

# 1 EU-TYPE EXAMINATION CERTIFICATE



2 Equipment or Protective systems intended for use in Potentially Explosive Atmospheres - Directive 2014/34/EU

3 EU-Type Examination Certificate No: FM16ATEX0005X

4 Equipment or protective system: Series 8568/MCCB  
(Type Reference and Name) Explosion Protected Circuit Breaker

5 Name of Applicant: R STAHL Schaltgeräte GmbH

6 Address of Applicant: Am Bahnhof 30  
74638 Waldenburg  
GERMANY

7 This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and documents therein referred to.

8 FM Approvals Europe Ltd, notified body number 2809 in accordance with Article 17 of Directive 2014/34/EU of 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report number:

3056982 dated 24<sup>th</sup> February 2016

9 Compliance with the Essential Health and Safety Requirements, with the exception of those identified in item 15 of the schedule to this certificate, has been assessed by compliance with the following documents:

EN IEC 60079-0:2018, EN 60079-1:2014 and EN IEC 60079-7:2015+A1:2018

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to specific conditions of use specified in the schedule to this certificate.

11 This EU-Type Examination certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance to the directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

12 The marking of the equipment or protective system shall include:



II 2G Ex db eb IIC T6...T4 Gb  
-30 °C ≤ T<sub>AMB</sub> ≤ +40 °C...+60 °C

  
**FM Approvals**<sup>®</sup>

Member of the FM Global Group

Digitally signed by Damien Mc Ardle  
DN: cn=Damien Mc Ardle, o=FM Approvals, ou=FM Approvals Europe Ltd, email=damien.mcardle@fmapprova ls.com, c=IE  
Date: 2019.10.23 15:41:00 +01'00'

**Damien Mc Ardle**  
Certification Manager, FM Approvals Europe Ltd.

Issue date: 23<sup>rd</sup> October 2019

**THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE**

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## 13 Description of Equipment or Protective System:

The Explosion protected Circuit Breaker, Series 8568/MCCB are main and branch circuit protective devices for circuits feeding either resistive or inductive loads like lighting, motors, transformers, cables and other loads with high inrush current for use in hazardous locations.

Ordinary location molded case circuit breakers are built into flameproof enclosure with increased safety external terminals. The enclosure is molded in two different sizes for 1-pole or 2-pole circuit breakers.

The Series 8568/MCCB is available with rated voltages of 240 Vac and 125 Vdc for the 1 pole version and 240/415 Vac and 250 Vdc for the 2 pole version. Although the external enclosure is not changed, there are two sizes of ordinary location circuit breaker installed; the first being up to 60 A, and the second being up to 125 A.

## 14 Specific Conditions of Use:

1. The Explosion Protected Circuit Breaker has a normal ambient temperature range of  $-30\text{ }^{\circ}\text{C} \leq T_{\text{AMB}}$  to  $+40\text{ }^{\circ}\text{C}$ , resulting in temperature classes of T6 and T5, for the 60 A and 125 A frame sizes, respectively. Operation at a  $60\text{ }^{\circ}\text{C}$  ambient temperature is also possible, resulting in a T4 temperature class in both cases.
2. For the 60 A frame size, in a  $40\text{ }^{\circ}\text{C}$  maximum ambient, insulation of field wiring conductors shall be rated not less than  $75\text{ }^{\circ}\text{C}$ .
3. For the 125 A frame size, in a  $40\text{ }^{\circ}\text{C}$  maximum ambient, insulation of field wiring conductors shall be rated not less than  $90\text{ }^{\circ}\text{C}$ .
4. In a  $60\text{ }^{\circ}\text{C}$  maximum ambient, insulation of field wiring conductors shall be rated not less than  $110\text{ }^{\circ}\text{C}$ .
5. The flameproof enclosure cannot be repaired.
6. The Explosion Protected Circuit Breaker shall be protected from exposure to ultraviolet light.
7. The Explosion Protected Circuit Breaker shall be installed in an increased safety "eb" enclosure.

## 15 Essential Health and Safety Requirements:

The relevant EHSRs that have not been addressed by the standards listed in this certificate have been identified and assessed in the confidential report identified in item 8.

## 16 Test and Assessment Procedure and Conditions:

This EU-Type Examination Certificate is the result of testing of a sample of the product submitted, in accordance with the provisions of the relevant specific standard(s), and assessment of supporting documentation. It does not imply an assessment of the whole production.

Whilst this certificate may be used in support of a manufacturer's claim for CE Marking, FM Approvals Europe Ltd accepts no responsibility for the compliance of the equipment against all applicable Directives in all applications.

This Certificate has been issued in accordance with FM Approvals Europe Ltd's ATEX Certification Scheme.

## 17 Schedule Drawings

A list of the significant parts of the technical documentation is annexed to this certificate and a copy has been kept by the Notified Body.

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## 18 Certificate History

Details of the supplements to this certificate are described below:

Date	Description
07 <sup>th</sup> March 2016	Original Issue.
23 <sup>rd</sup> October 2019	<u>Supplement 1:</u> Report Reference: – RR220572 dated 10 <sup>th</sup> October 2019 Description of the Change: Transferred EC Type certificate from FM Approvals Ltd, notified body number 1725, to EU Type certificate from FM Approvals Europe Ltd, notified body number 2809, and update to current standards



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