



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

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

Ex COMPONENT CERTIFICATE

Certificate No.: IECEX KEM 06.0030U

Issue No: 4

Certificate history:

Status: **Current**

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Issue No. 4 (2018-12-19)

Date of Issue: **2018-12-19**

Issue No. 3 (2012-07-23)

Issue No. 2 (2009-07-27)

Issue No. 1 (2007-06-01)

Issue No. 0 (2006-10-04)

Applicant: **PHOENIX CONTACT GmbH & Co. KG**
Flachsmarktstraße 8
D-32825 Blomberg
Germany

Ex Component: **Terminal Blocks UKH 150 and UKH 240**

This component is NOT intended to be used alone and requires additional consideration when incorporated into other equipment or systems for use in explosive atmospheres (refer to IEC 60079-0).

Type of Protection: **Increased safety**

Marking:

Ex eb IIC Gb

Approved for issue on behalf of the IECEX
Certification Body:

R. Schuller

Position:

Certification Manager

Signature:
(for printed version)

Date:

2018-12-19

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 the [Official IECEX Website](http://www.iecex.com).

Certificate issued by:

DEKRA Certification B.V.
Meander 1051
6825 MJ Arnhem
The Netherlands





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Manufacturer: **PHOENIX CONTACT GmbH & Co. KG**
Flachsmarktstraße 8
D-32825 Blomberg
Germany

Additional Manufacturing location(s):

PHOENIX CONTACT India Pvt. Ltd.
Prithla-Datir Road, Dudhola, Dist.Palwal, Haryana
India

Nanjing PHOENIX CONTACT Ltd. and PHOENIX CONTACT Asia-Pacific (Nanjing) Co. Ltd.
36 Phoenix Road, Jiangning Development Zone
Nanjing, 211100, Jiangsu Province
China

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 Component 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 Ex Component 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 60079-7 : 2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5,1

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

TEST & ASSESSMENT REPORTS:

A sample(s) of the Ex Component listed has successfully met the examination and test requirements as recorded in

Test Report:

[NL/KEM/ExTR06.0029/02](#)

Quality Assessment Report:

[NL/DEK/QAR11.0009/06](#)

[NL/DEK/QAR11.0010/03](#)

[NL/DEK/QAR11.0011/03](#)



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Schedule

Ex Component(s) covered by this certificate is described below:

Terminal Blocks (all colours) UKH 150 and UKH 240 and accessories are intended for the connection of copper conductors in enclosures fulfilling the degree of protection which is required by the applied type of protection for the end-application. The Terminal Blocks are intended for installation on mounting rails type NS 32 according to EN 60715-G 32 or type NS 35 according to EN 60715 TH 35.

Operating temperature range -60 °C to +110 °C.

See Annex 1 for electrical data and nomenclature.

SCHEDULE OF LIMITATIONS:

The Terminal Blocks shall be mounted in a certified enclosure that meets the requirements of an approved type of protection as specified in IEC 60079-0 clause 1, with a degree of protection at least as required for Ex e.

When assembling with other certified series and sizes and using the associated accessories, the required creepage distances and clearances have to be observed.

The installation instruction of the manufacturer shall be followed e.g. for the use of cover, jumpers, end brackets. The data regarding current and associated temperature rise shall be used as guideline for the given conductor cross sections. The cross section has influence on the temperature rise which shall be assessed in the end application.

If the Terminal Blocks are used in electrical apparatus of temperature classes T1 up to T5, the highest temperature of the insulating material shall not exceed the maximum value of the operating temperature range.

If the Protective Conductor Terminal Blocks are used in electrical apparatus of temperature classes T6 the permissible ambient temperature range is -60 °C < Tamb < +40 °C.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

- Assessment to recent editions of the standards.
- Small mechanical changes.
- PHOENIX CONTACT Ind. Com. Ltd deleted as manufacturing location.



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Additional information:

Annex:

[219710400_Annex1.pdf](#)

Annex 1 to Test Report IECEx NL/KEM/ExTR06.0029/02
Annex 1 to Certificate of Conformity IECEx KEM 06.0030U
Annex 1 to EU-Type Examination KEMA 99ATEX8332 U, issue no. 4

Electrical data

Note 1: in this document [,] is used as decimal separator.

All values are values of terminal blocks without bridges, unless indicated otherwise.

Type	UKH 150	UKH 240
Rated insulation voltage [V]	1000	1000
Rated voltage [V]	1100	1100
- with bridge EB [V]	880	690
Rated current [A]	256	350
- rated cross-section with bridge EB [A]	195,5	270
Maximum load current [A]	256	350
Temperature rise [K]	40 (281,5 A; 150 mm ²)	40 (389 A; 240 mm ²)
Contact resistance [mΩ]	0,06	0,03
Rated cross-section [mm ²] (AWG / kcmil)	150 (300)	240 (500)
Connectable conductor cross-section		
- rigid [mm ²] (AWG / kcmil)	35 - 150 (2-300)	70 - 240 (2/0-500)
- flexible [mm ²] (AWG / kcmil)	50 - 150 (1/0-300)	70 - 240 (2/0-500)
Multi-conductor connection (2 conductors with the same cross-section)		
- rigid [mm ²] (AWG)	25 - 50 (4-1/0)	35 - 95 (2-3/0)
- flexible [mm ²] (AWG)	35 - 50 (2-1/0)	50 - 95 (1/0-3/0)

Nomenclature

UKH 150
I II

Designation	Explanation	Value	Explanation
I	Type indicator	UKH	High current terminal block with screw connection
II	Rated cross section	150	150 mm ² , 300 AWG
		240	240 mm ² , 500 AWG