

CERTIFICATE

(1) EU-Type Examination

(2) **Component intended for use on/in equipment or protective systems intended for use in potentially explosive atmospheres - Directive 2014/34/EU**

(3) EU-Type Examination Certificate Number: **KEMA 99ATEX8332U** Issue Number: **6**

(4) Product: **Terminal Blocks UKH 150, UKH 150-F, UKH 240 and UKH 240-F**

(5) Manufacturer: **Phoenix Contact GmbH & Co. KG**

(6) Address: **Flachmarktstraße 8, 32825 Blomberg, Germany**

(7) This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) DEKRA Certification B.V., Notified Body number 0344 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the 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 test report number NL/KEM/ExTR06.0029/04.

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

EN IEC 60079-0 : 2018

EN 60079-7 : 2015 + A1 : 2018

except in respect of those requirements listed at item 18 of the Schedule.

(10) 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.

(11) 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 this certificate.

(12) The marking of the product shall include the following:



II 2 GD Ex eb IIC Gb

Date of certification: 4 March 2024

DEKRA Certification B.V.

L.G. van Schie
Certification Manager

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(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate KEMA 99ATEX8332U**

Issue No. 6

(15) **Description**

Terminal Blocks (all colours) UKH 150, UKH 150-F, UKH 240, UKH 240-F 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.

Types UKH 150 and UKH 240 are intended for installation on mounting rails type NS 32 or type NS 35 according to IEC 60715 respectively Section G 32 and Section TH 35.

Types UKH 150-F and UKH 240-F are suitable for mounting on a mounting plate.

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

Electrical data

For electrical data and nomenclature see Annex 1 to NL/KEM/ExTR06.0029/04.

Installation instructions

The instructions provided with the product shall be followed in detail to assure safe operation.

(16) **Report Number**

No. NL/KEM/ExTR06.0029/04.

(17) **Schedule of Limitations**

1. 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.
2. When assembling with other certified series and sizes and using the associated accessories, the required creepage distances and clearances have to be observed.
3. 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.
4. 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.
5. If the Terminal Blocks are used in electrical apparatus of temperature class T6 the permissible ambient temperature range is $-60\text{ °C} \leq T_{amb} \leq +40\text{ °C}$.
6. The electrical data per Annex 1 applies.

(18) **Essential Health and Safety Requirements**

Covered by the standards listed at item (9).

(19) **Test documentation**

As listed in Report No. NL/KEM/ExTR06.0029/04.

Electrical data

Note 1: in this document a comma “,” is used as decimal separator.

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

Type	UKH 150 UKH 150-F	UKH 240 UKH 240-F
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	F
I	II	III

Designation	Explanation	Value	Explanation
I	Type indicator	UKH	High current terminal block with screw connection
II	Rated cross section	150 240	150 mm ² , 300 AWG 240 mm ² , 500 AWG
III	Option	-F	For mounting on a mounting rail For mounting on a mounting plate