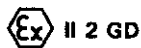




(1) **EC-TYPE EXAMINATION CERTIFICATE**

- (2) Components intended for use in potentially explosive atmospheres - Directive 94/9/EC
- (3) EC-Type Examination Certificate number: **KEMA 99ATEX8332 U**
- (4) Components: **Feed Through Terminal Blocks Type UKH 150 and UKH 240Protective**
- (5) Manufacturer: **Phoenix Contact GmbH & Co.**
- (6) Address: **Flachmarktstraße 8 - 28, 32825 Blomberg, Germany**
- (7) These components and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
- (8) KEMA, notified body number 0344 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that these components have been found to comply with the Essential Health and Safety Requirements relating to the 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. 98332.
- (9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
- EN 50014 : 1992 + prA1 EN 50019 : 1994 + prA1 EN 50281-1-1 : 1998**
- (10) The sign "U" placed after the certificate number indicates that this certificate describes components and must not be mistaken for a certificate intended for an equipment or protective system. This EC-Type Examination Certificate may be used as a basis for certification of an equipment or protective system.
- (11) This EC-Type Examination Certificate relates only to the design and construction of the specified components. If applicable, further requirements of this Directive apply to the manufacture and supply of these components.
- (12) The marking of the components shall include the following:



EEx e II

Arnhem, 17 February 2000
by order of the Board of Directors of N.V. KEMA

L.M.J. Vries
Certification Manager

° This Certificate may only be reproduced in its entirety and without any change



SCHEDULE

(13)

(14)

to EC-Type Examination Certificate KEMA 99ATEX8332 U

(15) **Description**

Feed Through Terminal Blocks Type UKH 150 and UKH 240, for the connection of copper conductors in enclosures in type of protection increased safety "e", insulating parts made of PA 6.6, with accessories (end plates, partitions, cross-connectors, end brackets and identification material) for fixing on mounting rail Type NS 32 according to EN 50035 or Type NS 35, according to EN 50022.

Operating temperature range -40 °C ... +100 °C.

Electrical data

Feed Through Terminal Blocks

Type	<u>UKH 150</u>	<u>UKH 240</u>
Max. rated voltage	750 V	750 V
Rated current (at rated conductor cross section)	250 A	300 A
Max. rated current	250 A	350 A
Max. current (at cross-connectors)	180 A	265 A
Max. current (when using two conductors of same size and type)	220 A	350 A
Rated conductor cross section	150 mm ²	185 mm ²
Max. conductor cross section	150 mm ²	240 mm ²
Rated conductor cross section (when using two conductors of same size and type) ..	25 - 50 mm ² (rigid) 35 - 50 mm ² (flex.)	35 - 95 mm ² (rigid) 50 - 95 mm ² (flex.)

Mounting instructions

The Terminal Blocks are suitable for application in enclosures in atmospheres with combustible gases and combustible dust. For combustible gases these enclosures must satisfy the requirements according to EN 50014 and EN 50019. For combustible dust these enclosures must satisfy the requirements according to EN 50281-1-1.

In combination with other terminal block series and sizes and if other accessories are used the applicable creepage distances and clearances shall be met.

Regarding the use of end plates, partitions, cross-connectors and end brackets the instructions of the manufacturer must be followed.

If smaller cross sections than the rated cross section are used, the belonging lower current has to be laid down in the EC-Type Examination Certificate of the complete apparatus.

The Feed Through Terminal Blocks may be used, based on the self-heating when used at the above mentioned rated current and at ambient temperatures of -40 °C to +40 °C at the mounting position in electrical apparatus, e.g. junction and connection boxes, for temperature classes T6 and T5. When the Feed Through Terminal Blocks are used in electrical apparatus of temperature classes T1 up to T4, the highest temperature of the insulating material shall not exceed the maximum value of the operating temperature range.

SCHEDULE

(13)

(14)

to EC-Type Examination Certificate KEMA 99TEX8332 U

Routine test

According to EN 50019, Clause 7.1.b in combination with Clause 6.1, a dielectric strength test has to be carried out.

(16) **Report**

No. 98332

(15) **Special conditions for safe use**

None

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

Essential health and safety requirements not covered by standards listed at (9)	
Clause	Subject
1.0.6.b	Instructions for use

These essential health and safety requirements are examined and positively judged. The results are laid down in the report listed at (16).

(19) **Test documentation**

1. Component Certificate KEMA No. Ex-95.D.4411 U

signed

2. Description (8 pages)

13.12.1999 / 27.01.2000

3. Drawing No. 00260137 rev. 01)
 00260138 rev. 01)
 00260139 rev. 01)
 00260140 rev. 01)

17.12.1999

 00208352 rev. 04

16.09.1999

4. Samples