T7N	B7CF-AT7N-631200	B7CF-AT7N-641200



CIRCUIT BREAKER ENCLOSURES

TECHNICAL DATA INTERRUPTING CAPACITY RATINGS (SYMMETRICAL AMPERES)

BREAKER FRAME	VOLTS AC			VOLTS DC
CUTLER-HAMMER/EATON	240	480	600	250
EHD	18,000	14,000	—	10,000
FDB	18,000	14,000	14,000	10,000
JDB	65,000	25,000	18,000	10,000
KD	65,000	35,000	25,000	10,000
LD	65,000	35,000	25,000	22,000
ND	65,000	50,000	25,000	—
SQUARE D				
HDL	25,000	18,000	14,000	10,000
JDL	42,000	25,000	22,000	10,000
LDL	25,000	18,000	14,000	10,000
LGL	65,000	35,000	18,000	—
PDL	42,000	50,000	50,000	14,000
ABB				
XT1, XT2	50,000	22,000	10,000	25,000
XT3	50,000	25,000	10,000	25,000
XT4	65,000	25,000	18,000	25,000
T5N	65,000	25,000	18,000	25,000
T6N	65,000	35,000	20,000	35,000
T7N	65,000	50,000	25,000	NA

Consult factory for requirements on higher interrupting rated breakers.

NOTE: Modifications to Internal Circuit Breaker such as Shunt Trip, Auxiliary Switches, Alarm Switch and Undervoltage Release Mechanism are available and should be ordered by description.

DIMENSIONS

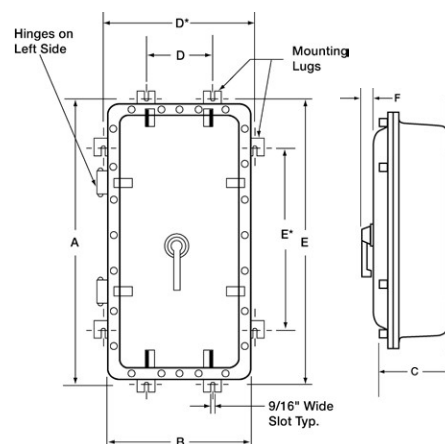


Figure 1

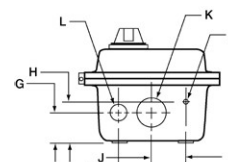


Figure 2

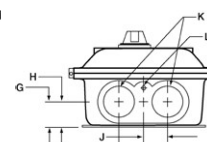
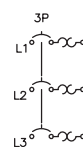


Figure 3



ACCESSORIES / OPTIONS

CATALOG NUMBER	DESCRIPTION
SU-3B-4X	Drain/Breather TYPE 4X/7 B,C,D
SU-10B-4X	Drain TYPE 4X/7 B,C,D
SU-11B-4X	Breather TYPE 4X/7 B,C,D
B7CGRND	Grounding lug kit
B7C-SN1	Solid neutral 150 AMP
B7C-SN2	Solid neutral 250 AMP
B7C-SN3	Solid neutral 600 AMP
B7C-SN4	Solid neutral 1200 AMP
B7SF	Special epoxy finish
B7SPNPT	Change standard conduit openings

B7C DIMENSIONS

CATALOG NUMBER	USE FIGURES	DIMENSIONS												CONDUIT OPENINGS TOP & BTM. (NPT)			EST. ENCL. WT. LBS (KG)
		A	B	C	D	D*	E	E*	F	G	H	I	J	K	L	M	
B7CA	1, 2	18" (457)	11" (279)	9-1/8" (232)	3-5/8" (92)	N/A	16-3/8" (416)	N/A	1-3/4" (44)	2-15/16" (76)	3-11/16" (94)	2-3/8" (60)	2-1/8" (54)	1-1/2"	3/4"	1/2"	46 (20.86)
B7CB	1, 2	26-1/4" (667)	12-1/2" (318)	10-3/4" (273)	5" (127)	N/A	24-5/8" (625)	N/A	1-3/4" (44)	4-5/16" (110)	5-3/4" (146)	2-3/4" (70)	2-1/2" (64)	2"	1"	1/2"	80 (36.28)
B7CC	1, 2	34-1/4" (870)	16-1/2" (419)	11-1/2" (292)	9" (229)	N/A	32-5/8" (829)	N/A	1-3/4" (44)	4-11/16" (119)	6-1/4" (159)	4" (102)	3-3/4" (95)	3"	1"	1/2"	155 (70.30)
B7CD	1, 2	34-1/4" (870)	16-1/2" (419)	11-1/2" (292)	9" (229)	N/A	32-5/8" (829)	N/A	2-5/8" (67)	4-11/16" (119)	6-1/4" (159)	4" (102)	3-3/4" (95)	3"	1"	1/2"	155 (70.30)
B7CE	1, 3	45-3/8" (1153)	17-1/2" (445)	9-5/8" (244)	N/A	15-1/4" (387)	N/A	33" (838)	2-5/8" (67)	3-3/16" (838)	4-1/2" (114)	2-3/4" (70)	2-3/4" (70)	3"	1/2"	N/A	215 (97.52)
B7CF	1, 3	62-1/4" (1581)	20-1/4" (514)	15" (381)	N/A	18-1/2" (470)	N/A	43-1/2" (1105)	2-5/8" (67)	5-3/8" (137)	7-3/8" (187)	3-1/2" (89)	3-1/2" (89)	4"	1/2"	N/A	540 (244.93)