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

Certificate No.:	IECEx KEM 06.0035U issue No.:4	Certificate history: Issue No. 4 (2013-2-15) Issue No. 3 (2012-7-23) Issue No. 2 (2009-7-27) Issue No. 1 (2007-6-1) Issue No. 0 (2006-8-22)
Status:	**Current**	
Date of Issue:	**2013-02-15** Page 1 of 6	

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

Electrical Apparatus: **Protective Conductor Terminal Blocks series USLKG 1,5 N / 2,5 N (-1) / 3 (-1) / 5 (-1) / 6 N (-1) / 10 N (-1) / 16 N (-1) / 35 (-1) / 50 (-IB) / 95**

Optional accessory:

Type of Protection: **Increased safety**

Marking: Ex eb IIC

Approved for issue on behalf of the IECEx Certification Body: R.H.D. Pommé

Position: Certification Manager

Signature:
(for printed version)

Date: 2013-02-15

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.

Certificate issued by:

DEKRA Certification B.V.
Utrechtseweg 310
6812 AR Arnhem
The Netherlands

DEKRA

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Manufacturer:

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

Additional Manufacturing location (s):

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

PHOENIX CONTACT India Pvt. Ltd.
Unit I : A-58/2, Okhla Industrial Area, Phase – II
New Delhi – 110020
Unit III : Prithla-Dhatir Road
Village Dudhola
Palwal – 121102 (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

PHOENIX CONTACT Ind. Com. Ltda.
Rua Gino Cesaro, 169
Água Branca 05038-140
São Paulo/SP
Brazil

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 electrical apparatus 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 : 2011 Edition: 6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-7 : 2006-07 Edition: 4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

*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 equipment listed has successfully met the examination and test requirements as recorded in

Test Report:
NL/KEM/ExTR06.0036/00 NL/KEM/ExTR06.0036/01 NL/KEM/ExTR06.0036/02

Quality Assessment Report:

NL/KEM/QAR06.0005/05 NL/KEM/QAR07.0001/02 NL/KEM/QAR07.0002/02
NL/KEM/QAR08.0013/01

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Schedule

EQUIPMENT:
Equipment and systems covered by this certificate are as follows:

Description

The Protective Conductor Terminal Blocks USLKG 1,5 N; USLKG 2,5 N (-1); USLKG 3 (-1); USLKG 5 (-1); USLKG 6 N (-1); USLKG 10 N (-1); USLKG 16 N (-1); USLKG 35 (-1); USLKG 50 (-IB) and USLKG 95 for the connection of copper conductors in enclosures in type of protection increased safety "e". For combustible dust these enclosures must satisfy the requirements according to IEC 61241 series. Fixing is made on mounting rails type NS 32 acc. to IEC 60715-G 32 or NS 35 acc. to IEC 60715-TH 35.

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

Refer to the ANNEX 1 for the electrical data.

CONDITIONS OF CERTIFICATION: NO

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EQUIPMENT(continued):

Schedule of limitations:
The Protective Conductor Terminal Blocks are suitable for use in enclosures in atmospheres with flammable gases or combustible dust. For flammable gases these enclosures must satisfy the requirements according to IEC 60079-0 and IEC 60079-7. For combustible dust these enclosures must satisfy the requirements according to EN 60079-0 and EN60079-31.

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

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

The Protective Conductor Terminal Blocks may be used 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 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.

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

Details for certifcate issue 4:
- Added connotation (-1) to type USLKG 3, type USLKG 3 -1 was assessed in the evaluation per NL/KEM/ExTR06.0036/01, the (-1) however was not listed on IECEx KEM 06.0035U issue 3.
- National differences for Europa ATEX EN 60079-0 : 2009 and EN 60079-7 : 2007 assessed and added.

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Additional information:

See Annex 1 for electrical data.

Annexe: 215921800 IECEx - Annex to KEM 06.0035U Iss4 CoC.pdf

Annex 1 to IECEx Test Report NL/KEM/ExTR06.0036/02
Annex 1 to Certificate of Conformity IECEx KEM 06.0035U, issue 4

Electrical data

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

Protective Conductor Terminal Blocks

Type:	**USLKG 1,5 N**	**USLKG 2,5 N (-1)**
Rated cross-section [mm²] (AWG)	1,5 (16)	2,5 (14)
Connectable conductor cross-section		
- rigid [mm²] (AWG)	0,14 - 1,5 (26 - 16)	0,2 - 4 (24 - 12)
- flexible [mm²] (AWG)	0,14 - 1,5 (26 - 16)	0,2 - 2,5 (24 - 14)

Type:	**USLKG 3 (-1)**	**USLKG 5 (-1)**
Rated cross-section [mm²] (AWG)	2,5 (14)	4 (12)
Connectable conductor cross-section		
- rigid [mm²] (AWG)	0,2 - 4 (24 - 12)	0,2 - 4 (24 - 12)
- flexible [mm²] (AWG)	0,2 - 2,5 (24 - 14)	0,2 - 4 (24 - 12)

Type:	**USLKG 6 N (-1)**	**USLKG 10 N (-1)**
Rated cross-section [mm²] (AWG)	6 (10)	10 (8)
Connectable conductor cross-section		
- rigid [mm²] (AWG)	0,2 - 10 (24 - 8)	0,5 - 16 (20 - 6)
- flexible [mm²] (AWG)	0,2 - 6 (24 - 10)	0,5 - 10 (20 - 8)

Type:	**USLKG 16 N (-1)**	**USLKG 35 (-1)**
Rated cross-section [mm²] (AWG)	16 (6)	35 (2)
Connectable conductor cross-section		
- rigid [mm²] (AWG)	2,5 - 25 (14 - 4)	0,75 - 50 (18 - 1/0)
- flexible [mm²] (AWG)	4 - 16 (12 - 6)	0,75 - 35 (18 - 2)

Type:	**USLKG 50 (-IB)**	**USLKG 95**
Rated cross-section [mm²] (AWG)	50 (1/0)	95 (3/0)
Connectable conductor cross-section		
- rigid [mm²] (AWG)	16 - 50 (6 - 1/0)	25 - 95 (4 - 3/0)
- flexible [mm²] (AWG)	25 - 50 (4 - 1/0)	35 - 95 (2 - 3/0)