

EU-TYPE EXAMINATION CERTIFICATE



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

EU-Type Examination Certificate Number: **DEMKO 06 ATEX 141023X Rev. 2**

Product: **HK Series Enclosures with Terminal Blocks**

Manufacturer: **Killark, Div. of Hubbell Inc. (Delaware)**

Address: **2112 Fenton Logistics Park Blvd., Fenton, MO 63026 USA**

This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

UL International Demko A/S, notified body number 0539 in accordance with Article 17 of the Council Directive 2014/34/EU of 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.
The examination and test results are recorded in confidential report no. **4788890898.7.1**

Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2012+A11:2013

EN 60079-1:2014

EN 60079-31:2014

If the sign "X" is placed after the certificate number, it indicates that the product is subject to special conditions for safe use specified in the schedule to this certificate.

This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by the certificate.

The marking of the product shall include the following:

II 2 G Ex db IIC T4...T3 Gb

II 2 D Ex tb IIIC T110°C...T140°C Db

Certification Manager

Jan-Erik Storgaard

This is to certify that the sample(s) of the Product described herein ("Certified Product") has been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the ATEX Product Certification Program Requirements. This certificate and test results obtained apply only to the product sample(s) submitted by the Manufacturer. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured product. UL has not established Follow-Up Service or other surveillance of the product. The Manufacturer is solely and fully responsible for conformity of all product to all applicable Standards, specifications, requirements or Directives. The test results may not be used, in whole or in part, in any other document without UL's prior written approval.

Date of issue: 2007-12-19

Re-issued: 2020-04-30

Notified Body

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Description of Product

The terminal housing consists of a flameproof enclosure made of cast aluminum 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.

Nomenclature for HK Series:

Single Port Enclosure Nomenclature

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

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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
	2HKS	Stainless Steel Box Double Port

II	T	Terminal Enclosure
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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

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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
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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

Temperature range

Ambient Temperature Range

-60°C to +70 °C
-60°C to +55°C
-60°C to +40°C

Temperature class (Gas)

T3
T4
T4

Maximum Surface Temperature (Dust)

T140°C
T125°C
T110°C

Electrical data

Maximum Conductor Size, mm ²	Maximum Voltage, V	Maximum Amperage, A	Power, W	Maximum Number of Terminals
2.5 (12 AWG)	630	20	12600	10
4 (10 AWG)	630	32	18900	8
6 (8 AWG)	630	41	25830	6
10 (6 AWG)	630	60	37800	4

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Routine tests

Routine tests according to EN 60079-1 cl. 16 are not required, as the enclosures have been successfully tested at four times the reference pressure.

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Descriptive Documents

The scheduled drawings are listed in the report no. provided under item no. [8] on page 1 of this EU-Type Examination Certificate.

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Specific conditions of use:

- 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 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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Essential Health and Safety Requirements

The Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9.

Additional information

These devices have in addition passed the tests for Ingress Protection to IP 66 in accordance with EN60529:1991+A1:2000+A2:2013.

The trademark  **KILLARK** will be used as the company identifier on the marking label.

The manufacturer shall inform the notified body concerning all modifications to the technical documentation as described in Annex III to Directive 2014/34/EU of the European Parliament and the Council of 26 February 2014.