



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Ex COMPONENT CERTIFICATE

Certificate No.:	IECEx BVS 08.0039U	Page 1 of 5	<u>Certificate history:</u>
Status:	Current	Issue No: 3	Issue 2 (2018-11-28)
Date of Issue:	2023-02-23		Issue 1 (2011-07-08)
Applicant:	R. STAHL Schaltgeräte GmbH Am Bahnhof 30 74638 Waldenburg Germany		Issue 0 (2008-08-13)
Ex Component:	Motor protection circuit-breaker type 8523/8*-(*)		
<i>This component is NOT intended to be used alone and requires additional consideration when incorporated into other equipment or systems for use in explosive atmospheres (refer to IEC 60079-0).</i>			
Type of Protection:	Flameproof Enclosures "d", Increased Safety "e"		
Marking:	Ex db eb IIC Gb Ex db eb I Mb		

Approved for issue on behalf of the IECEx
Certification Body:

Deniz Pezzutto

Position:

Certification Manager

Signature:
(for printed version)

Date:
(for printed version)

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 www.iecex.com or use of this QR Code.



Certificate issued by:

DEKRA Testing and Certification GmbH
Certification Body
Dinnendahlstrasse 9
44809 Bochum
Germany

 **DEKRA**
On the safe side.



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

Manufacturing
locations:

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 component 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 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-1:2014-06](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

[IEC 60079-7:2017](#) Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the component listed has successfully met the examination and test requirements as recorded in:

Test Report:

[DE/BVS/ExTR08.0044/02](#)

Quality Assessment Report:

[DE/BVS/QAR10.0002/17](#)



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Ex Component(s) covered by this certificate is described below:

Subject and type

Type code

8523	/	8	*	-	(*)
a		b	c		d

a Type series

b Design

c Enclosure size [mm]

1 – 130 x 80 x 110.5
2 – 130 x 115 x 110.5

d Additional parameters that do not affect the explosion protection of the equipment.
May contain additional digits or characters, including “-“, “/” or “.”

Description

The motor protection circuit breaker is an enclosure that meets the requirements of the type of protection Flameproof Enclosure. It is equipped with thermal and electromagnetic overcurrent release as well as short-circuit trip. After the components are mounted, the enclosure is closed by a cover which is cemented to the enclosure.

The cover of the enclosure is equipped with several connections facilities. There are two sizes of connection facilities; larger size for the main circuits, and a smaller size for the auxiliary circuits.

These facilities are a combination of feedthroughs and terminals. The terminals meet the requirements of the type of protection Increased Safety.

The cover is equipped with two or three bushes with operating rods.

The motor protection circuit breaker is intended to be mounted inside an enclosure in type of protection Increased Safety.

Listing of all components used referring to older standards

None

SCHEDULE OF LIMITATIONS:

After installation of the motor protection circuit-breaker into an enclosure in type of protection Increased Safety “e”, the clearances and creepage distances have to meet the requirements of IEC 60079-7.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Modification of the enclosure materials.



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Additional information: Parameters

Limits of the service temperatures
depending on the material
or

-20 °C up to 110 °C
-20 °C up to 100 °C

Rated operational voltage main contacts

up to AC 690 V
up to DC 440 V

Rated operational current main contacts

up to max. 22.5 A

Rated frequency

0/50/60 Hz

Rated operational voltage auxiliary contacts

up to AC 500 V
up to DC 250 V

Rated operational current auxiliary contacts

up to max. 6 A

Permissible cross sectional area

- for the main contacts

finely stranded conductor

solid conductor

1.5 mm² up to 6 mm²

1.5 mm² up to 10 mm²

- for the auxiliary contacts

finely stranded conductor

solid conductor

0.75 mm² up to 1.5 mm²

0.75 mm² up to 2.5 mm²