



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 06.0062U issue No.:3
Status: **Current**
Date of Issue: **2013-10-15** Page 1 of 5

Certificate history:
Issue No. 3 (2013-10-15)
Issue No. 2 (2012-1-26)
Issue No. 1 (2010-11-9)
Issue No. 0 (2006-8-10)

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

Electrical Apparatus: **Circuit breaker type 8562/5-.....-**
Optional accessory:

Type of Protection: **Increased Safety "e", Flameproof Enclosures "d"**

Marking: Ex de IIC resp. Ex de I

Approved for issue on behalf of the IECEx Certification Body: Uwe Voelkel

Position: 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

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 : 2007-10** Explosive atmospheres - Part 0: Equipment - General requirements
Edition: 5
- IEC 60079-1 : 2007-04** Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition: 6
- 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:

DE/PTB/ExTR10.0076/00

Quality Assessment Report:

DE/BVS/QAR10.0002/04



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Description of equipment

The circuit breaker, type 8562/5-..... is an electric equipment of type of protection Flameproof enclosure "d", which is designed to accommodate protective components. The circuit breaker is manufactured in four sizes. Connection is by means of the integrated terminals.

For further information, please refer to the Annex.

CONDITIONS OF CERTIFICATION: NO



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

Administrative corrections of the test report no. and used standards in relation to issue no. 2.



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Additional information:

None

Nomenclature

Circuit breaker	Type	8562/5a-bcde-fgh	
5	Circuit breaker		
a	Enclosure size (width) 1 = 36 mm 2 = 54 mm 3 = 72 mm 4 = 92 mm		
b	Number of Poles 1 = 1-pole 2 = 2-pole 3 = 3-pole 4 = 3-pole + N 5 = 1-pole + N 6 = 4-pole		
c, d	Protective Device		
	01 = MCB	B-Characteristic	6 kA
	02 = MCB	B-Characteristic	10 kA
	03 = MCB	C-Characteristic	6 kA
	04 = MCB	C-Characteristic	10 kA
	05 = MCB/RCD	B-Characteristic	6 kA / 0.03 A
	06 = MCB/RCD	B-Characteristic	6 kA / 0.3 A
	07 = MCB/RCD	C-Characteristic	6 kA / 0.03 A
	08 = MCB/RCD	C-Characteristic	6 kA / 0.3 A
	09 = RCD		0.01 A
	10 = RCD		0.03 A
	11 = RCD		0.3 A
	12 = RCD		0.5 A
	13 = MCB/RCD	B-Characteristic	6 kA / 0.01 A
	14 = MCB/RCD	C-Characteristic	6 kA / 0.01 A
	15 = MCB AC/DC	B-Characteristic	6 kA
	16 = MCB AC/DC	C-Characteristic	6 kA
	17 = RCD		0.1 A
	18 = MCB	B-Characteristic	10 kA, 480 V
	19 = MCB	C-Characteristic	10 kA, 480 V
	21 = MCB	D-Characteristic	6 kA
	22 = MCB	D-Characteristic	10 kA
	23 = MCB	D-Characteristic	10 kA, 480 V
	25 = MCB/RCD	B-Characteristic	10 kA / 0.03 A
	26 = MCB/RCD	B-Characteristic	10 kA / 0.3 A
	27 = MCB/RCD	C-Characteristic	10 kA / 0.03 A
	28 = MCB/RCD	C-Characteristic	10 kA / 0.3 A
	30 = MCB/RCD	C-Characteristic	6 kA / 0.03 A
	33 = MCB/RCD	B-Characteristic	10 kA / 0.01 A
	34 = MCB/RCD	C-Characteristic	10 kA / 0.01 A
e, f, g, h	numerals or letters without influence to explosion-protection		

Technical data

Rated insulation voltage up to 550 V
 Rated operating voltage, main contacts up to 440 V
 Rated operating voltage, auxiliary contacts up to 250 V

Rated current I_e , main contacts	max.	63 A		
Rated current I_e , auxiliary contacts	max.	5 A		
Thermal limit current for temperature class		T6	T5	T4
Fuse with fault current circuit breaker		13 A	40 A	63 A
Circuit breaker		13 A	32 A	40 A
Fault current circuit breaker			40 A	63 A
Rated cross section, main contact	max.	10 mm ²		
Rated cross section, auxiliary contact	max.	1.5 mm ²		

The circuit breaker is designed for 110 °C temperature resistance

Notes for installation and operation

The circuit breaker 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 circuit breaker 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.