



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

Ex COMPONENT CERTIFICATE

Certificate No.: **IECEx SEV 12.0008U**

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Certificate history:

Status: **Current**

Issue No: 4

[Issue 3 \(2021-06-30\)](#)

[Issue 2 \(2015-07-13\)](#)

[Issue 1 \(2013-03-05\)](#)

[Issue 0 \(2013-01-24\)](#)

Date of Issue: 2024-04-04

Applicant: **PHOENIX CONTACT GmbH & Co. KG**
Flachsmarktstrasse 8
32825 Blomberg
Germany

Ex Component: Terminal blocks Type: UKH 70, UKH 70-F, UHSK/S 2000 and UKH 70-PE/S

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: **e**

Marking: Ex eb IIC Gb

Approved for issue on behalf of the IECEx
Certification Body:

Thomas Köhntopp

Position:

Manager Product Certification

Signature:
(for printed version)

Date:
(for printed version)

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2. This certificate is not transferable and remains the property of the issuing body.
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Certificate issued by:

Eurofins Electric & Electronic Product Testing AG
Luppenstrasse 3
8320 FEHRALTORF .
Switzerland



E&E



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Manufacturer: **PHOENIX CONTACT GmbH & Co. KG**
Flachsmarktstrasse 8
32825 Blomberg
Germany

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 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 safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

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

Test Report:

[CH/SEV/ExTR12.0008/04](#)

Quality Assessment Report:

[NL/DEK/QAR11.0009/09](#)



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

Terminal blocks

UKH 70, UKH 70-F, UHSK/S 2000 and UKH 70-PE/S

The **UKH 70...** feed-through terminal block is a series high-current terminal block with screw clamping points, to be used in terminal compartments of the Ex "e" type of protection (in gas atmospheres) or Ex "t" type of protection (in dust atmospheres).

When needed, two or three blocks can be connected together with sturdy jumper bridges to build groups of terminals at the same potential.

The **UKH 70-PE/S** feed-through terminal block is a protective conductor terminal block (earth wire terminal block) with screw clamping points, to be used in terminal compartments of the Ex "e" type of protection (in gas atmospheres) or Ex "t" type of protection (in dust atmospheres).

The **UHSK/S 2000** feed-through series terminal block has screw clamping points, to be used in terminal compartments of the Ex "e" type of protection (in gas atmospheres) or Ex "t" type of protection (in dust atmospheres).

When needed, two blocks can be connected together with sturdy jumper bridges to build groups of terminals at the same potential.

These terminal blocks can be mounted on two possible EN 60715 standard support rails: NS 32 (EN 60715-G 32) and NS 35 (EN 60715-TH 35).

Classification of installation and use: fixed

Ingress protection: N/A

Rated ambient temperature range (°C): N/A

Rated service temperature range (°C)

for Ex Components:

UKH 70... terminal: -60 °C ... +110 °C

UHSK/S 2000 terminal: -60 °C ... +110 °C

UKH 70-PE/S: -60 °C ... +110 °C

SCHEDULE OF LIMITATIONS:

- The UKH 70..., UHSK/S 2000 and UKH 70-PE/S terminals are to be installed in enclosures that meet the requirements of the standards IEC 60079-0 and IEC 60079-7 (for gas atmospheres) and IEC 60079-31 (for dust atmospheres).
- The maximum surface temperature must be determined in accordance with IEC 60079-0 after installation in a housing.
- When installing the terminals, clearance and creepage distances of the standard IEC 60079-7 must be observed, as well as reduced current ratings when multiple terminals are installed, according to the rating of the enclosure explained in sub-clauses 5.8, 6.7 and Annex E.
- The terminal blocks may be used, based on the self-heating when used at the nominal current and at ambient temperatures of -60 °C to +40 °C at the mounting position in electrical apparatus, e.g. junction and connection boxes, for temperature class T6.
When the Terminal Blocks are used in electrical equipment of temperature classes T1 up to T5, make sure that the highest temperature on the insulation points does not exceed the maximum value specified under "service temperature range" (see technical data).



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
terminal type UKH 70-F is added to UKH 70 Series.

Annex:

[IECEx SEV 12.0008U app 4_1.pdf](#)

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Applicant Name: Phoenix Contact GmbH & Co. KG

Electrical Apparatus: Terminal blocks

Ratings technical data

Type:	Terminal block UKH 70, UKH 70-F	Terminal block UHSK/S 2000	Terminal block UKH 70-PE/S
Rated voltage [V]	880 at NS35 690 at NS32 (depends on mounting rail)	1100	---
Rated current [A]	180	41	---
Max. load current [A]	180	57	---
Temperature rise [K]	38	37	38.5
Contact resistance [mΩ]	---	---	---
Rated cross-section [mm ²] (AWG)	70 (AWG 2/0)	6 (AWG 10)	70 (AWG 2/0)
Connectable conductor cross-section			
- rigid [mm ²] (AWG)	16 ... 95 (AWG 4 -3/0)	0.5 ... 10	16 ... 95 (AWG 4 -3/0)
- flexible [mm ²] (AWG)	25... 70 (AWG 3 – 2/0)	0.5 ... 10	25... 70 (AWG 3 – 2/0)
Assembly as stated	NS 35 or N32 acc. to EN 60715-TH 35	NS 35 or N32 acc. to EN 60715-TH 35	NS 35 acc. to EN 60715-TH 35
Stripping length [mm]	24	15	24
Service temperature [°C]	-60 °C ... +110 °C	-60 °C ... +110 °C	-60 °C ... +110 °C

Eurofins Electric & Electronic Product Testing AG
Swiss Certification Body

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Part number code:

Type code UKH 70...-series

a)	b)	c)	d)	e)	f)	g)	h)
U	K	H	70	-F	*		
						-3...	
							-PE/S

- | | | |
|----|-------|---|
| a) | U | Universal |
| b) | K | Clamp |
| c) | H | High current |
| d) | 70 | Rated cross-section |
| e) | -F | Flange |
| f) | * | all colors e.g. BK, RD, GN, BU etc. Standard color is grey GY |
| g) | -3... | Blocked variant consisting of individual components |
| h) | PE/S | Suffix for protective conductor terminal |