IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEx UL 14.0060X**

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Certificate history:
Issue 2 (2020-04-30)
Issue 1 (2017-12-21)
Issue 0 (2015-02-25)

Status: **Current**

Issue No: 3

Date of Issue: 2021-11-30

Applicant: **Killark, A Div. of Hubbell Inc (Delaware)**
2112 Fenton Logistics Park Blvd.
Fenton
Missouri 63026
United States of America

Equipment: **Enclosures with Terminal Blocks, HK Series***

Optional accessory:

Type of Protection: **Flameproof "db", Dust Ignition Protection by Enclosure "tb"**

Marking: Ex db IIC T4...T3 Gb
Ex tb IIIC T110°C...T140°C Db
-60°C to +70°C
-60°C to +55°C
-60°C to +40°C

Approved for issue on behalf of the IECEx Certification Body: **Lucy Frieders**

Position: **Staff Engineer**

Signature: (for printed version)

Date: 2021-11-30

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.

Certificate issued by:

UL LLC
333 Pfingsten Road
Northbrook IL 60062-2096
United States of America

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Certificate No.: **IECEx UL 14.0060X**

Date of issue: 2021-11-30 Issue No: 3

Manufacturer: **Killark, A Div. of Hubbell Inc (Delaware)**
2112 Fenton Logistics Park Blvd.
Fenton
Missouri 63026
United States of America

Additional manufacturing locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements.This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :
The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:
A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

US/UL/ExTR14.0093/00 US/UL/ExTR14.0093/01 US/UL/ExTR14.0093/02
US/UL/ExTR14.0093/03

Quality Assessment Report:

GB/SIR/QAR16.0021/05

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EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

The terminal housing consists of a flameproof enclosure made of cast aluminium or stainless steel. The housing is used to splice and or terminate conductors by means of terminal blocks. There are two enclosure styles available: a single cover design and the double cover design. Covers are provided in multiple sizes and may contain a viewing window.

Please see Annex for additional information.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- All conductors and cable shall be suitable for minimum temperature rating as detailed in the below table:

Upper ambient 'Ta'	Ta ≤ 40˚C	Ta ≤ 55˚C	Ta ≤ 70˚C
Conductor rating	116 ˚C	131 ˚C	141 ˚C

- The window temperature must not exceed 120°C for models HKB, HKBD, 2HKB, HKSB, and 2HKSB.
- The window temperature must not exceed 97°C for models HKBX.
- The sealing cement on the windows shall not exceed 87°C for models HKB, HKBD, 2HKB, HKSB, and 2HKSB.
- All unused device openings must be fitted with a certified close up plug equivalent of the apparatus rating and must be marked with an IP66 rating.
- Flameproof joints are not to be repaired in the field. If the flame path is damaged, the enclosure is to be removed from service and replaced with a new properly working enclosure.

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
Issue 1: The ambient range has been lowered to -60°C and the ambient raised to +70°C for all cover types. In addition, standard IEC 60079-31 has been updated to the most recent edition.

Issue 2: Addition of HKBX enclosure option.

Issue 3: Update of standards to most current editions. Minor updates to markings.

Annex:

Annex to IECEx UL 14.0060X Issue 3.pdf

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Certificate No.: IECEx UL 14.0060X

Issue No.: 3

TYPE DESIGNATION

Single Port Enclosure Nomenclature

HKB	B	T	0	W	10	2
I	II	III	IV	V	VI	VII

I Back Box Type

HKB	Aluminum Box Single Port
HKBD	Aluminum Deep Box Single Port
HKSB	Stainless Steel Box Single Port
HKSBD	Stainless Steel Deep Box Single Port

II Cover Assembly

B	Blank Cover
1D	1 in. High Dome Cover
2D	2 in. High Dome Cover
4D	4 in. High Dome Cover
GL	Glass Lens Cover
1GLD	1 in. Glass Lens Cover
2GLD	2 in. Glass Lens Cover
4GLD	4 in. Glass Lens Cover

III T Terminal Enclosure

IV Side Alternate Machining

0	None
10	1/2 in. NPT
1S	1/2 in. NPSM*
20	3/4 in. NPT
2S	3/4 in. NPSM*

V Type and Manufacturer

W	Weidmuller
P	Phoenix
G	Wago
A	ABB
K	Klemsan

VI Quantity of Terminal Blocks

2.5 mm^2	10
4 mm^2	8
6 mm^2	6
10 mm^2	4

VII	Terminal Block Wire Size	
	2	2.5 mm^2
	4	4 mm^2
	6	6 mm^2
	10	10 mm^2

*Not to be used for cable or conduit connections.

Double Port Enclosure Nomenclature

2HKB	T	B	B	0	W	10	2
I	II	III	IV	V	VI	VII	VIII

I	Back Box Type	
	2HKB	Aluminum Box Double Port
	2HKSB	Stainless Steel Box Double Port
II	T	Terminal Enclosure
III	Cover Assembly	
	B	Blank Cover
	1D	1 in. high Dome Cover
	2D	2 in. high Dome Cover
	4D	4 in. high Dome Cover
	GL	Glass Lens Cover
	1GLD	1 in. Glass Lens Cover
	2GLD	2 in. Glass Lens Cover
	4GLD	4 in. Glass Lens Cover
IV	Cover Assembly	
	B	Blank Cover
	1D	1 in. high Dome Cover
	2D	2 in. high Dome Cover
	4D	4 in. high Dome Cover
	GL	Glass Lens Cover
	1GLD	1 in. Glass Lens Cover
	2GLD	2 in. Glass Lens Cover
	4GLD	4 in. Glass Lens Cover
V	Side Alternate Machining	
	0	None
	10	1/2 in. NPT
	1S	1/2 in. NPSM*
	20	3/4 in. NPT
	2S	3/4 in. NPSM*
VI	Type and Manufacturer	
	W	Weidmuller
	P	Phoenix
	G	Wago
	A	ABB
	K	Klemsan

VII Quantity of Terminal Blocks

2.5 mm^2	10
4 mm^2	8
6 mm^2	6
10 mm^2	4

VIII Terminal Block Wire Size

2	2.5 mm^2
4	4 mm^2
6	6 mm^2
10	10 mm^2

*Not to be used for cable or conduit connections.

HKBX Enclosure Nomenclature

HKBX -	B	T	0	W	10	2
	I	II	IV	V	VI	VII

I Cover Assembly

B	Blank Cover
2D	2 in. High Dome Cover
GL	Glass Lens Cover
2GLD	2 in. Glass Lens Cover

II T Terminal Enclosure

IV Side Alternate Machining

SM	3/4 in. NPT
S	3/4 in. NPSM*
M25	M25 Metric
MX	Mix of sizes

V Type and Manufacturer

W	Weidmuller
P	Phoenix
G	Wago
A	ABB
K	Klemsan

VI Quantity of Terminal Blocks

2.5 mm^2	10
4 mm^2	8
6 mm^2	6
10 mm^2	4

VII Terminal Block Wire Size

2	2.5 mm^2
4	4 mm^2
6	6 mm^2
10	10 mm^2

*Not to be used for cable or conduit connections.

These are the ambient ranges allowed with the terminal blocks:

Ambient Temperature Marked on Nameplate	Manufacturer	Terminal Series
-60°C to 70°C	Weidmuller	WDU and WPE
-50°C to 40°C	Weidmuller	PDU
-50°C to 40°C	Klemsan Elektrik	AVK
-60°C to 68°C	Klemsan Elektrik	MVK, PIK, PUK, and PYK
-55°C to 70°C	ABB	ZS and ZK
-55°C to 70°C	WAGO	2000, 2002, 2010, and 2016
-55°C to 68°C	WAGO	2001, 2004, and 2006
-60°C to 70°C	Phoenix	UT, PT, ST, QT, UK, and USLKG

PARAMETERS RELATING TO THE SAFETY

630 V, 20 A
630 V, 32 A
630 V, 41 A
630 V, 60 A

MARKING

Marking has to be readable and indelible; it has to include the following indications:

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