1 **EU-TYPE EXAMINATION CERTIFICATE**

2 Component intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Certificate Number: **KIWA 17ATEX0022U** **Issue 3**

4 Component: **Terminal blocks Types SSK 0525, SSK 110, SSK 116 and SSK 135**

5 Applicant: **PHOENIX CONTACT GmbH & Co. KG**

6 Address: Flachsmarktstraße 832825
Blomberg
Germany

7 This component and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

8 CSA Group Netherlands B.V. notified body number 2813 in accordance with Articles 17 and 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this component has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of a component intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 14.2.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

EN IEC 60079-0:2018 EN IEC 60079-7:2015/A1:2018

10 The sign 'U' is placed after the certificate number to indicate that the product assessed is a component and may be subject to further assessment when incorporated into equipment. Any limitations of use are listed in the schedule to this certificate.

11 This EU-Type Examination Certificate relates only to the design and construction of the specified component. If applicable, further requirements of this Directive apply to the manufacture and supply of this component.

12 The marking of the component shall include the following:

II 2GD
Ex eb IIC Gb

Signed: J A May

Title: Director of Operations

PRODUCTS
RvA C 652

SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE

KIWA 17ATEX0022U
Issue 3

13 **DESCRIPTION OF COMPONENT**

Terminal blocks Types SSK 0525, SSK 110, SSK 116 and SSK 135 with accessories (end cover type D-SSK * KER and chain bridge type KBI-*), used for the connection of copper conductors in equipment in type of protection increased safety “e”. Insulating materials are made of ceramics.

The terminal blocks are snapped onto mounting rail type NS 32 to EN 60715-G 32.

Operating temperature range -60°C to +180°C.

Technical Data:

	Type SSK 0525	Type SSK 110
Rated insulation voltage	400 V	400 V
Rated voltage	440 V	440 V
Rated current	28 A	36,5 A
Maximum current	28 A	49 A
Maximum current cross-connectors	28 A (4 mm^2)	49 A (10 mm^2)
Rated cross-section	4 mm^2	6 mm^2
Connectable conductor cross-section	0,2 - 4 mm^2 (rigid) 0,25 - 4 mm^2 (flexible)	0,5 - 10 mm^2 (rigid) 0,5 - 6 mm^2 (flexible)
Temperature rise	40 K (31,3 A / 4 mm^2)	40 K (40,3 A / 6 mm^2)
Contact resistance	0,94 mΩ	0,74 mΩ
	Type SSK 116	Type SSK 135
Rated insulation voltage	400 V	500V
Rated voltage	440 V	550V
Rated current	55 A	101 A
Maximum current	64,5 A	113 A
Maximum current cross-connectors	55 A (10 mm^2)	100 A (35 mm^2)
Rated cross-section	10 mm^2	25 mm^2
Connectable conductor cross-section	0,5 - 16 mm^2 (rigid) 0,5 - 10 mm^2 (flexible)	1 - 35 mm^2 (rigid) 1 - 25 mm^2 (flexible)
Temperature rise	40 K (60,9 A / 10 mm^2)	40 K (116,5 A / 25 mm^2)
Contact resistance	0,23 mΩ	0,2 mΩ

Instructions:

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

Variation 1 - This variation introduced the following changes:

i. due to modification of end plate type D-SSK 135-KER, the rated insulation voltage of terminal type SSK 135 is reduced to 500 V.

Variation 2 - This variation introduced the following changes:

i. To permit the removal of Protective conductor terminal blocks Types SLK 4-EX, SLK 10-EX, SLK 16-EX and SLK 35-EX from the scope of the certificate. As a result, the Equipment title & Certificate Schedule were revised to remove reference to these components and the associated certification documents listed in NL/KIWA/ExTR17.0015/01 were made obsolete.
ii. Permit a minor change to the maximum current cross-connectors specified for Type SSK 116 terminal.
iii. Following appropriate assessment to demonstrate compliance with the latest technical knowledge, EN 60079-0:2012/A11:2013 & EN 60079-7:2015 were replaced by EN IEC 60079-0:2018 & EN IEC 60079-7:2015/A1:2018. In accordance with the requirements of EN IEC 60079-0:2018, the Schedule of Limitations was revised to include confirmation of the service temperature range of the terminals.
iv. Permit the addition of alternative manufacturing locations for the components.
v. Minor drawing changes not affecting the original assessment.
vi. The report is also to facilitate the transfer of certificate KIWA 17ATEX0022U from Kiwa Nederland B.V., Unit Kiwa ExVision, Wilmersdorf 50, 7327 AC Apeldoorn, The Netherlands to CSA Group.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated CSA Reports and Certificate History

Issue	Date	Report number	Comment
1	10 October 2017	170301806	The release of the prime certificate.
2	07 March 2018	180201310	The introduction of Variation 1.
3	24 February 2022	R80102906A	The introduction of Variation 2.

15 SCHEDULE OF LIMITATIONS

15.1 The terminals have a service temperature range of -60°C to +180°C.

15.2 The terminals shall be mounted in an enclosure having one of the specific types of protection mentioned in EN IEC 60079-0, section 1

15.3 When mounted in an enclosure with type of protection Increased Safety “e”, the clearances and creepage distances to other live parts shall fulfil the requirements of EN IEC 60079-7, Table 2.

15.4 When accessories are used, the instructions provided by the manufacturer shall be observed.

16 **ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II** (EHSRs)

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.

17 **CONDITIONS OF MANUFACTURE**

17.1 The use of this certificate is subject to the Regulations Applicable to Holders of CSA Group Netherlands B.V. certificates.

17.2 Holders of EU-Type Examination Certificates are required to comply with the conformity to type requirements defined in Article 13 of Directive 2014/34/EU

Certificate Annexe

Certificate Number: **KIWA 17ATEX0022U**

Component: **Terminal blocks Types SSK 0525, SSK 110, SSK 116 and SSK 135 and Protective conductor terminal blocks Types SLK 4-EX, SLK 10-EX, SLK 16-EX and SLK 35-EX**

Applicant: **PHOENIX CONTACT GmbH & Co. KG**

Issues 1 and 2: Refer to the report stated in section 14.2

Issue 3

Drawing	Sheets	Rev.	Date (Stamp)	Title
00300580	1 of 1	05	21-Jan-22	SSK 0525-KER-Ex
00300581	1 of 1	04	21-Jan-22	SSK 0525 KER-Ex
00300900	1 of 1	02	21-Jan-22	SSK 110 KER-Ex
00300989	1 of 1	02	21-Jan-22	SSK 116 KER-Ex
00305540	1 of 1	05	21-Jan-22	SSK 135 KER-Ex
MNR 01018802 - 01	1 & 2	01	21-Jan-22	Instructions SSK 0525 KER-Ex
MNR 01018803 - 01	1 & 2	01	21-Jan-22	Instructions SSK 110 KER-Ex
MNR 01018805 - 01	1 & 2	01	21-Jan-22	Instructions SSK116 KER-Ex
MNR 01018806 - 01	1 & 2	01	21-Jan-22	Instructions SSK135 KER-Ex