

EC-TYPE EXAMINATION CERTIFICATE



- [1]
- [2] **Equipment or Protective System intended for use
in Potentially Explosive Atmospheres
Directive 94/9/EC**
- [3] EC-Type Examination Certificate Number: **DEMKO 06 ATEX 141023X Rev. 0**
- [4] Equipment or Protective System: **HK Series Flameproof Enclosures with Terminal Blocks**
- [5] Manufacturer: **Killark, Div. of Hubbell Inc. (Delaware)**
- [6] Address: **3940 Martin Luther King Drive, St. Louis, MO 63113 USA**
- [7] This equipment or protective system and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
- [8] UL International Demko A/S, notified body number 0539 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to design and construction of equipment and protective systems 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. **4786423001**
- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 60079-0:2012+A11:2013 EN 60079-1:2007 EN 60079-1:2014 EN 60079-31:2009
- [10] If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.
- [11] This EC-Type examination certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system.
These are not covered by the certificate.
- [12] The marking of the equipment or protective system 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

Notified Body

This is to certify that the sample(s) of the Equipment described herein ("Certified Equipment") has been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the ATEX Equipment Certification Program Requirements. This certificate and test results obtained apply only to the equipment 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 equipment. UL has not established Follow-Up Service or other surveillance of the equipment. The Manufacturer is solely and fully responsible for conformity of all equipment 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

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Schedule
EC-TYPE EXAMINATION CERTIFICATE No.
DEMKO 06 ATEX 141023X Rev. 0
Report: 4786423001

[15]

Description of Equipment or protective system

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.

Nomenclature for HK Series:

2HKB	-BC	-GLC	-T	-2	-W	10	2
I	II	III	IV	V	VI	VII	VIII

I - Indicates Series Designation

- HKB – Aluminum construction
- HKBD – Aluminum deep construction
- HKSB – 316 Stainless Steel construction
- 2HKB – Aluminum double port
- 2HKSB – 316 Stainless Steel double port

II - Indicates cover use on single chamber enclosure or on power side of double chamber enclosure

- BC – Blank cover
- GLC – Glass lens cover
- 1GLDC – 1 in. Glass lens cover
- 2GLDC – 2 in. high lens dome cover
- 4GLDC – 4 in. Glass lens cover
- 1DC – 1 in. dome cover
- 2DC – 2 in. high dome cover
- 4DC – 4 in. high dome cover

III - Indicates cover used on instrument side enclosure (Only for Cat. Nos. beginning with "2")

- BC – Blank cover
- GLC – Glass lens cover
- 1GLDC – 1 in. Glass lens cover
- 2GLDC – 2 in. high lens dome cover
- 4GLDC – 4 in. Glass lens cover
- 1DC – 1 in. dome cover
- 2DC – 2 in. high dome cover
- 4DC – 4 in. high dome cover

IV - Type of Protection

- T – ATEX Type 'd'

V - Side Alternate Machining

- 0 – None
- 1 – 1/2 in. NPT
- 2 – 3/4 in. NPT
- 2S – 3/4 in. NPSM*
- *NPSM entries are not intended for connection to conduit/cable

VI - Type and Manufacturer

- W – Weidmuller
- P – Phoenix
- G – Wago
- A – ABB
- K – Klemmsan

VII - Indicates Total Number of Terminal Blocks Installed**

- 10 - 2.5 mm²
- 8 - 4 mm²
- 6 - 6 mm²
- 4 - 10 mm²

**Total per side for the 2HKB/2HKSB enclosures

VIII - Indicates Terminal Block Wire Size

- 2 – 2.5 mm² (No. 12 AWG max.)
- 4 – 4 mm² (No. 10 AWG max.)
- 6 – 6 mm² (No. 8 AWG max.)
- 10 – 10 mm² (No. 6 AWG max.)



Temperature range

Ambient Temperature Range	Temperature class (Gas)	Maximum Surface Temperature (Dust)
-20°C to +70 °C	T3	T140°C
-20°C to +55°C	T4	T125°C
-20°C to +40°C	T4	T110°C

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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

Installation instructions

- See Special Conditions of Use

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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Report No.

Project Report No.: 4786423001 (Hazardous Location Testing)

Documents:

Description:

Nameplate Drawing W/CE For HK/2HK Series
HKB Series Enclosure with Terminal Blocks
HKB Series Enclosure with Terminal Blocks
HKB Series Enclosure with Terminal Blocks
Installation Instructions

Drawing No.:

C-20648, Sheet 3 of 3
D-21658, Sheet 1 of 3
D-21658, Sheet 2 of 3
D-21658, Sheet 3 of 3
Form No. K1295

Rev. Level:

E
B
B
B
07/14

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Specific conditions of use:

- All conductors and cable shall be suitable for minimum 140°C.
- 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

Concerning ESRs this Schedule verifies compliance with the Annex III of ATEX directive only. By placing the product on the market, the manufacturer declares compliance with other relevant Directives, and all other safety related requirements including those of Annex II of this Directive.

Additional information

These devices have successfully passed the test for Ingress Protection to IP66 in accordance with EN 60529:1991/A1 2001.

The manufacturer shall inform the notified body concerning all modifications to the technical documentation as described in ANNEX III to Directive 94/9/EC of the European Parliament and the Council of 23 March 1994.

