

# 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](http://www.iecex.com)

Certificate No.:	IECEX SEV 13.0003U	Issue No: 3	Certificate history:
Status:	Current	Page 1 of 5	Issue No. 3 (2015-01-21)
Date of Issue:	2015-01-21		Issue No. 2 (2015-01-08)
			Issue No. 1 (2013-12-17)
			Issue No. 0 (2013-05-28)
Applicant:	PHOENIX CONTACT GmbH & Co KG Flachsmarktstrasse 8 32825 Blomberg Germany		
Electrical Apparatus:	Terminal Block		
Optional accessory:			
Type of Protection:	Increased safety "e"		
Marking:	Ex eb IIC		

Approved for issue on behalf of the IECEx  
Certification Body:

Martin Plüss

Position:

Manager Product Certification

Signature:  
(for printed version)

Date:

2015-01-21

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](http://www.iecex.com).

Certificate issued by:

**Electrosuisse div. Testing and Certification**  
Luppenstrasse 1  
CH-8320 FEHRALTORF  
Switzerland





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Manufacturer: PHOENIX CONTACT GmbH & Co KG  
Flachsmarktstrasse 8  
32825 Blomberg  
Germany

Additional Manufacturing  
location(s):

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

*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:

[CH/SEV/ExTR13.0003/01](#) [CH/SEV/ExTR13.0003/02](#) [CH/SEV/ExTR13.0003/03](#)

Quality Assessment Report:

[NL/DEK/QAR11.0009/01](#)



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## Schedule

### EQUIPMENT:

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

#### Ratings:

RBO 8: current: 187 A; cross-section: 70 mm<sup>2</sup>; voltage: 690 V

RBO 10: current: 309 A; cross-section: 150 mm<sup>2</sup>; voltage: 1100 V

RBO 12: current: 415 A; cross-section: 240 mm<sup>2</sup>; voltage: 1100 V

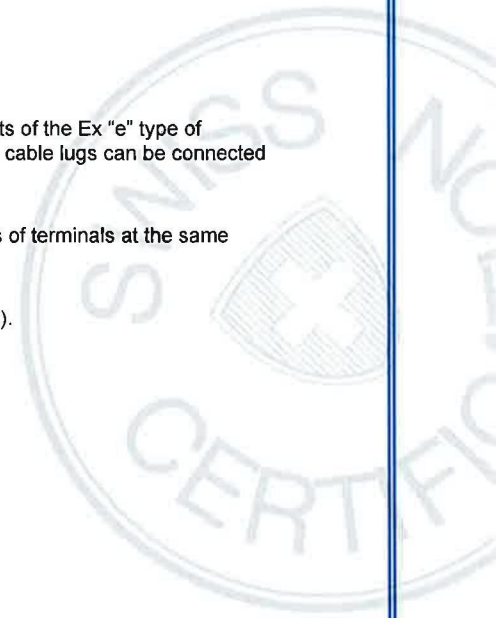
RBO 16: current: 520 A; cross-section: 300 mm<sup>2</sup>; voltage: 1100 V

The RBO feed-through series terminal blocks have bolt connections, to be used in terminal compartments of the Ex "e" type of protection (in gas atmospheres) or Ex "t" type of protection (in dust atmospheres). Cables equipped with cable lugs can be connected to the RBO terminal blocks.

When needed, two or three blocks can be connected together with sturdy jumper bridges to build groups of terminals at the same potential.

These terminal blocks should be mounted on EN 60715 standard support rails: NS 35 (EN 60715-TH 35).

**CONDITIONS OF CERTIFICATION: NO**





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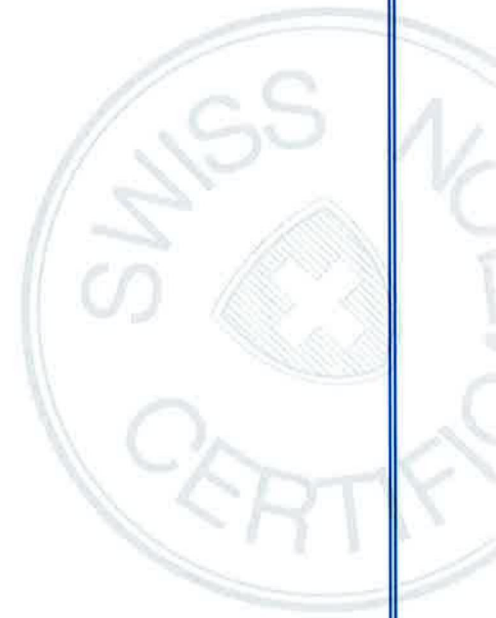
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**DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):**

Correction of ratings

This certificate replaces all former issues of certificate IECEx SEV 13.0003 U.





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## Additional information:

### "Schedule of Limitations" for Ex Components, if any:

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The RBO xx terminals have to be installed in enclosures that meet the requirements of the standards IEC/EN 60079-0 and IEC/EN 60079-7 (for gas atmospheres) and IEC/EN 60079-31 (for dust atmospheres).

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When installing the terminal, clearance and creepage distances of the standard IEC 60079-7 must be observed, as well as reduced current ratings when multiple terminals are installed, according to the rating of the enclosure explained in sub-clauses 5.8, 6.7 and Annex E.

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Service temperature range: from -60°C to +110°C.

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Increased safety of these terminal blocks is only guaranteed when their walls remain intact and undamaged.

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For RBO 8; RBO 10 and RBO 12 only

The tests carried out had the result that a two conductor connection on the RBO xx terminal block is generally possible. For two conductor connections, only cable lugs for compression connections acc. to DIN 46235 shall be used. Two wires of the same size can be connected. Compliance with the air and creepage distances has to be ensured by the user. The maximum load current may not to be exceeded by the total current of all connected conductors.

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For RBO 16 only

The tests carried out had the result that a two conductor connection on the RBO 16 terminal block is generally possible. For two conductor connections, only cable lugs for compression connections acc. to DIN 46235 may be used. After compression with the conductor, the cable lugs have to be insulated with a shrinking sleeve. Compliance with the air and creepage distances has to be ensured by the user.

The maximum load current may not to be exceeded by the total current of all connected conductors.