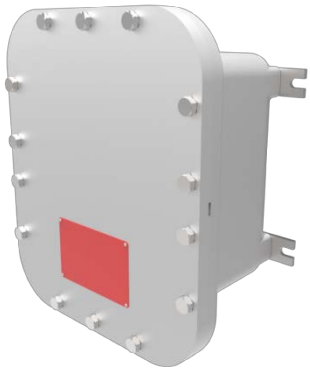
HUBBELL ELECTRICAL PRODUCTS
A Division of HUBBELL INCORPORATED (Delaware)
2112 Fenton Logistics Park Blvd
Fenton, Missouri 63026 USA

INSTALLATION, OPERATION & MAINTENANCE DATA SHEET
SERIES EXB-N34 CEN & EXBLT-N4 CEN
SERIES EXB-N34 & EXBLT-N4
Empty Enclosures and Controllers



QUANTUM ® ENCLOSURES / EXB*LITE*

(EXB-N34, EXBLT-N4, EXB-N34 CEN & EXBLT-N4 CEN Empty Enclosures and Controllers)

Classified by Underwriters Laboratories as to explosion and fire hazard only. Enclosure for use in Hazardous Locations. UL and CSA certified for use in Class I, Groups B, C & D, Type 3, 4 & 4X, Class II, Groups E, F & G and Class III Hazardous Locations, as defined by the Canadian Electrical Code and the National Electrical Code. IECEx / ATEX Certified for use in Zone 1 & 2, Zone 21 & 22, Ex db IIB+H2 Gb, Ex tb IIIC Gb Hazardous Locations, IP66 Ingress Protection.

CLASSIFIED UL | c SA US | PS CERTIFIED | UK CA 0518

CAUTION:

Before installing, make sure you are compliant with area classifications, as failure to do so may result in bodily injury, death and property damage. Do not attempt installation until you are familiar with the following procedures. All installation must comply with the applicable Electrical Code(s).

Make sure that the circuit is de-energized before starting installation or maintenance.

Verify that the installation is grounded. Failure to ground will create electrical shock hazards, which can cause serious injury and or death.

This enclosure utilizes non-metallic components. The end user should consider their performance with respect to the chemicals that may be present in the hazardous area.

IMPORTANT:

Please read these instructions carefully before installing or maintaining this equipment. Good electrical practices should be followed at all times and this data should be used as a guide only.

Technical information, advice and recommendations contained in these documents is based upon information that Killark believes to be reliable. All the information and advice contained in these documents is intended for use only by persons having been trained and possessing the requisite skill and know-how and to be used by such persons only at their own discretion and risk. The nature of these instructions is informative only and does not cover all of the details, variations or combinations in which this equipment may be used, its storage, delivery, installation, check out, safe operation and maintenance. Since conditions of use of the product are outside of the care, custody and control of Killark, the purchaser should determine the suitability of the product for his intended use, and assumes all risk and liability whatsoever in connection therewith.

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Empty Enclosures and Controllers

Application Information -

a: These component enclosures form the basis for certification of a unit or protection system for use in hazardous areas **other than** Zone 0.

b: All internal components mounted in this enclosure should be Certified (Listed Or Recognized) for the application and installed in accordance with the component manufacturer's installation instructions.

c: Care shall be taken by the end-use Control Station manufacturer to ensure proper separation of circuits (voltages), and spacings (creepage and clearance distances between live parts of opposite polarity, and between all live parts and dead metal) are maintained. Refer to IEC/EN/UL/CSA 60079-7, Table 2, for minimum Increased Safety creepage and clearance distances.

d: A complete Control Station should be certified by a notified body to the applicable product safety Standard(s), and all supply wiring methods (including grounding) shall be in accordance with the local/jurisdictional electrical code(s).

Installation Instructions -

NEC/CEC: This junction box must be installed by trained, qualified and competent personnel. Installation must comply with local, state and national regulations, as well as safety practices for this type of equipment.

IEC/EN Installation Code references (60079-14, 60079-17) : Installation shall be carried out by suitably-trained personnel in accordance with the applicable code of practice e.g. IEC/EN 60079-14.

The mounting location must be flat and provide proper clearance, rigidity and strength to support the enclosure and all contained devices. (Refer to Figures 1 & 2)

WARNING: Electrical power **must** be **OFF** during installation. **Disconnect** primary power source and **lock out**.

Larger enclosures are equipped with factory installed hinges. Enclosure should be mounted with hinges on the left. **Do not** mount the enclosure with hinges on the **top** or **bottom** side. (See Figure 3)

Securely fasten the enclosure to the mounting location, using M12 or 1/2" diameter steel mounting bolts and washers, or washer head bolts. Install sealing fittings and conduit using an approved electrical conducting type lubricant on the threads. The conduit thread connections must be tapered pipe thread conforming to ANSI/ASME B1.20.1.

A minimum of five (5) full threads engagement is required for all NPT device connections/ threaded openings. A minimum of seven (7) full threads engagement is required for all NPSM/Metric device connections/ threaded openings.

Sealing fittings, approved for the specific hazardous location where the enclosure is used, must be installed within 18" of the enclosure for NEC/CEC Class and Division applications. For ATEX, IECEx, & UKCA applications, the seal must be immediately adjacent to the enclosure. See schedule of limitations for deviation allowances.

All unused enclosure openings must be plugged using a certified close-up plug approved for the specific hazardous location where the enclosure is used. Plugs must be tightly installed with a minimum engagement of five (5) full threads for NPT threads, and seven (7) full threads for NPSM/Metric threads.

IMPORTANT: When installing cover-mounted components into component Series EXB and EXBLT enclosures, install only IECEx/ATEX certified auxiliary control devices for hazardous locations (such as Killark Series GO operators) **with Long and Extra-Long shafts only**. Refer to individual operator installation sheet for installation details. The minimum wall thickness of counter-bore (where required) and operator spacing are to be determined from the dimensional chart on Page 6.

NOTE: If installing a breather and/or drain, make certain they are suitable for the specific hazardous location where they are to be used. Also, installing a breather rated Type 4 or IPx6 will reduce the need to provide a protective device to shield the breather and drain during hose-down operations.

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Installation Instructions (cont'd) -

Inspect and clean the machined flange flame joint surfaces of both the cover and box. Surfaces must be smooth, free of nicks, scratches, dirt or any foreign particle build-up that would prevent a proper seal. Surfaces must seat fully against each other to provide a proper explosion-proof joint. Clean surfaces by wiping with a clean, lint-free cloth.

Apply a light coat of Killark "LUBG" lubricant to flange surfaces and close the cover. Install and tighten all cover bolts to 40Nm (30 ft. lbs.). Make certain no cover bolts are omitted. Use only those bolts supplied with the enclosure. Check the bolted joint with a .0381mm (.0015") thick feeler gauge. The gauge **must not enter** the joint more than 3.175mm (1/8") at any point.

NOTE: Missing bolts or an improper joint can result in an explosion, creating a potential for physical injury or property damage.

Maintenance Instructions – **Inspection and maintenance of this equipment shall be carried out by suitably trained personnel in accordance with the applicable code of practice e.g. IEC/EN 60079-17.**

After installation, this junction box should be inspected at regular intervals. A visual inspection should ascertain that all cover bolts are installed and still tight; that all conduit connections are intact and free of corrosion, and that the enclosure mounting bolts are tight and in good condition.

If the enclosure must be opened for servicing, to check or replace internal devices and apparatus, the following procedures should be followed.

WARNING: Before servicing the enclosure, be certain the electrical power is OFF. Disconnect the enclosure from primary power source and lock out.

Remove all cover bolts. Clean and inspect. Replace any corroded, bent or otherwise damaged bolts with new, factory authorized bolts obtained from an authorized Killark distributor.

Open enclosure. **Do not** use a hammer, screwdriver or any prying tool to open cover, except as shown in Figure 4.
Inspect cover hinges. If hinges are damaged or do not function properly, contact a factory authorized service representative for hinge replacement and installation.

Inspect machined, flame joint flange surfaces. Surfaces must be smooth, free of nicks, scratches, dirt or any foreign particle build-up that would prevent a proper seal. Should surface be damaged, contact factory. Never attempt to rework surfaces by sanding, grinding, etc. Surfaces must seat fully against each other to provide a proper explosion-proof joint.

Inspect water exclusion gasket. If gasket is damaged, contact Killark Customer Service (**1-800-KILLARK**) for replacement gasket and instructions on repair.

Contact a factory authorized representative for a replacement cover. When removing gasketed cover for replacement, **do not** detach hinge body from cover. It should be detached at the back-box.

Remove cover and hinge body from enclosure by removing the hinge pins. (See Figure 5) The damaged gasket can be removed from the cover and the cover without gasket can be safely used in Class I & II hazardous (classified) locations, however, the enclosure may **not** be raintight or hosedown tight.

Clean flange surfaces by wiping with a clean, lint-free cloth. Apply a light coating of Killark "LUBG" lubricant to flange surfaces and close cover. Install and tighten **all** cover bolts to 40Nm (30 ft. lbs.). Make certain no cover bolts are omitted. Use **only** factory authorized bolts. Check the flame joint with a .0381mm (.0015") thick feeler gauge. The gauge must not enter the flame joint more than 3.175mm (1/8") at any point.

Missing bolts or an improper flame joint can result in an explosion, creating a potential for physical injury and property damage.

Certification Ratings -

Series EXB and EXBLT Empty (Component) Enclosures :

North American Certifications (UL / CSA – Series EXB only**):**

HazLoc Ratings: Class I, Div. 1, Groups B, C and D; Class II, Div. 1, Groups E, F and G; Class III, Div. 1; Encl. Types 3 and 4 (Cat. Nos. ending in N34 & N4).

UL: -25°C ≤ T ambient ≤ 60°C

CSA: -50°C ≤ T ambient ≤ 60°C

ATEX / IECEx/UKCA ratings :

Ex II 2 G Ex db IIB+H2 Gb
II 2 D Ex tb IIIC Db IP66
QPS21ATEX0001U / IECEx QPS 17.0013U
-50°C ≤ T ambient ≤ +70°C
3CT22UKEX1002U

Series EXB and EXBLT Control Stations :

North American Certifications (cCSAus):

HazLoc Ratings: Class I, Div. 1, Groups B, C and D; Class II, Div. 1, Groups E, F and G; Class III, Div. 1; Encl. Types 3 and 4 (Cat. Nos. ending in N34 & N4).

UL: -25°C ≤ T ambient ≤ 60°C

CSA: -50°C ≤ T ambient ≤ 60°C

ATEX / IECEx/UKCA ratings :

CE 0518 Ex II 2 G Ex db IIB+H2 Gb
II 2 D Ex tb IIIC T90°C Db IP66
QPS21ATEX0002(X) / IECEx QPS 17.0014X
-50°C ≤ T ambient ≤ +70°C
3CT22UKEX1003X

IECEx/ATEX Schedule of limitations –

1) Rectangular windows larger than 2 x 4 in. have been evaluated only to the low risk of mechanical danger and are certified for use in an ambient temperatures range of -20 °C to +70 °C.

2) Round windows larger than 5-3/8 in. have been evaluated only to the low risk of mechanical danger and are certified for use in an ambient temperatures range of -20 °C to +70 °C.

3) Enclosures sealed within 18 inches are certified for use in an ambient temperature range of -20 °C to +70 °C.

Figure 1 :

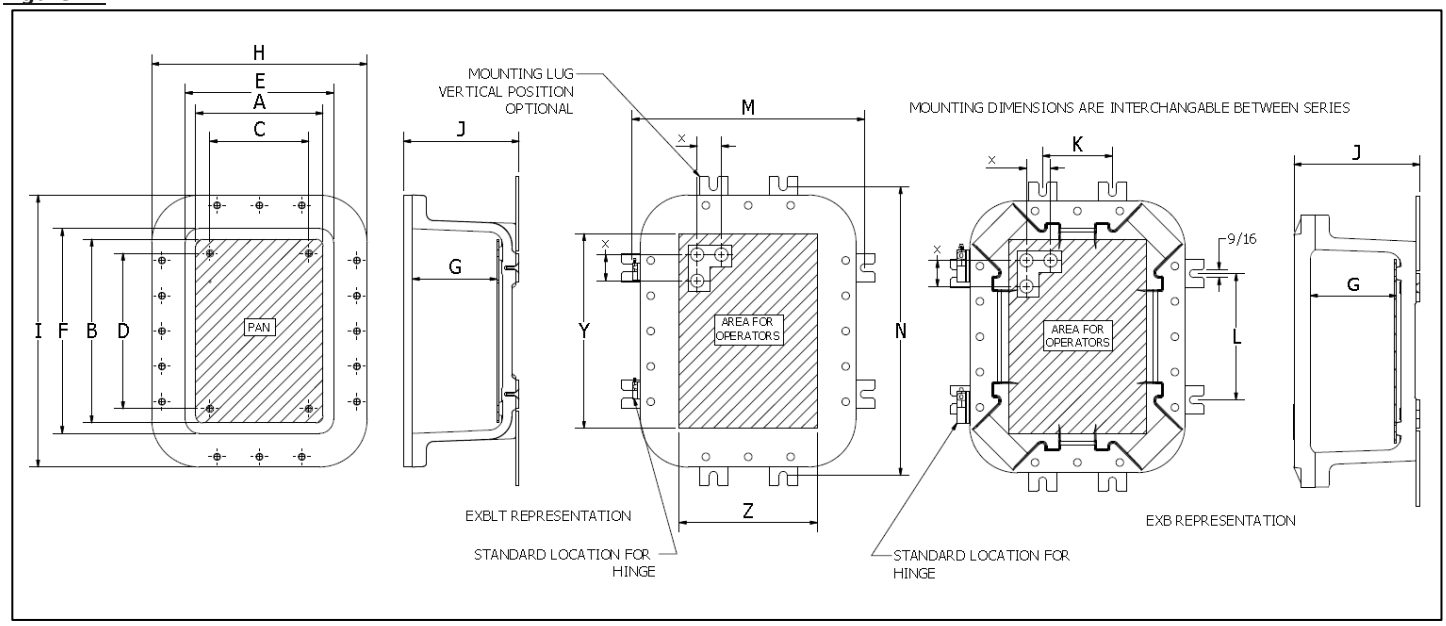

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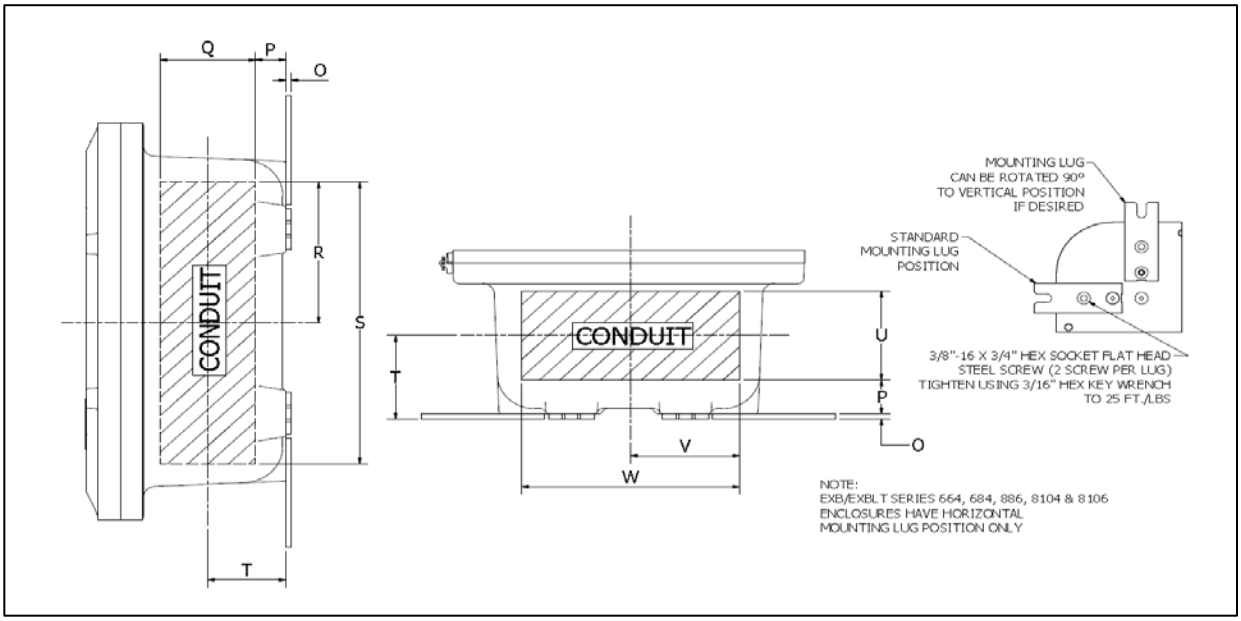
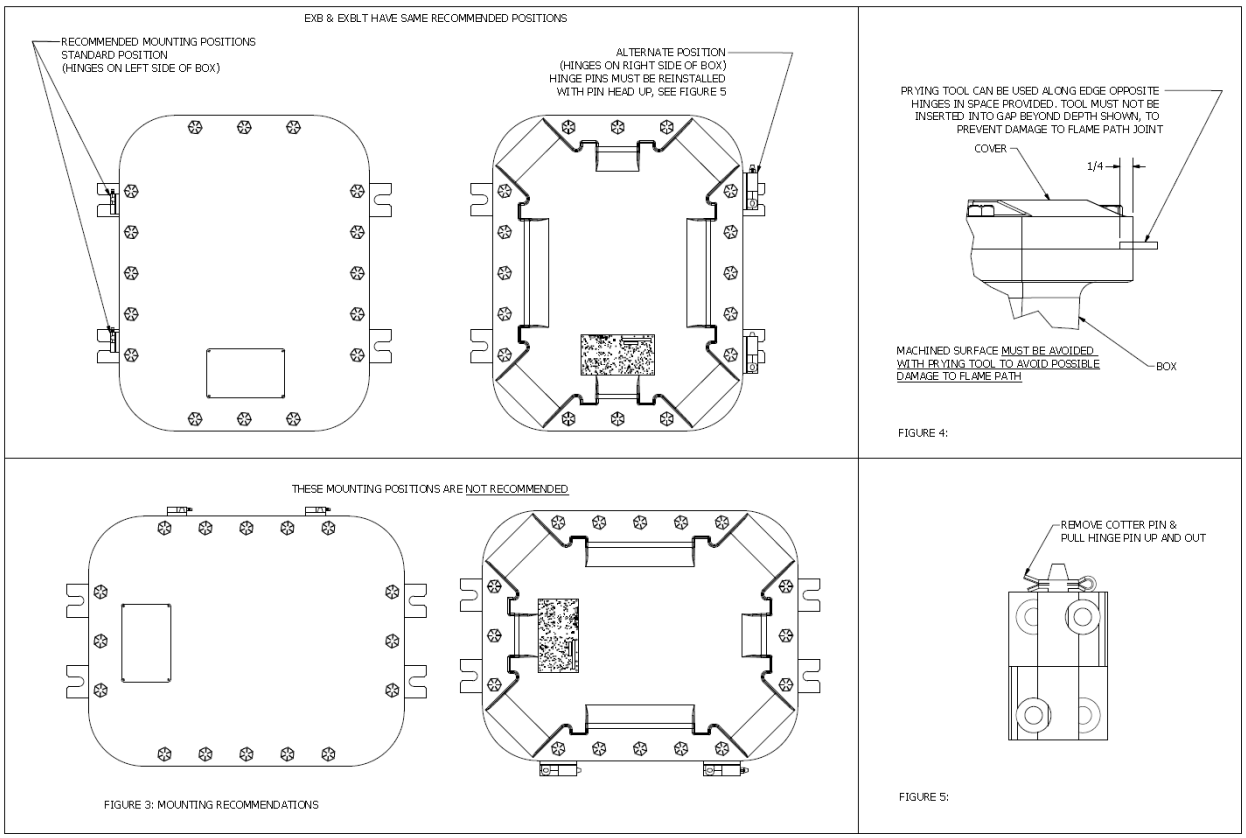
Figure 2 :



Figures 3, 4, 5 :



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SERIES EXB-N34 CEN & EXBLT-N4 CEN
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Empty Enclosures and Controllers

ENCLOSURE CATALOG NUMBER	INTERNAL DIMENSIONS					EXTERNAL DIMENSIONS		MOUNTING DIMENSIONS				CONDUIT AREA						OPERATOR AREA SPECIFICATION			MIN THK. AT C'BORE	MAX. DIA. C'BORE	MAX. # OF OPER.	UNIT WGT (lbs)	ENCLOSURE CATALOG NUMBER
	PAN			INTERNAL VOLUME																					
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z					
EXB-664 N34	5.00	5.00	3.00	3.00	5.73	5.73	4.31	10.31	10.31	6.09	N/A	4.00	7.88	N/A	0.19	1.18	2.81	2.44	4.88	2.75	2.81	2.44	4.88	2.5	5.00	5.00	0.50	2.5	4	20	EXB-664 N34
EXB-684 N34	5.00	7.00	3.00	5.00	5.75	7.75	4.18	10.25	12.25	6.12	N/A	4.00	7.88	N/A	0.19	1.18	2.81	3.44	6.88	2.75	2.81	2.44	4.88	2.5	7.00	5.00	0.50	2.5	6	21	EXB-684 N34
EXB-6124 N34	5.00	11.00	3.00	9.00	5.75	11.75	4.25	10.68	16.68	7.00	N/A	7.82	7.88	N/A	0.19	1.18	2.81	5.00	10.00	2.75	2.81	2.44	4.88	2.5	11.00	5.00	0.88	2.5	8	43	EXB-6124 N34
EXB-886 N34	7.00	7.00	5.00	5.00	7.59	7.59	6.06	12.31	12.31	8.09	N/A	6.00	9.88	N/A	0.19	1.18	4.81	3.44	6.88	3.75	4.81	3.44	6.88	2.5	7.00	7.00	0.63	2.5	9	33	EXB-886 N34
EXB-8104 N34	9.00	5.00	7.00	7.00	7.73	9.73	4.06	12.31	14.31	6.32	N/A	8.00	9.88	N/A	0.19	1.18	2.81	4.44	8.88	2.75	2.81	3.44	6.88	2.5	9.00	7.00	0.82	2.5	12	36	EXB-8104 N34
EXB-8106 N34	7.00	9.00	5.00	7.00	7.59	9.59	6.06	12.31	14.31	8.32	N/A	8.00	9.88	N/A	0.19	1.18	4.18	4.44	8.88	3.45	4.81	3.44	6.88	2.5	9.00	7.00	0.82	2.5	12	40	EXB-8106 N34
EXB-8126 N34	7.00	11.00	5.00	9.00	8.00	12.00	6.38	13.25	17.25	8.70	3.82	7.82	10.38	14.38	0.19	1.78	3.75	5.00	10.00	3.66	3.75	3.00	6.00	2.5	11.00	7.00	0.75	2.5	12	60	EXB-8126 N34
EXB-8128 N34	7.00	11.00	5.00	9.00	8.00	12.00	8.38	13.25	17.25	10.70	3.82	7.82	10.38	14.38	0.19	1.78	5.75	5.00	10.00	4.66	5.75	3.00	6.00	2.5	11.00	7.00	0.75	2.5	12	64	EXB-8128 N34
EXB-10106 N34	9.00	9.00	7.00	7.00	10.00	10.00	6.20	15.25	15.25	8.90	4.94	4.94	12.94	12.94	0.25	1.91	3.75	4.00	8.00	3.79	3.75	4.00	8.00	2.5	9.00	9.00	1.00	2.5	12	66	EXB-10106 N34
EXB-10108 N34	9.00	9.00	7.00	7.00	10.00	10.00	8.20	15.25	15.25	10.90	4.94	4.94	12.94	12.94	0.25	1.91	5.75	4.00	8.00	4.79	5.75	4.00	8.00	2.5	9.00	9.00	1.00	2.5	12	73	EXB-10108 N34
EXB-10146 N34	9.00	13.00	7.00	11.00	10.00	14.00	6.20	15.25	19.25	8.90	4.94	8.94	12.94	16.94	0.25	1.91	3.75	6.00	12.00	3.79	3.75	4.00	8.00	2.5	13.00	9.00	1.00	2.5	15	82	EXB-10146 N34
EXB-10148 N34	9.00	13.00	7.00	11.00	10.00	14.00	8.20	15.25	19.25	10.90	4.94	8.94	12.94	16.94	0.25	1.91	5.75	6.00	12.00	4.79	5.75	4.00	8.00	2.5	13.00	9.00	1.00	2.5	15	91	EXB-10148 N34
EXB-12126 N34	10.50	10.50	9.00	9.00	11.50	11.50	6.00	16.37	16.37	8.69	6.94	6.94	14.94	14.94	0.25	1.88	3.81	4.94	9.88	4.00	3.81	4.94	9.88	2.5	10.00	10.00	1.08	2.5	16	79	EXB-12126 N34
EXB-12128 N34	10.50	10.50	9.00	9.00	11.37	11.37	8.00	16.37	16.37	10.69	6.94	6.94	14.94	14.94	0.25	1.88	5.81	4.94	9.88	5.00	5.81	4.94	9.88	2.5	10.00	10.00	1.08	2.5	16	80	EXB-12128 N34
EXB-12186 N34	10.00	16.00	9.00	15.00	11.50	17.50	6.00	16.37	22.38	9.06	6.94	12.88	14.94	20.88	0.25	2.06	3.13	7.94	15.88	3.88	3.75	4.94	9.88	2.5	16.00	10.00	1.25	2.5	28	104	EXB-12186 N34
EXB-12188 N34	10.00	16.00	9.00	15.00	11.37	17.37	8.00	16.37	22.38	11.06	6.94	12.88	14.94	20.88	0.25	2.06	5.13	7.94	15.88	4.88	5.75	4.94	9.88	2.5	16.00	10.00	1.25	2.5	28	113	EXB-12188 N34
EXB-12246 N34	10.25	22.25	9.00	21.00	11.37	23.37	8.00	16.37	28.38	11.32	6.94	18.88	14.94	26.88	0.25	2.13	3.13	10.94	21.88	3.94	3.81	4.94	9.88	2.5	22.25	10.25	1.44	2.5	36	139	EXB-12246 N34
EXB-12248 N34	10.25	22.25	9.00	21.00	11.37	23.37	8.00	16.37	28.38	11.32	6.94	18.88	14.94	26.88	0.25	2.13	5.13	10.94	21.88	4.94	5.81	4.94	9.88	2.5	22.25	10.25	1.44	2.5	36	151	EXB-12248 N34
EXB-12412 N34	10.25	22.25	9.00	21.00	11.37	23.37	12.00	16.37	28.38	15.32	6.94	18.88	14.94	26.88	0.25	2.13	9.13	10.94	21.88	6.94	9.81	4.94	9.88	2.5	22.25	10.25	1.44	2.5	36	176	EXB-12412 N34
EXB-12368 N34	11.00	35.00	9.00	33.00	12.00	36.00	8.12	17.25	41.25	11.40	7.00	31.00	15.00	39.00	0.25	2.09	5.75	17.00	34.00	4.97	5.75	5.00	10.00	2.5	35.00	11.00	1.31	2.5	56	229	EXB-12368 N34
EXB-12610 N34	11.00	35.00	9.00	33.00	12.00	36.00	10.12	17.25	41.25	13.40	7.00	31.00	15.00	39.00	0.25	2.09	7.75	17.00	34.00	5.97	7.75	5.00	10.00	2.5	35.00	11.00	1.31	2.5	56	245	EXB-12610 N34
EXB-14146 N34	13.00	13.00	11.00	11.00	14.00	14.00	6.20	19.25	19.25	9.40	9.00	9.00	17.00	17.00	0.25	2.09	3.75	6.00	12.00	3.97	3.75	6.00	12.00	2.5	13.00	13.00	1.31	2.5	25	111	EXB-14146 N34
EXB-14148 N34	13.00	13.00	11.00	11.00	14.00	14.00	8.20	19.25	19.25	11.40	9.00	9.00	17.00	17.00	0.25	2.09	5.75	6.00	12.00	4.97	5.75	12.00	24.00	2.5	13.00	13.00	1.31	2.5	25	121	EXB-14148 N34
EXB-16166 N34	14.00	14.00	13.00	13.00	15.50	15.50	6.00	20.38	20.38	9.19	10.94	10.94	18.94	18.94	0.25	2.06	3.75	6.94	13.88	4.18	3.75	6.94	13.88	2.5	14.00	14.00	1.38	2.5	36	128	EXB-16166 N34
EXB-16168 N34	14.00	14.00	13.00	13.00	15.37	15.37	8.00	20.38	20.38	11.19	10.94	10.94	18.94	18.94	0.25	2.06	5.75	6.94	13.88	5.18	5.75	6.94	13.88	2.5	14.00	14.00	1.38	2.5	36	139	EXB-16168 N34
EXB-16248 N34	15.00	23.00	13.00	21.00	16.00	24.00	8.12	21.25	29.25	12.00	11.38	19.38	19.38	27.38	0.25	2.34	5.75	11.00	22.00	5.22	5.75	7.00	14.00	2.5	22.00	14.00	1.63	2.5	40	237	EXB-16248 N34
EXB-16410 N34	15.00	23.00	13.00	21.00	16.00	24.00	10.12	21.25	29.25	14.00	11.38	19.38	19.38	27.38	0.25	2.34	7.75	11.00	22.00	6.22	7.75	7.00	14.00	2.5	22.00	14.00	1.63	2.5	40	248	EXB-16410 N34
EXB-18186 N34	17.00	17.00	15.00	15.00	18.00	18.00	6.12	23.25	23.25	10.00	13.38	13.38	21.38	21.38	0.25	2.34	3.75	8.00	16.00	4.22	3.75	8.00	16.00	2.5	16.00	16.00	1.63	2.5	36	195	EXB-18186 N34
EXB-18188 N34	17.00	17.00	15.00	15.00	18.00	18.00	8.12	23.25	23.25	12.00	13.38	13.38	21.38	21.38	0.25	2.34	5.75	8.00	16.00	5.22	5.75	8.00	16.00	2.5	16.00	16.00	1.63	2.5	36	212	EXB-18188 N34
EXB-18248 N34	16.38	22.13	15.00	21.00	17.37	23.37	8.00	22.38	28.38	11.75	13.00	19.00	21.00	27.00	0.25	2.32	4.88	10.94	21.88	5.00	5.56	7.94	15.88	2.5	22.00	16.00	1.69	2.5	63	235	EXB-18248 N34
EXB-18410 N34	16.38	22.13	15.00	21.00	17.23	23.23	10.00	22.38	28.38	13.75	13.00	19.00	21.00	27.00	0.25	2.32	6.88	10.94	21.88	6.00	8.56	7.94	15.88	2.5	22.00	16.00	1.69	2.5	63	251	EXB-18410 N34
EXB-18308 N34	16.00	19.00	15.00	28.00	17.87	30.80	8.00	22.37	35.37	12.37	13.25	26.50	21.00	34.50	0.25	2.50	4.88	14.44	28.88	5.18	6.06	7.94	15.90	2.5	29.00	16.00	2.07	2.5	77	317	EXB-18308 N34
EXB-18368 N34	16.00	34.00	15.00	33.00	17.37	35.37	8.00	22.38	40.38	12.38	13.25	31.50	21.25	39.50	0.25	2.50	4.88	16.94	33.88	5.18	6.06	7.94	15.88	2.5	34.00	16.00	2.07	2.5	78	366	EXB-18368 N34
EXB-18610 N34	16.00	34.00	15.00	33.00	17.23	35.23	10.00	22.38	40.38	14.38	13.25	31.50	21.25	39.50	0.25	2.50	6.88	16.94	33.88	6.18	8.06	7.94	15.88	2.5	34.00	16.00	2.07	2.5	78	394	EXB-18610 N34
EXB-20611 N34	18.75	34.75	16.75	32.75	20.14	36.14	11.13	26.44	42.44	15.56	15.75	31.75	23.75	39.75	0.25	2.47	8.44	16.72	33.97	6.88	8.47	8.72	17.47	2.5	34.88	18.88	2.08	2.5	91	493	EXB-20611 N34
EXB-24248 N34	22.25	22.25	21.00	21.00	23.37	23.37	8.06	28.38	28.38	12.19	19.50	19.50	27.50	27.50	0.25	2.88	5.50	10.88	21.88	5.88	5.50	10.94	21.88	2.5	22.00	22.00	1.94	2.5	81	323	EXB-24248 N34
EXB-24410 N34	22.25	22.25	21.00	21.00	23.23	23.23	10.06	28.38	28.38	14.19	19.50	19.50	27.50	27.50	0.25	2.88	7.50	10.88	21.88	6.88	7.50	10.94	21.88	2.5	22.00	22.00	1.94	2.5	81	342	EXB-24410 N34
EXB-24308 N34	23.00	29.00	21.00	27.00	24.00	30.00	8.12	28.38	35.25	12.40	19.56	25.56	27.56	33.56	0.25	2.47	5.75	14.00	28.00	5.35	5.75	11.00	22.00	3.0	28.00	22.00	1.97	2.5	70	442	EXB-24308 N34
EXB-24368 N34	23.00	35.00	21.00	33.00	24.00	36.00	8.12	29.25	41.25	12.40	19.56	31.56	27.56	39.56	0.25	2.47	5.75	17.00	34.00	5.35	5.75	11.00	22.00	3.0	34.00	22.00	1.88	2.5	77	478	EXB-24368 N34
EXB-24610 N34	23.00	35.00	21.00	33.00	24.00	36.00	10.12	29.25	41.25	14.40	19.56	31.56	27.56	39.56	0.25	2.47	7.75	17.00	34.00	6.35	7.75	11.00	22.00	3.0	34.00	22.00	1.88	2.5	77	507	EXB-24610 N34

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Harsh & Hazardous

HUBBELL ELECTRICAL PRODUCTS
A Division of HUBBELL INCORPORATED (Delaware)
2112 Fenton Logistics Park Blvd
Fenton, Missouri 63026 USA

INSTALLATION, OPERATION & MAINTENANCE DATA SHEET

SERIES EXB-N34 CEN & EXBLT-N4 CEN
SERIES EXB-N34 & EXBLT-N4
Empty Enclosures and Controllers

ENCLOSURE CATALOG NUMBER	INTERNAL DIMENSIONS						EXTERNAL DIMENSIONS		MOUNTING DIMENSIONS			CONDUIT AREA						OPERATOR AREA SPECIFICATION			MIN THK. AT C'BORE	MAX. DIA C'BORE	MAX # OF OPER.	UNIT WGT (lbs)	ENCLOSURE CATALOG NUMBER
	PAN			INTERNAL VOLUME																					
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z					
EXBLT-664 N4	5.00	5.00	3	3	5.73	5.73	4.00	10.31	10.31	5.94	N/A	4.00	7.88	N/A	0.19	1.18	2.81	2.32	4.63	2.75	2.81	2.31	4.63	2.5	5.00	5	N/A	N/A	4	17	EXBLT-664 N4
EXBLT-684 N4	5.00	7.00	3	5	5.75	7.75	4.00	10.25	12.25	5.94	N/A	4.00	7.88	N/A	0.19	1.18	2.81	3.32	6.63	2.75	2.81	2.31	4.63	2.5	7.00	5	N/A	N/A	6	20	EXBLT-684 N4
EXBLT-686 N4	5.00	7.00	3	5	5.75	7.75	6.00	10.25	12.25	7.94	N/A	4.00	7.88	N/A	0.19	1.18	4.18	3.25	6.50	3.75	4.81	2.25	4.50	2.5	7.00	5	N/A	N/A	6	23	EXBLT-686 N4
EXBLT-886 N4	7.00	7.00	5	5	7.59	7.59	6.00	12.31	12.31	7.94	N/A	6.00	9.88	N/A	0.19	1.18	4.81	3.25	6.50	3.75	4.81	3.25	6.50	2.5	7.00	7	N/A	N/A	9	27	EXBLT-886 N4
EXBLT-6124 N4	5.00	11.00	3	9	5.75	11.75	4.00	10.68	16.68	5.88	N/A	7.82	7.88	N/A	0.19	1.18	2.81	5.44	10.88	2.75	2.81	2.44	4.88	2.5	11.00	5	N/A	N/A	8	29	EXBLT-6124 N4
EXBLT-6126 N4	5.00	11.00	3	9	5.75	11.75	6.00	10.68	16.68	7.88	N/A	7.82	7.88	N/A	0.19	1.18	4.18	5.38	10.75	3.75	4.81	2.38	4.75	2.5	11.00	5	N/A	N/A	8	32	EXBLT-6126 N4
EXBLT-8104 N4	7.00	9.00	5	7	7.73	9.73	4.00	12.31	14.31	5.94	N/A	8.00	9.88	N/A	0.19	1.18	2.81	4.32	8.63	2.75	2.81	3.32	6.63	2.5	9.00	7	N/A	N/A	12	28	EXBLT-8104 N4
EXBLT-8106 N4	7.00	9.00	5	7	7.59	9.59	6.00	12.31	14.31	7.94	N/A	8.00	9.88	N/A	0.19	1.18	4.18	4.25	8.50	3.45	4.81	3.25	6.50	2.5	9.00	7	N/A	N/A	12	31	EXBLT-8106 N4
EXBLT-8126 N4	7.00	11.00	5	9	8.00	12.00	6.00	13.25	17.25	8.01	3.82	7.82	10.38	14.38	0.19	1.78	3.75	5.00	10.00	3.66	3.75	3.00	6.00	2.5	11.00	7	N/A	N/A	12	47	EXBLT-8126 N4
EXBLT-8128 N4	7.00	11.00	5	9	8.00	12.00	8.00	13.25	17.25	10.01	3.82	7.82	10.38	14.38	0.19	1.78	5.75	4.94	9.88	4.66	5.75	2.94	5.88	2.5	11.00	7	N/A	N/A	12	52	EXBLT-8128 N4
EXBLT-9116 N4	8.00	10.00	6	8	9.00	11.00	6.00	13.31	15.31	7.94	N/A	7.50	10.88	N/A	0.19	1.18	4.18	4.75	9.50	3.45	4.81	3.75	7.50	2.5	9.00	7	N/A	N/A	12	40	EXBLT-9116 N4
EXBLT-10106 N4	9.00	9.00	7	7	10.00	10.00	6.00	15.25	15.25	8.19	4.94	4.94	12.94	12.94	0.25	1.91	3.75	4.00	8.00	3.79	3.75	4.00	8.00	2.5	9.00	9	N/A	N/A	12	49	EXBLT-10106 N4
EXBLT-10108 N4	9.00	9.00	7	7	10.00	10.00	8.00	15.25	15.25	10.19	4.94	4.94	12.94	12.94	0.25	1.91	5.75	3.94	7.88	4.79	5.75	3.94	7.88	2.5	9.00	9	N/A	N/A	12	54	EXBLT-10108 N4
EXBLT-10146 N4	9.00	13.00	7	11	10.00	14.00	6.00	15.25	19.25	8.19	4.94	8.94	12.94	16.94	0.25	1.91	3.75	6.00	12.00	3.79	3.75	4.00	8.00	2.5	13.00	9	N/A	N/A	15	60	EXBLT-10146 N4
EXBLT-10148 N4	9.00	13.00	7	11	10.00	14.00	8.00	15.25	19.25	10.19	4.94	8.94	12.94	16.94	0.25	1.91	5.75	5.94	11.88	4.79	5.75	3.94	7.88	2.5	13.00	9	N/A	N/A	15	65	EXBLT-10148 N4
EXBLT-12126 N4	10.50	10.50	9	9	11.50	11.50	6.00	16.37	16.37	8.19	6.94	6.94	14.94	14.94	0.25	1.88	3.81	4.69	9.38	4.00	3.81	4.69	9.38	2.5	10.00	10	N/A	N/A	16	56	EXBLT-12126 N4
EXBLT-12128 N4	10.50	10.50	9	9	11.37	11.37	8.00	16.37	16.37	10.19	6.94	6.94	14.94	14.94	0.25	1.88	5.81	4.63	9.25	5.00	5.81	4.63	9.25	2.5	10.00	10	N/A	N/A	16	61	EXBLT-12128 N4
EXBLT-12186 N4	10.00	16.00	9	15	11.88	17.88	6.00	16.38	22.38	8.44	6.94	12.88	14.94	20.88	0.25	2.06	3.13	7.94	15.88	3.88	3.75	4.94	9.88	2.5	16.00	10	N/A	N/A	28	82	EXBLT-12186 N4
EXBLT-12188 N4	10.00	16.00	9	15	11.88	17.88	6.00	16.38	22.38	10.44	6.94	12.88	14.94	20.88	0.25	2.06	5.13	7.94	15.88	4.88	5.75	4.94	9.88	2.5	16.00	10	N/A	N/A	28	89	EXBLT-12188 N4
EXBLT-12246 N4	10.25	22.25	9	21	11.88	23.88	6.00	16.38	28.38	8.57	6.94	18.88	14.91	26.88	0.25	2.13	3.13	10.94	21.88	3.94	3.81	4.94	9.88	2.5	22.25	10.3	N/A	N/A	36	110	EXBLT-12246 N4
EXBLT-12248 N4	10.25	22.25	9	21	11.88	23.88	6.00	16.38	28.38	10.57	6.94	19.88	14.91	26.88	0.25	2.13	5.13	10.94	21.88	4.94	5.81	4.94	9.88	2.5	22.25	10.3	N/A	N/A	36	122	EXBLT-12248 N4
EXBLT-122412 N4	10.25	22.25	9	21	11.88	23.88	12.00	16.38	28.38	14.69	6.94	20.88	14.91	26.88	0.25	2.13	9.13	10.94	21.88	6.94	9.81	4.94	9.88	2.5	22.25	10.3	N/A	N/A	36	157	EXBLT-122412 N4
EXBLT-14146 N4	13.00	13.00	11	11	14.50	14.50	6.00	19.25	19.25	8.44	9.00	9.00	17.00	17.00	0.25	2.09	3.75	6.00	12.00	3.97	3.75	6.00	12.00	2.5	13.00	13	N/A	N/A	25	82	EXBLT-14146 N4
EXBLT-14148 N4	13.00	13.00	11	11	14.50	14.50	8.00	19.25	19.25	10.44	9.00	9.00	17.00	17.00	0.25	2.09	5.75	6.00	12.00	4.97	5.75	6.00	12.00	2.5	13.00	13	N/A	N/A	25	88	EXBLT-14148 N4
EXBLT-14248 N4	13.00	22.25	11	21	14.50	24.50	8.00	19.25	29.25	10.57	9.00	19.38	17.00	27.38	0.25	2.09	5.75	11.00	22.00	4.97	5.75	6.00	12.00	2.5	22.00	16	N/A	N/A	45	142	EXBLT-14248 N4
EXBLT-14308 N4	13.00	29.00	11	27	14.50	30.50	8.00	19.25	35.25	10.57	9.00	26.25	17.00	34.25	0.25	2.09	5.75	14.44	28.88	4.97	5.75	6.00	12.00	2.5	29.00	16	N/A	N/A	55	166	EXBLT-14308 N4
EXBLT-16166 N4	14.00	14.00	13	13	15.88	15.88	6.00	20.38	20.38	8.44	10.94	10.94	17.19	18.94	0.25	2.06	3.75	6.94	13.88	4.18	3.75	6.94	13.88	2.5	14.00	14	N/A	N/A	36	91	EXBLT-16166 N4
EXBLT-16168 N4	14.00	14.00	13	13	15.88	15.88	8.00	20.38	20.38	10.44	10.94	11.94	17.19	18.94	0.25	2.06	5.75	6.94	13.88	5.18	5.75	6.94	13.88	2.5	14.00	14	N/A	N/A	36	98	EXBLT-16168 N4
EXBLT-16248 N4	14.50	23.00	13	21	16.50	24.50	8.00	21.25	29.25	10.69	10.94	19.38	19.38	27.38	0.25	2.34	5.75	11.00	22.00	5.22	5.75	7.00	14.00	2.5	22.00	14	N/A	N/A	40	166	EXBLT-16248 N4
EXBLT-162410 N4	14.50	23.00	13	21	16.50	24.50	10.00	21.25	29.25	12.69	10.94	19.38	19.38	27.38	0.25	2.34	7.75	11.00	22.00	6.22	7.75	7.00	14.00	2.5	22.00	14	N/A	N/A	40	182	EXBLT-162410 N4

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Electrical Maintenance Instructions

Electrical Data:
Rated Voltage: Up to 690 Volts Rated Current: 1000 Amps
Maximum Conductor Size: 500 mm^2 (1000MCM) Maximum

Pilot Devices and Operating Handle Assemblies: Killark's "G" series pilot devices and "EXH / B7" series operating handles may be factory or field assembled in this enclosure. The installation of pilot devices, operating handles and internal components must comply to the spacing requirements in FIGURE 6. The Killark factory must do the machining for operators and handles. Other manufacturers' pilot devices which are certified "Ex d" components per EN 60079-1 may be used.

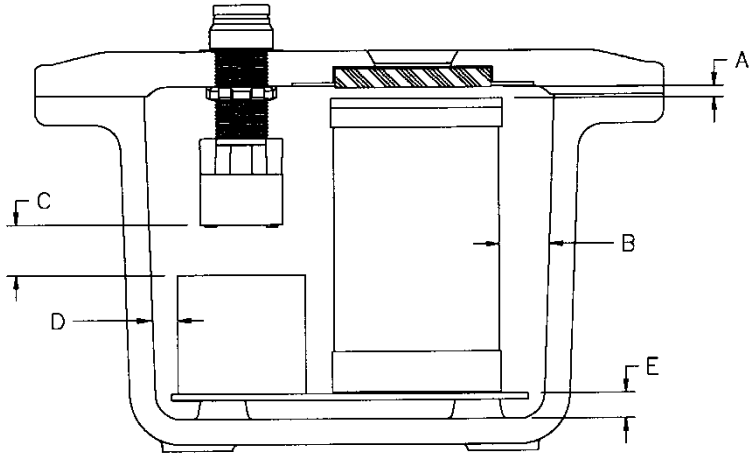
Fuses: If fuses are installed, an external caution label must be provided with the following information: "Change fuse in the de-energized state only. Use *** Volt ** Amp (class) Fuse."

Batteries: Operation of batteries and storage of batteries in this enclosure must be such that short-circuits, overload and overcharging are avoided. Components that are fed by the internal voltage source are to be covered by a safe-to-touch method. An external caution label must be provided with the following marking: "Attention: Internal Voltage Source."

Heat Producing components: If components are installed inside the enclosure that have a surface temperature above the temperature class, an external caution label must be provided with the following marking: "Attention: Hot surfaces in the interior. Open housing only after a waiting time of 15 minutes."

Capacitors: When capacitors are installed in the enclosure, the energy for group IIB is limited to 0.06mJ (VDE 0165, section 6.1.5) by the appropriate protective elements.

FIGURE 6: "EXB/EXBLT" ENCLOSURE / DEVICE SPACING



"EXB" ENCLOSURE / DEVICE SPACINGS

A	1/16" (1.58mm) MIN.
B	1/2" (12.7mm) MIN.
C	1" (25.4mm) MIN.
D	1/2" (12.7mm) MIN.
E	1/2" (12.7mm) REF.

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MAXIMUM WATTAGE CHART

Power loss when used in temperature class T6 and T5 are as follows;

Enclosure	T6 Max Watts	T5 Max Watts	Enclosure	T6 Max Watts	T5 Max Watts
EXB/EXBLT-664	95	135	EXB/EXBLT-14146	280	385
EXB/EXBLT-886	130	185	EXB/EXBLT-14148	315	465
EXB/EXBLT -8104	130	185	EXB/EXBLT-16166	315	460
EXB/EXBLT -8106	155	225	EXB/EXBLT-16168	340	500
EXB/EXBLT -8126	185	270	EXB/EXBLT-16248	495	735
EXB/EXBLT -8128	205	310	EXB/EXBLT-162410	530	785
EXBLT-9116	185	270	EXB-18186	400	585
EXB/EXBLT -10106	195	280	EXB-18188	440	650
EXB/EXBLT -10108	210	310	EXB-18248	495	740
EXB/EXBLT -10146	235	335	EXB-182410	535	790
EXB/EXBLT -10148	255	380	EXB-18368	685	1020
EXB/EXBLT -12126	205	310	EXB-183610	725	1085
EXB/EXBLT -12128	240	350	EXB-203611	870	1300
EXB/EXBLT-12186	280	385	EXB-24248	610	910
EXB/EXBLT-12188	315	465	EXB-242410	650	975
EXB/EXBLT-12246	350	500	EXB-24308	650	975
EXB/EXBLT-12248	385	565	EXB-24368	850	1265
EXB/EXBLT-122412	495	740	EXB-243610	900	1350
EXB-12368	550	795			
EXB-123610	590	875			

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