

CERTIFICATE OF CONFORMITY



- HAZARDOUS LOCATION ELECTRICAL EQUIPMENT PER CANADIAN REQUIREMENTS**
- Certificate No:** FM19CA0049X
- Component:** Series 8568/MCCB. Explosion-Protected Circuit Breaker.
(Type Reference and Name)
- Name of Listing Company:** R STAHL Schaltgeräte GmbH
- Address of Listing Company:** am Bahnhof 30
74638 Waldenburg
GERMANY
- The examination and test results are recorded in confidential report number:

3056983 dated 28th February 2016
- FM Approvals LLC, certifies that the equipment described has been found to comply with the following Approval standards and other documents:

CSA C22.2 No. 60079-0:2019, CSA C22.2 No. 60079-1:2016, CSA C22.2 No. 60079-7:2016,
CSA C22.2 No. 5:2013
- 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.
- This certificate relates to the design, examination and testing of the products specified herein. The FM Approvals surveillance audit program has further determined that the manufacturing processes and quality control procedures in place are satisfactory to manufacture the component as examined, tested and Approved.
- Equipment Ratings:**

Flameproof "db" enclosure with increased safety "eb" terminals for Ex db eb IIC T6...T4 Gb hazardous locations. Also suitable for Class I, Division 2, Groups A, B, C and D T6...T4 locations based on alternate permitted marking. In a maximum +40 °C ambient, the temperature classes are T6 and T5, for the 60 A and 125 A frame sizes, respectively. Operation at a 60°C ambient temperature is also possible, resulting in a T4 temperature class in both cases.

Certificate issued by:

October 15, 2019

J. E. Marquedant
VP, Manager, Electrical Systems

Date

To verify the availability of the Approved product, please refer to www.approvalguide.com

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

FM Approvals LLC, 1151 Boston-Providence Turnpike, Norwood, MA 02062 USA
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SCHEDULE



Canadian Certificate of Conformity No: FM19CA0049X

11. The marking of the equipment shall include:

Certificate number FM19CA0049X
Hazardous location ratings per Section 12
Ambient temperature rating per Section 12
Manufacturer's name and address
Type number
Date Code
Electrical ratings

12. **Description of Equipment:**

The Explosion protected Circuit Breakers, 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 347 Vac and 125 Vdc for the 1 pole version and 480Y/277 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.

Model Code:

8568/MCCB-GS10dB-fA. Explosion Protected Circuit Breaker.

FM19CA0049X

Ex db eb IIC T4...T6 Gb Ta = -30 °C to +40 °C...+60° C

S / I / 2 / ABCD / T4...T6 Ta = -30 °C to +40 °C...+60° C

d = Poles 1 or 2.

f = Current Rating 15, 20, 25, 30, 35, 40, 45, 50, 60, 70, 80, 90, 100, 110, or 125.

13. **Specific Conditions of Use:**

1. The Explosion Protected Circuit Breaker has a normal ambient temperature range of $-30^{\circ}\text{C} \leq T_{\text{AMB}} \leq +40^{\circ}\text{C}$, resulting in temperature classes of T6 and T5, for the 60 A and 125 A frame sizes, respectively. Operation at a 60°C ambient temperature is also possible, resulting in a T4 temperature class in both cases.
2. Field wiring conductors shall be rated not less than 75°C .
3. The flameproof enclosure cannot be repaired.
4. The Explosion Protected Circuit Breaker shall be protected from exposure to ultraviolet light.
5. For Zone 1 locations, the Explosion Protected Circuit Breaker shall be installed in an increased safety "eb" enclosure.
6. For Class I, Division 2 locations, the connections to the Series 8568/MCCB may be made in a general purpose enclosure using standard connection methods. Increased safety "eb" termination methods are permitted, but are not required.

14. **Test and Assessment Procedure and Conditions:**

This Certificate has been issued in accordance with FM Approvals Canadian Certification Scheme.

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15. **Schedule Drawings**

A copy of the technical documentation has been kept by FM Approvals.

16. **Certificate History**

Details of the supplements to this certificate are described below:

Date	Description
28 th February 2016	Original Issue.
15 th October 2019	Supplement 01: Report Reference: RR220572 dated 15 th October 2019 Description of the Change: Update to current standards and new certificate format.

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