

EU-TYPE EXAMINATION CERTIFICATE



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

EU-Type Examination Certificate Number: **DEMKO 12 ATEX 1202251U Rev. 4**

Component: **HKH Series Flameproof/Increased Safety Contact Blocks**

Manufacturer: **Killark, A Division 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 the European Parliament and the Council, dated 26 February 2014, certifies that this component has been found to comply with the Essential Health and Safety Requirements relating to design and construction of components 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. **4788950730.1.1**

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 60079-7:2015

The sign "U" is placed after the certificate number. It indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system.

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

The marking of the component shall include the following:



I M 2

Ex db eb I Mb



II 2 G

Ex db eb IIC Gb

Certification Manager

Jan-Erik Storgaard

This is to certify that the sample(s) of the Component described herein ("Certified Component") 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 component 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 component. UL has not established Follow-Up Service or other surveillance of the product. The Manufacturer is solely and fully responsible for conformity of all products 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: 2013-01-28

Re-issued: 2019-07-29

Notified Body

UL International Demko A/S, Ballerup 5A, 2750 Ballerup, Denmark
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[13]

Schedule

[14]

EU-TYPE EXAMINATION CERTIFICATE No. DEMKO 12 ATEX 1202251U Rev. 4

[15]

Description of Component:

The Series HKH contact blocks consist of increased safety terminals and a flameproof housing. The contact housing is made from PBT, the terminals are a brass alloy, and the bushing and plunger are stainless steel. The contact block is intended to be mounted inside a suitable increased safety or flameproof enclosure and is intended for switching load, control, and signal circuits.

Nomenclature for the Series HKH Contact Blocks

HKH1 NC 20 P
I II III IV

I - Denotes basic contact block series designation
HKH1 – Contact Block Series

II - Denotes Contact Position
NC – Normally Closed Contacts
NO – Normally Open Contacts

III – Denotes Current
20 – 20 A

IV – Denotes Mounting Configuration
P – Panel Mount
D – Din Rail Mount

Electrical data

General Purpose: 690 Vac, 16 A, 50 to 60 Hz
 230 Vdc, 16A, 50 to 60 Hz
 125 Vdc, 1 A
 60 Vdc, 5.0 A

Wiring Information

Wire Range – 0.5 to 2.5 mm² (SOL or STR) and 4.0 mm² (STR)
Number of Wires – 1 or 2
Wire Type – Cu
Torque – 15 in.-lbs. (1.7 N-m)
Wire Strip - 3/8 in (10 mm)

Installation instructions

- Contact blocks are intended to be installed in a suitable Ex enclosure, where the suitability is determined in the end application.
- Contact block shall be mounted to an operator or to a din rail using the mounting means provided.
- All conductors shall be suitable for both the minimum ambient and the maximum temperature achieved in service.
- Contact block shall be mounted to provide a minimum clearance of 10 mm and minimum creepage of 16 mm.

Routine tests

- Routine tests according to EN 60079-1 cl. 16 are not required, as the contact block has been successfully tested to the overpressure requirements in Clause 15.2.3.2 for small volumes.
- A routine dielectric test according to EN 60079-7, Clause 7.1, is required on the Series HKH contact blocks either on all contact blocks or on a statistical basis according to ISO 2859-1 with an acceptance quality limit (AQL) of 0.04. The Series HKH contact blocks shall withstand the test voltage of either 2380 V r.m.s. for 1 minute or 2856 V r.m.s for 100 ms without dielectric breakdown occurring.

[16]

Descriptive Documents

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

[17]

Schedule of limitations:

- Contact the manufacturer for information on the dimensions of flameproof joints.
- The #3-28 x 0.320 in. contact block housing fasteners have a minimum yield strength of 210 MPa for stainless steel or 340 MPa for steel.
- The non-metallic contact block body was tested for a maximum service temperature of 100°C. It shall not attain a temperature more than 100°C when used in service.

[18]

Essential Health and Safety Requirements

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

Additional information

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

[13]

[14]

Schedule
EU-TYPE EXAMINATION CERTIFICATE No.
DEMKO 12 ATEX 1202251U Rev. 4

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.