

# 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: **DEKRA 12ATEX0039 U** Issue Number: **2**

(4) Product: **Terminal Blocks**  
**SRK (B)2,5/2A (/Z); SRK (B)4/2A(/Z); SRK (B)6/2A(/Z) and**  
**SRK (B)10/2A(/Z) with optional bridge SQI**

**Protective Conductor Terminal Blocks**  
**SSL 2,5/2A; SSL 4/2A; SSL 6/2A; and SSL 10/2A**

(5) Manufacturer: **CONTA-CLIP Verbindungstechnik GmbH**

(6) Address: **Otto-Hahn-Strasse 7, 33161 Hövelhof, 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/DEK/ExTR12.0008/01.

(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**

(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: 7 February 2020

DEKRA Certification B.V.

L.G. van Schie  
Certification Manager

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(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate DEKRA 12ATEX0039 U**

Issue No. 2

(15) **Description**

The Terminal Blocks (all colors) SRK (B)2,5/2A(/Z); SRK (B)4/2A(/Z); SRK (B)6/2A(/Z) and SRK (B)10/2A(/Z) with optional bridge SQI and Protective Conductor Terminal Blocks SSL 2,5/2A; SSL 4/2A; SSL 6/2A; and SSL 10/2A 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.

The Terminal Blocks and Protective Conductor Terminal Blocks are intended for installation on mounting rails type TH 35 according to EN 60715.

Operating temperature range -40 °C to +85 °C.

**Electrical data**

For electrical data and nomenclature see Annex 1 to report No. NL/DEK/ExTR12.0008/01.

**Installation instructions**

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

(16) **Report Number**

No. NL/DEK/ExTR12.0008/01.

(17) **Schedule of Limitations**

1. The Terminal Blocks and the Protective Conductor Terminal Blocks shall be mounted in a certified enclosure that meets the requirements of a type of protection as specified in EN 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 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 equipment 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 equipment of temperature classes T6 the permissible ambient temperature range is  $-40\text{ °C} < T_{amb} < +40\text{ °C}$ .

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

Covered by the standards listed at item (9).

(19) **Test documentation**

As listed in Report No. NL/DEK/ExTR12.0008/01.

(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate DEKRA 12ATEX0039 U**

Issue No. **2**

(20) **Certificate history**

Issue 1 - 217369600	Initial certificate.
Issue 2 - 223912100	Assessment to recent edition of standards.

## Annex 1 to Report No. NL/DEK/ExTR12.0008/01

### Electrical data

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

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

#### Terminal blocks

Type	SRK (B)2,5/2A(/Z)	SRK (B)4/2A(/Z)
Rated insulation voltage [V]	630	630
Rated voltage [V]	690	690
- with SQI intermediate bridging [V]	400	320
- with SQI adjacent bridging [V]	500	500
- with SQI double bridging [V]	125	125
Rated current [A]	30	41
- rated cross-section with SQI [A]	24	32
Temperature rise, maximum [K]	40 (33,6 A; 4 mm <sup>2</sup> )	40 (45,3 A; 6 mm <sup>2</sup> )
Contact resistance [mΩ]	2,63	1,44
Rated cross-section [mm <sup>2</sup> ] (AWG)	4 (12)	6 (10)
Connectable conductor cross-section		
- rigid [mm <sup>2</sup> ] (AWG)	0,5 - 4 (20-12)	0,5 - 6 (20-10)
- flexible [mm <sup>2</sup> ] (AWG)	0,5 - 4 (20-12)	0,5 - 6 (20-10)

Type	SRK (B)6/2A(/Z)	SRK (B)10/2A(/Z)
Rated insulation voltage [V]	500	500
Rated voltage [V]	550	550
- with SQI intermediate bridging [V]	320	320
- with SQI adjacent bridging [V]	500	500
- with SQI double bridging [V]	100	100
Rated current [A]	57	76
- rated cross-section with SQI [A]	41	57
Temperature rise, maximum [K]	40 (64,4 A; 10 mm <sup>2</sup> )	40 (83,7 A; 16 mm <sup>2</sup> )
Contact resistance [mΩ]	3,34	1,68
Rated cross-section [mm <sup>2</sup> ] (AWG)	10 (8)	16 (6)
Connectable conductor cross-section		
- rigid [mm <sup>2</sup> ] (AWG)	0,5 - 10 (20-8)	1,5 - 16 (16-6)
- flexible [mm <sup>2</sup> ] (AWG)	0,5 - 10 (20-8)	1,5 - 16 (16-6)

#### Protective conductor terminal blocks

Type	SSL 2,5/2A	SSL 4/2A
Rated cross-section [mm <sup>2</sup> ] (AWG)	4 (12)	6 (10)
Connectable conductor cross-section		
- rigid [mm <sup>2</sup> ] (AWG)	0,5 - 4 (20-12)	0,5 - 6 (20-10)
- flexible [mm <sup>2</sup> ] (AWG)	0,5 - 4 (20-12)	0,5 - 6 (20-10)
Type	SSL 6/2A	SSL 10/2A
Rated cross-section [mm <sup>2</sup> ] (AWG)	10 (8)	16 (6)
Connectable conductor cross-section		
- rigid [mm <sup>2</sup> ] (AWG)	0,5 - 10 (20-8)	1,5 - 16 (16-6)
- flexible [mm <sup>2</sup> ] (AWG)	0,5 - 10 (20-8)	1,5 - 16 (16-6)

## Annex 1 to Report No. NL/DEK/ExTR12.0008/01

### Nomenclature

#### Terminal Blocks

SRK    (B)    2,5    /    2A    (/Z)  
 I        II        III        IV        V

Designation	Explanation	Value	Explanation
I	Type indicator	SRK	Feed through terminal
II	Block formation	- B	Block formation with snap foot Block formation without snap foot
III	Rated cross section	2,5 4 6 10	4 mm², 12 AWG 6 mm², 10 AWG 10 mm², 8 AWG 16 mm², 6 AWG
IV	Amount of connections	2A	2 connections
V	Connecting pin	- /Z	No connection pin With connecting pin, to connect the housing together (not for 'B')

#### Protective Conductor Terminal Blocks

SSL        2,5        2A  
 I            II            III

Designation	Explanation	Value	Explanation
I	Type indicator	SSL	Protective Conductor Terminal Block
II	Rated cross section	2,5 4 6 10	4 mm², 12 AWG 6 mm², 10 AWG 10 mm², 8 AWG 16 mm², 6 AWG
III	Amount of connections	2A	2 connections