

Translation

EU-Type Examination Certificate

Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014

EU-Type Examination Certificate Number: **DMT 01 ATEX E 153 U** Issue: **01**

Component: **Motor protection circuit breaker type 8523/8*(-*)**

Manufacturer: **R. STAHL Schaltgeräte GmbH**

Address: **Am Bahnhof 30, 74638 Waldenburg, Germany**

This product and any acceptable variations thereto are specified in the appendix to this certificate and the documents referred to therein.

DEKRA Testing and Certification GmbH, Notified Body number 0158, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential Report No. BVS PP 01.2111 EU. This issue of the EU-Type Examination Certificate replaces the previous issue of the EU-Type Examination Certificate DMT 01 ATEX E 153 U including supplements 1 and 2.

Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018 **General requirements**
EN 60079-1:2014 **Flameproof enclosure "d"**
EN IEC 60079-7:2015 + A1:2018 **Increased Safety "e"**

The sign "U" placed behind the certificate number indicates that this certificate should not be confounded with certificates issued for equipment or protective systems. This partial certification may be used as a basis for certification of an equipment or protective systems. "Schedule of limitations" is listed under item 17 of this certificate.

This EU-Type Examination Certificate relates only to the technical design of the specified product in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

The marking of the product shall include the following:

 **II 2G Ex db eb IIC Gb** and/or
I M2 Ex db eb I Mb

DEKRA Testing and Certification GmbH
Bochum, 2023-02-03

Signed: Dr. Rolf Krökel

Managing Director

13 **Appendix**

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15 **Product description**

15.1 **Subject and type**

Motor protection circuit breaker type 8523/8*-(*)

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 “!”.

15.2 **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 connection 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.

Reason for this issue

Modification of the enclosure materials

Listing of all components used referring to older standards

None

15.3 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	1.5 mm ² up to 6 mm ²
solid conductor	1.5 mm ² up to 10 mm ²
- for the auxiliary contacts	
finely stranded conductor	0.75 mm ² up to 1.5 mm ²
solid conductor	0.75 mm ² up to 2.5 mm ²

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17 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 EN IEC 60079-7:2015+A1:2018.

18 Essential Health and Safety Requirements

Met by compliance with the requirements mentioned in item 9.

19 Remarks and additional information

Drawings and documents are listed in the confidential report.

We confirm the correctness of the translation from the German original.
In the case of arbitration only the German wording shall be valid and binding.

DEKRA Testing and Certification GmbH
Bochum, 2023-02-03
BVS-Ru/Mu A 20210626 / 3423486



Managing Director

