



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 PTB 06.0086U** issue No.:1

Status: **Current**

Certificate history:
Issue No. 1 (2012-1-27)
Issue No. 0 (2006-9-27)

Date of Issue: **2012-01-27** Page 1 of 4

Applicant: **R. STAHL Schaltgeräte GmbH**
Am Bahnhof 30
74638 Waldenburg
Germany

Electrical Apparatus: **Connection terminal Type 8180/03-...**
Optional accessory:

Type of Protection: **Increased Safety "e"**

Marking: Ex e II resp. Ex e I

*Approved for issue on behalf of the IECEx
Certification Body:*

Dr. Ing. Uwe Klausmeyer

Position:

Head of Section "Flameproof Enclosures"

*Signature:
(for printed version)*

Date:

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:

Physikalisch-Technische Bundesanstalt (PTB)
Bundesallee 100
38116 Braunschweig
Germany





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Manufacturer: **R. STAHL Schaltgeräte GmbH**
Am Bahnhof 30
74638 Waldenburg
Germany

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 : 2004 Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
Edition: 4.0

IEC 60079-7 : 2001 Electrical apparatus for explosive gas atmospheres - Part 7: Increased safety 'e'
Edition: 3

*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:

DE/PTB/ExTR06.0104/00

Quality Assessment Report:

DE/BVS/QAR10.0002/02



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Description of equipment

The connection terminal, type 8180/03-..., consists of the terminal bottom part, the terminal bracket, the terminal piece, as well as hexagon screws with lock washers and hexagon nuts. The connection terminal is used for connecting copper conductors in terminal compartments designed to type of protection Increased Safety "e".

Nomenclature

Connection terminal	Type	8180/03-abc
03	Version, 03 = Large Terminal	
a, b, c	numerals or letters without influence to explosion-protection	

Technical data

Rated voltage	up to	750 V		
Rated current	max.	394 A	500 A	630 A
Rated cross section	max.	240 mm ²	2 x 240 mm ²	2 x 240 mm ²
			11 x (21 x 1) mm ²	11 x (21 x 1) mm ²
			Cu ribbon	Cu ribbon
Suited for temperature class		T6	T6	T5
Operating temperature range:			-50 °C to +100 °C	

Notes for installation and operation

The connection terminal shall be fitted in an enclosure that meets the requirements of an approved type of protection in accordance with IEC 60079-0, section 1.

When installing the connection terminal in an enclosure designed to type of protection Increased Safety "e" as specified in IEC 60079-7, the clearance and creepage distances shown in section 4.4, section 4.5, and table 1 shall be duly considered.

CONDITIONS OF CERTIFICATION: NO



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

New QAR