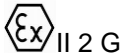
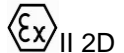




EU Type Examination Certificate

Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

Manufacturer	Killark Division, Hubbell Inc.
Address	2112 Fenton Logistics Park Blvd. Fenton, MO 63026 USA
Component	Flameproof enclosure Model. EXB, and EXB LT. Series. Model # detail refer to Annex below
Markings	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  Ex db IIB+H2 Gb </div> <div style="text-align: center;">  Ex tb IIIC Db IP66 -50°C ≤ Tamb ≤ +70°C </div> </div>
Description	<p>The EXB series is a line of Copper-Free Cast Aluminum enclosures that utilize flat flame paths, NPT, NPSM, and metric entry threads to obtain hazardous location/Ex rating of Ex db IIB+H2 Gb, Ex tb IIIC Db IP66, The service temperature is -50°C to +70°C. The light version model EXBLT Series has identical flame paths but it optimizes the wall thickness and uses a plate stock cover or of a cast cover. The options for the light version has reduced to optimize the wall thickness. The light version EXBLT has the same technical aspects of the original EXB series found compliance to the requirements of the applicable standards.</p>
Schedule of Limitations (Conditions of Certification)	<p>The following conditions relate to safe installation and/or use of the equipment.</p> <ul style="list-style-type: none"> • The enclosures shall be installed to a flat rigid surface using the mounting means provided. • For conduit/cable and cover drilling and tapping and layout instructions, refer to drawing 18047 sheets 1-3 of 5. • At least 40% of the cross-sectional area must remain free to permit unimpeded gas flow and therefore unrestricted development of an explosion. • All unused openings must be fitted with certified flameproof blanking elements and have a minimum gas and IP marking equal to the marking on the enclosure. • The enclosure certification applies to the equipment without cable glands. When installing cable glands, they must be certified as flameproof and have a minimum gas and IP marking equal to the marking on the enclosure. • The enclosure certification applies to equipment without conduit



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seal fittings(stopping box). When installing conduit seal fitting, they must be certified as flameproof and have minimum gas and IP marking equal to the marking on the enclosure.

- All conduit entries shall have a sealing fitting (stopping box) at the enclosure wall.
- The end user shall provide the earthing/bonding means as necessary.
- The flanged joint has following parameters: width: 24.7 mm, Gap less than 0.0635 mm

Certificate Issue #	00
Certificate History	Initial release.
Associated Report	ATX35478-23A

The components are specified in the description of this certificate and the documents to which it refers.

QPS Europe BV, Berg en Dalseweg 122, 6522BW Nijmegen, Notified Body Number 2876, The Netherlands,, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that those components have been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The 'U' suffix after the certificate number indicates that the components are subject to schedule of limitation (affecting correct installation or safe use).

This EU Type Examination certificate relates only to the design and construction of the specified equipment or component. Further requirements of Directive 2014/34/EU Article 13 apply to the manufacturer of the equipment or component and are separately certified.

Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the confidential report, has been demonstrated through compliance with the following documents:

Standard
EN IEC 60079-0: 2018
EN 60079-1:2014
EN 60079-31: 2014
EN 60529:1992+A2:2013



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The following documents describe the component defined in this certificate:

Issue: 0

Technical Documents			
Title:	Drawing No.:	Rev. Level:	Date:
EXB WITH CAST COVER CERTIFICATION DWG FOR ATEX/IECEX	18047-1	E	Nov. 11, 2020
EXB/LT CERTIFICATION DWG FOR ATEX/IECEX	18047-2	D	Feb. 12, 2021
EXB-1224 N34 MACHINED COVER FOR ATEX/IECEX	18047-3	C	Nov. 11, 2020
EXBLT WITH PLATE COVER CERTIFICATION DWG FOR ATEX/IECEX	18047-4	A	Nov. 11, 2020
EQUIPMENT INST. DETAIL FOR ATEX/IECEX	18047-6	A	Feb. 12, 2021

Issued By: Rob Kohuch

Signature:

Date: February 18, 2021



i. Annex I, Equipment Name/Model Number

Flameproof Enclosure empty enclosure (component) EXB and EXBLT series.

Nomenclature

Item	Detail														
Type identification	Series EXB P- 8 10 6 N34 (Sample)														
	<table border="1" style="width: 100%; text-align: center;"> <tr> <td>EXB</td> <td>P</td> <td>8</td> <td>10</td> <td>6</td> <td>N34</td> </tr> <tr> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>6</td> </tr> </table>	EXB	P	8	10	6	N34	1	2	3	4	5	6		
	EXB	P	8	10	6	N34									
	1	2	3	4	5	6									
	1: Box Series Constant: EXB or EXBLT														
	2: Cover Type: Blank or “c” : Sand Cast Cover, or P : Flat Aluminum Plate														
	3: Width normal: 6-24														
	4: Length Normal: 6-36														
	5: Depth Normal: 4-10														
	6: Environmental Rating:														
<table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th>EXB</th> <th>EXBLT</th> <th></th> </tr> </thead> <tbody> <tr> <td>N34</td> <td>N4</td> <td>Type 4 Steel External hardware</td> </tr> <tr> <td>N34 SU-1</td> <td>N4X</td> <td>Type 4X Stainless Steel external hardware</td> </tr> <tr> <td>N34TL</td> <td>N4TL</td> <td>Type 4x Tri-lead Stainless Steel External hardware.</td> </tr> <tr> <td>N34CEN</td> <td>N4CEN</td> <td>Type 4X, IP 66 ATEX & IECEx Certification</td> </tr> </tbody> </table>	EXB	EXBLT		N34	N4	Type 4 Steel External hardware	N34 SU-1	N4X	Type 4X Stainless Steel external hardware	N34TL	N4TL	Type 4x Tri-lead Stainless Steel External hardware.	N34CEN	N4CEN	Type 4X, IP 66 ATEX & IECEx Certification
EXB	EXBLT														
N34	N4	Type 4 Steel External hardware													
N34 SU-1	N4X	Type 4X Stainless Steel external hardware													
N34TL	N4TL	Type 4x Tri-lead Stainless Steel External hardware.													
N34CEN	N4CEN	Type 4X, IP 66 ATEX & IECEx Certification													
7: Suffixes ++:															
<p>SU3-****: Type 4X drain & breather installed Group BCD</p> <p>SU3-****: ATEX/IECEx drain & breather installed in Group b, Ex-d _IIB</p> <p>SU2: Install hinges- EXB-8 & smaller</p> <p>SU9: Special Paint.</p> <p>SU93: Do not paint</p> <p>SU1: Stainless Steel Cover bolts 302, 304 or 316.</p> <p>MOD:</p> <ul style="list-style-type: none"> • Openings: NPT, NPSM, METRIC and UN series. • Windows Round “GL” Series and Rectangular “GLXR” Series • “G” Series Operators, Flameproof Operator, Device Actuator Handles. • As defined in the schedule drawing 18047 															

The above table represent the standard sizes of enclosure, Non-standard size enclosure are permitted, provided that they fall between the sizes list in the above Table, Larger or smaller enclosure than those listed, are not permitted. Distance between the fastening mechanisms of the enclosure are to be no larger than the covered by this certification.



Annex II. Cover sizes

The outlet box covers are made of cast aluminum. The dimensions given below are applicable to the outlet box covers with or without the gasket groove.

Series EXB Cat. No. Suffix	Overall Dimension		Min Thickness		Flange
	Width	Length	Center	Elsewhere	Thickness
664	10 5/16	10 5/16	9/16	9/16	5/8
684	10 1/4	12 1/4	9/16	9/16	5/8
6124	10 63/100	16 63/100	47/50	47/50	1
886	12 5/16	12 5/16	11/16	11/16	5/8
8104, 8106	12 5/16	14 5/16	7/8	7/8	5/8
8126, 8128	13 1/4	17 1/4	7/8	7/8	1
10106, 10108	15 1/4	15 1/4	1 1/8	1 1/8	1
10146, 10148	15 1/4	19 1/4	1 1/8	1 1/8	1
12126, 12128	16 3/8	16 3/8	1 9/64	1 9/64	1
12186, 12188	16 3/8	22 3/8	1 5/16	1 5/32	1
12246, 12248, 122412	16 3/8	28 3/8	1 1/2	1 9/32	1
12368, 123610	17 1/4	41 1/4	1 41/100	1 41/100	1
14146, 14148	19 1/4	19 1/4	1 7/16	1 7/16	1
16166, 16168	20 3/8	20 3/8	1 7/16	1 7/16	1
16248, 162410	21 1/4	29 1/4	1 3/4	1 3/4	1
18186, 18188	23 1/4	23 1/4	1 3/4	1 3/4	1
18248, 182410	22 3/8	28 3/8	1 3/4	1 1/3	1 3/16
18368, 183610	22 3/8	40 3/8	2 1/8	1 23/32	1 1/4
203611	26 13/16	42 13/16	2 9/64	2 11/64	1 19/64
24248, 24248	28 3/8	38 3/8	2	2	1 5/16
24368, 243610	29 1/4	41 1/4	2	2	1 1/64



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Series EXBLT Cat. No. Suffix	Overall Dimension			Min Thickness	Flange
	Width	Length	High	Cover	Thickness
664	10 31/100	10 31/100	5 47/50	5/8	1/2
684	10 1/4	12 1/4	5 47/50	5/8	1/2
686	10 1/4	12 1/4	7 47/50	5/8	1/2
6124, 6126	10 17/25	16 17/25	5 22/25	5/8	1/2
886	10 17/25	16 17/25	7 22/25	5/8	1/2
8104, 8106	12 31/100	12 31/100	7 47/50	5/8	1/2
8126, 8128	12 31/100	14 31/100	7 22/25	5/8	5/8
9116	13 31/100	15 31/100	7 47/50	5/8	5/8
10106, 10108	15 1/4	15 1/4	10 19/100	5/8	5/8
10146, 10148	15 1/4	19 1/4	8 19/100	5/8	5/8
12126, 12128	16 37/100	16 37/100	10 19/100	5/8	5/8
12186, 12188	16 3/8	23 1/4	8.44/10.44	7/8	1
12246, 12248, 122412	16 3/8	28 3/8	8.57/10.57/14.69	7/8	1
14146, 14148	19 1/4	19 1/4	8.44/10.44	7/8	1
14248	19 1/4	18 3/8	10.57	7/8	1
14308	19 1/4	35 1/4	10.57	7/8	1
16166, 16168	20 3/8	20 3/8	8.44 / 10.44	7/8	1
16248, 162410	20 3/8	29 1/4	10.69 / 12.96	7/8	1



Annex III. Fastener Matrix Table

Series EXB Cat. No. Suffix	ENCLOSURE COVER BOLTS - CADMIUM			
	Size	Length	QTY	Din
664	M12 x1.75-6g	35mm	8	9.8
684	M12 x1.75-6g	35mm	10	9.8
6124	M12 x2.00-6g	35mm	12	9.8
886	M12 x1.75-6g	35mm	12	9.8
8104, 8106	M12 x1.75-6g	35mm	14	9.8
8126, 8128	M14 x2.00-6g	55mm	12	9.8
10106, 10108	M14 x2.00-6g	55mm	12	9.8
10146, 10148	M14 x2.00-6g	55mm	16	9.8
12126, 12128	M14 x2.00-6g	55mm	22	9.8
12186, 12188	M14 x2.00-6g	55mm	22	9.8
12246, 12248, 122412	M14 x2.00-6g	55mm	28	9.8
12368, 123610	M14 x2.00-6g	55mm	38	9.8
14146, 14148	M14 x2.00-6g	55mm	20	9.8
16166, 16168	M14 x2.00-6g	55mm	24	9.8
16248, 162410	M14 x2.00-6g	55mm	30	9.8
18186, 18188	M14 x2.00-6g	55mm	24	9.8
18248, 182410	M14 x2.00-6g	65mm	34	9.8
18308	M14 x2.00-6g	65mm	40	9.8
18368, 183610	M14 x2.00-6g	65mm	44	9.8
203611	M14 x2.00-6g	65mm	48	9.8
24248, 242410	M14 x2.00-6g	65mm	40	9.8
24308	M14 x2.00-6g	65mm	50	9.8
24368, 243610	M14 x2.00-6g	65mm	56	9.8



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Series EXBLT	ENCLOSURE COVER BOLTS - CADMIUM			
Cat. No. Suffix	Size	Length	QTY	Din
664	M12 x1.75-6g	35mm	8	9.8
684	M12 x1.75-6g	35mm	10	9.8
686	M12 x1.75-6g	35mm	12	9.8
6124, 6126	M14 x2.0-6g	55mm	12	9.8
886	M12 x1.75-6g	35mm	14	9.8
8104, 8106	M12 x1.75-6g	55mm	14	9.8
8126, 8128	M14 x2.00-6g	35mm	12	9.8
9116	M12 x1.75-6g	35mm	14	9.8
10106, 10108	M14 x2.00-6g	55mm	12	9.8
10146, 10148	M14 x2.00-6g	55mm	16	9.8
12126, 12128	M14 x2.00-6g	55mm	16	9.8
*12246, 12248, 122412	M14 x2.00-6g	55mm	28	9.8
*14146, 14148	M14 x2.00-6g	55mm	20	9.8
*14248	M14 x2.00-6g	55mm	28	9.8
*14308	M14 x2.00-6g	55mm	36	9.8
*16166, 16168	M14 x2.00-6g	55mm	24	9.8
*16248, 162410	M14 x2.00-6g	55mm	130	9.8



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Annex IV Electrical Rating / Power loss for use in temperature class

Rated voltage: 690 V Max. Conductor Size: 500 MCM / 300mm²

	EXBLT-XXXX.N4 Series	db IIB+H2		tb	
		T6	T5	T85°C	T100°C
EXB-664, EXB-684 EXB-6124	EXBLT-664, EXBLT-684, EXBLT-686, EXBLT-6124, EXBLT-6126	95W	135W	95W	135W
EXB-886	EXBLT-886	130W	185W	130W	185W
EXB-8104	EXBLT-8104	130W	185W	130W	185W
EXB-8106	EXBLT-8106	155W	225W	155W	225W
EXB-8126	EXBLT-8126	185W	270W	185W	270W
EXB-8128	EXBLT-8128	205W	310W	205W	310W
EXB-9116	EXBLT-9116	205W	310W	205W	310W
EXB-10106	EXBLT-10106	195W	280W	195W	280W
EXB-10108	EXBLT-10108	210W	310W	210W	310W
EXB-10146	EXBLT-10146	235W	335W	235W	335W
EXB-10148	EXBLT-10148	255W	380W	255W	380W
EXB-12126	EXBLT-12126	205W	310W	205W	310W
EXB-12128	EXBLT-12128	240W	350W	240W	350W
EXB-12186	*EXBLT-12186	280W	385W	280W	385W
EXB-12188	*EXBLT12188	315W	465W	315W	465W
EXB-12246	*EXBLT-12246	350W	500W	350W	500W
EXB-12248	*EXBLT-12248	385W	565W	385W	565W
EXB-122412	*EXBLT-122412	495W	740W	485W	740W
EXB-12368	N/A	550W	795W	550W	795W
EXB-123610	N/A	590W	875W	590W	875W
EXB-14146	*EXBLT-14146	280W	385W	280W	385W
EXB-14148	*EXBLT-14148	315W	465W	315W	465W
--	*EXBLT-14248	315W	465W	315W	465W
--	*EXBLT-14308	315W	465W	315W	465W
EXB-16166	* EXBLT-16166	315W	460W	315W	460W
EXB-16168	*EXBLT-16168	340W	500W	340W	500W
EXB-16248	*EXBLT-16248	495W	735W	495W	735W
EXB-162410	*EXBLT-162410	530W	785W	530W	785W
EXB-18186	N/A	400W	585W	400W	585W
EXB-18188	N/A	440W	650W	440W	650W
EXB-18248	N/A	495W	740W	495W	740W
EXB-182410	N/A	535W	790W	535W	790W
EXB-18308	N/A	535W	790W	535W	790W
EXB-18368	N/A	685W	1020W	685W	1020W
EXB-183610	N/A	725W	1085W	725W	1085W
EXB-203611	N/A	870W	1300W	870W	1300W
EXB-24248	N/A	610W	910W	610W	910W
EXB-242410	N/A	650W	975W	650W	975W
EXB-24308	N/A	650W	975W	650W	975W
EXB-24368	N/A	850W	1265W	850W	1265W
EXB-243620	N/A	900W	1350W	900W	1350W