

ENCLOSURES

B7E SERIES



JUNCTION BOXES

UL #UL1203 - Explosion proof and dust-ignition-proof electrical equipment for use in hazardous (classified) locations. File #E83969

SP #C22.2 No. 30-M1986-Explosion-proof Enclosure for use in Class I Hazardous Locations. FILE #LR11716

Class I, Div. 1 & 2, Groups B, C, D^①
Class I, Zone 1 & 2 Groups IIB + H2, IIA
Class II, Div. 1 & 2, Groups E, F, G
Class III, Div. 1 & 2
Enclosure Type 3, 4, 4X
NEMA 3, 4, 4x, 7 (B, C, D), 9 (E, F, G)

FEATURES-SPECIFICATIONS



Applications

- Locations made hazardous due to the presence of flammable gases or vapors, combustible dust, or easily ignitable fibers and flyings, and areas which are subject to corrosion, weather and dampness
- Petroleum Refineries, Chemical and Petrochemical plants with indoor and outdoor process
- Applications requiring junction, pull and/or splice boxes
- Enclosures to house control stations, relays, starters, circuit breakers, terminal blocks and other equipment or devices

(Glass viewing windows cannot be added to the Prism Series Enclosures. Use Killark Quantum Enclosures when viewing windows are required.)

Features

- Copper-free cast aluminum construction. High strength, lighter in weight, corrosion resistant
- Quick Release, Captivated Cover Bolts of 316 Grade Stainless Steel. Triple-lead bolts require only 3-1/2 turns to disengage. Stainless steel (316 grade) for maximum protection from corrosion
- Gasketed Flange. Nitrile (BUNA-N) "O" ring gasket is located inside bolt circle to prevent water seeping into enclosure
- Ductile Mounting Lugs. Lugs are made of ductile aluminum alloy to adjust to irregular mounting surfaces without damage to enclosure
- Hinged Cover is Standard

- Recessed Flange Notches. Flanges are notched to allow for easier cover opening with prying instrument without flange damage
- Conduit Openings. Conduit openings can be supplied at factory, or can be field installed.

Material/Finish

- Enclosure: Cast Copper-free Aluminum (less than 4/10 of 1%)
- Hinges: Aluminum with stainless steel hardware
- Cover Bolts: 316 Grade Stainless Steel
- Aluminum Lacquer Paint Finish Standard on all B7E except B7EP and B7EQ which are powder epoxy as standard

B7E JUNCTION BOXES AND ENCLOSURES

CATALOG NUMBER	DIMENSIONS								DRAWING FIGURE	MAXIMUM CONDUIT SIZE		MAXIMUM NUMBER OF OPERATORS ^②
	NOMINAL INSIDE			OUTSIDE			MOUNTING			TOP & BOTTOM	SIDES	
	WIDTH (A)	LENGTH (B)	DEPTH (C)	WIDTH (D)	LENGTH (E)	DEPTH (F)	WIDTH (G)	LENGTH (H)				
B7EA	6-1/2"	13-1/2"	6-11/16"	11"	18"	9-1/8"	3-5/8"	16-3/8"	1	1-1/2"	1"	4 rows of 2 = 8
B7EB	10"	18-1/2"	6-5/8"	14-1/2"	23"	9-1/8"	7"	21-3/8"	1	1-1/2"	1"	7 rows of 3 = 21
B7EC	8"	15-1/2"	6-11/16"	12-1/2"	20"	9-1/8"	5"	18-3/8"	1	1-1/2"	1"	5 rows of 2 = 10
B7ED	10"	21"	6-11/16"	14-1/2"	25-1/2"	9-1/8"	7"	23-7/8"	1	1-1/2"	1"	8 rows of 3 = 24
B7EE	8"	21-3/4"	8-5/16"	12-1/2"	26-1/4"	10-3/4"	5"	24-5/8"	1	2"	2"	8 rows of 2 = 16
B7EF	13"	22-3/4"	8-3/8"	17-7/8"	27-1/4"	11"	10-3/8"	25-5/8"	1	4"	4"	8 rows of 4 = 32
B7EG	12"	29-3/4"	8-7/8"	16-1/2"	34-1/4"	11-1/2"	9"	32-5/8"	1	5"	4"	8 rows of 3 = 24
B7EH	17"	29-3/4"	8-11/16"	21-1/2"	34-1/4"	11-7/8"	14"	32-5/8"	1	5"	4"	9 rows of 5 = 45
B7EJ	15-1/2"	57-1/2"	9-5/16"	20-1/4"	62-1/4"	15"	18-1/2"	43-1/2"	2	5"	5"	18 rows of 4 = 72
B7EK	13"	20"	6-5/8"	17-1/2"	24-3/4"	9-1/2"	15-1/4"	13"	2	3"	1-1/2"	6 rows of 4 = 24
B7EL	13"	29"	6-5/8"	17-1/2"	33-3/8"	9-1/2"	15-1/4"	21"	2	3"	1-1/2"	9 rows of 4 = 36
B7EM	13"	41"	6-5/8"	17-1/2"	45-3/8"	9-1/2"	15-1/4"	33"	2	3"	1-1/2"	14 rows of 4 = 56
B7EN	13"	50"	6-5/8"	17-1/2"	54-3/8"	9-1/2"	15-1/4"	42"	2	3"	1-1/2"	17 rows of 4 = 68
B7EP ^③	3-5/8"	5-13/16"	5-1/16"	5-3/4"	8-1/16"	6-5/16"	3-1/8"	8-1/8"	1	1"	1"	1 row of 2 = 2
B7EQ ^③	4-1/4"	9-3/16"	6-5/16"	8-1/8"	13-1/16"	7-13/16"	6-3/8"	7-1/2"	2	1-1/2"	1-1/2"	1 row of 4 = 4

^① All Conduits must be sealed within 18" when used in Group B Locations.

^② Operator spacing is 2-1/2" \pm to \pm except on B7EG & B7EH spacing is 3" \pm to \pm . Internal Mounting Pan Thickness is 1/8" except on B7EJ it is 3/16" thick. B7EJ Enclosure Cover has an Internal Rib Structure. Consult Killark for drawing details before layout of cover devices. Maximum number of "G" series control operators permitted in cover, down + across = total.

^③ B7 COMPACT Series - Details on page E39.



JUNCTION BOXES



FEATURES-SPECIFICATIONS

B7E JUNCTION BOXES AND ENCLOSURES			
CATALOG NUMBER	PAN ^①		
	CATALOG NUMBER	WIDTH (J)	LENGTH (K)
B7EA	19919	5"	11-3/4"
B7EB	19920	8-1/4"	16-3/4"
B7EC	18245	6-1/4"	13-3/4"
B7ED	19921	8-3/8"	19-3/8"
B7EE	19923	6-3/8"	20-3/8"
B7EF	18472	11-5/8"	21-1/4"
B7EG	19924	10"	28"
B7EH	19925	15-3/8"	28-3/8"
B7EJ	18279	13-1/2"	54"
B7EK	19926	11"	18"
B7EL	19927	11"	27"
B7EM	19928	11"	39"
B7EN	19929	11"	47"
B7EP ^②	—	N/A	N/A
B7EQ ^②	—	N/A	N/A

MODIFICATIONS	
SUFFIX NUMBER	DESCRIPTION
KIT-251	100 amp ground lug
KIT-252	225 amp ground lug
SU3B4X	Drain & breather installed (GRPs B, C & D TYPE 4X)
SU94	"Drill, tap & plug for future" drain & breather
SU9	Special paint finish
SU14	Fungus proofing of enclosure
SU93	Do not paint enclosure

① Internal Mounting Pan Thickness is 1/8" except on B7EJ it is 3/16" thick.

② B7 COMPACT Series - Details on page E39.

Dimensions
(See page E37)

Figure 1

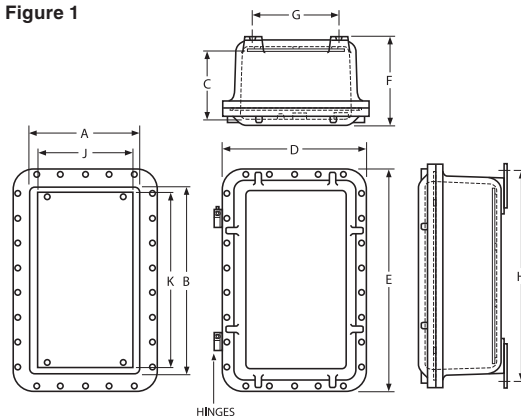


Figure 2

