

CERTIFICATE

(1) UK Type Examination

- (2) **Component intended for use on/in an Product or protective system intended for use in potentially explosive atmospheres - UKSI 2016:1107 (as amended) – Schedule 3A, Part 1**

(3) UK Type Examination Certificate Number: **DEKRA 21UKEX0309U** Issue Number: **1**

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

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

(6) Address: **Flachsmarktstraße 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 UK Ltd., Approved Body number 8505 in accordance with Regulation 42 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended), 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 Schedule 1 of the Regulations.

The examination and test results are recorded in confidential test report number EX22090002-015 Issue 1.

(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 to this certificate.

(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 UK Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Regulations 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: 30 January 2025



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DEKRA Certification UK Ltd.

Leela Deane
Certification Manager

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(13) **SCHEDULE**

(14) **to UK Type Examination Certificate DEKRA 21UKEX0309U**

Issue No. 1

(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/DEK/ExTR06.0029/04.

Installation instructions

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

(16) **Report Number**

EX22090002-015 Issue 1.

(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 EN IEC 60079-0 clause 1, with a degree of protection at least as required for Ex e. For combustible dust these enclosures must satisfy the requirements according to EN IEC 60079-0 and EN 60079-31.
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 classes T6 the permissible ambient temperature range is $-60\text{ °C} \leq T_{amb} \leq +40\text{ °C}$.
6. The electrical data per Annex 1 to NL/DEK/ExTR06.0029/04 applies.

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

In addition to the Essential Health and Safety Requirements covered by the standards listed at item 9, all other requirements are demonstrated in the report.

(19) **Test documentation**

As listed in Report number EX22090002-015 Issue 1.

(13) **SCHEDULE**

(14) **to UK Type Examination Certificate DEKRA 21UKEX0309U**

Issue No. **1**

(20) **Certificate History**

Revision	Date of Certificate Issuance	Report No.	Action <first issue / revised / reissued>
0	15 November 2022	EX22090002-15-00	First issue
1	30 January 2025	EX22090002-15-01	Revised

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