



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.:1

Status: **Current**

Certificate history:
Issue No. 1 (2010-11-9)
Issue No. 0 (2006-8-10)

Date of Issue: **2010-11-09** Page 1 of 4

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 d e IIC Gb resp. Ex db eb IIC**
Ex d e I Mb resp. Ex db eb 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](http://www.iecex.com).

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 : 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/QAR10.0002/00](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

See attachment.

CONDITIONS OF CERTIFICATION: NO



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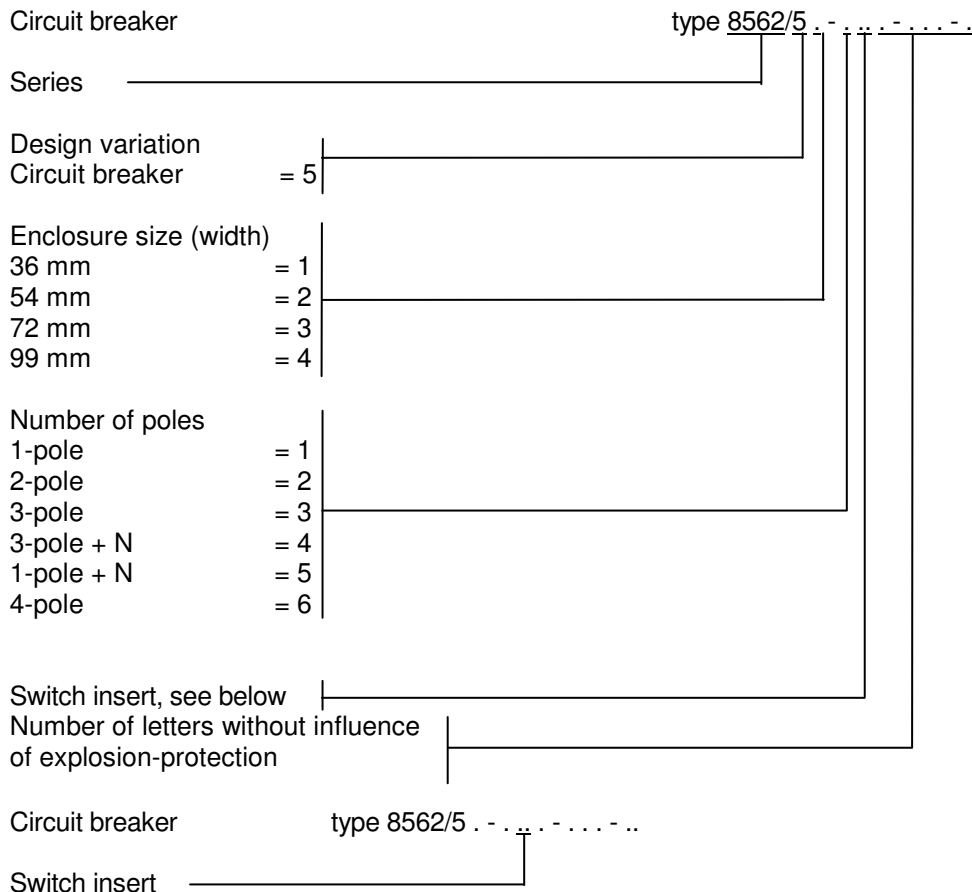
DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

- 1) Additional switch inserts with an increased rated voltage can be used.
- 2) The standards were adapted. This change the marking of the component.
- 3) The ambient temperature is extended.
- 4) An additional auxiliary contact added.

General product information:

The circuit breaker of type 8562/5-....-... is an electric operator of type of protection Flameproof Enclosure, which is designed to accommodate protective components. It comes in four different sizes. Connection is by means of the integrated terminals.

Nomenclature



LS	B-Charakteristic	6 kA	= 01
LS	B-Charakteristic	10 kA	= 02
LS	C-Charakteristic	6 kA	= 03
LS	C-Charakteristic	10 kA	= 04
FI/LS	B-Charakteristic	6 kA / 0,03 A	= 05
FI/LS	B-Charakteristic	6 kA / 0,3 A	= 06
FI/LS	C-Charakteristic	6 kA / 0,03 A	= 07
FI/LS	C-Charakteristic	6 kA / 0,3 A	= 08
FI		0,01 A, 230/400 V	= 09
FI		0,03 A, 230/400 V	= 10
FI		0,3 A, 230/400 V	= 11
FI		0,5 A, 230/400 V	= 12
FI/LS	B-Charakteristic	6 kA / 0,01 A	= 13
LS All-strom	B-Charakteristic	6 kA	= 15
LS All-strom	C-Charakteristic	6 kA	= 16
FI		0,1 A, 230/400 V	= 17

Physikalisch-Technische Bundesanstalt (PTB)

LS	B-Characteristic	10 kA, 480 V	= 18
LS	C-Characteristic	10 kA, 480 V	= 19
LS	D-Characteristic	6 kA	= 21
LS	D-Characteristic	10 kA	= 22
LS	D-Characteristic	10 kA, 480 V	= 23
LS	Z-Characteristic	10 kA	= 24
FI/LS	B-Characteristic	10 kA / 0,03 A	= 25
FI/LS	B-Characteristic	10 kA / 0,3 A	= 26
FI/LS	C-Characteristic	10 kA / 0,03 A	= 27
FI/LS	C-Characteristic	10 kA / 0,3 A	= 28
FI/LS	B-Characteristic	25 kA	= 30
FI/LS	C-Characteristic	25 kA	= 31
FI/LS	B-Characteristic	10 kA / 0,01 A	= 33
FI/LS	C-Characteristic	10 kA / 0,01 A	= 34
FI	Selektiv	0,3 A	= 36
LS	C-Characteristic	10 kA / 480 V	= 39
LS	K-Characteristic	5 kA / 60 V	= 41
LS	K-Characteristic	10 kA / 240 V	= 42
LS	K-Characteristic	10 kA / 480/277V	= 43
FI/LS	B-Characteristic	10 kA / 0,03A	= 46
FI/LS	C-Characteristic	10 kA / 0,03A	= 47
FI/LS	B-Characteristic	25 kA / 0,03A	= 48
FI		0,01 kA / 480Y/277V 230/400 V	= 50
FI		0,03 kA / 480Y/277V 230/400 V	= 51
FI		0,1 kA / 480Y/277V 230/400 V	= 52
FI		0,3 kA / 480Y/277V 230/400 V	= 53
FI		0,5 kA / 480Y/277V 230/400 V	= 54
LS	C-Characteristic	10 kA / 480Y/277V	= 61
LS	D-Characteristic	10 kA / 480Y/277V	= 62

Technical data

Rated isolation voltage	up to	500 V
Rated voltage, main contacts	up to	480 V
Rated voltage, auxiliary contacts	up to	250 V
Rated current, main contacts	max.	63 A
Rated current, auxiliary contacts	max.	5 A
Rated cross-section	max.	10 mm ² (main circuits) max. 1.5 mm ² (auxiliary circuits)
Ambient temperature		-20 °C ... +60 °C

The "d" enclosure of the circuit breaker has a temperature endurance of 110 °C. The max. temperature endurance of the switch-insert may be lower.

It has to ensure that the functionality of the insert switches is secured and the material requirements are met.



Notes of manufacturing and operation

The circuit breaker shall be mounted in an enclosure that meets the requirements of an approved type of protection as specified in EN 60079-0:2009, section 26.4.2.

When mounting the circuit breaker in an enclosure designed to type of protection Increased Safety “e” as specified in EN 60079-7:2007. The clearance and creepage distances specified in section 4.3, section 4.4 and table 1 shall duly be considered.

Since in this case the requirements of the standards are identical, the component may be used in groups I and II.