

CERTIFICATE OF CONFORMITY



1. **HAZARDOUS (CLASSIFIED) LOCATION COMPONENT PER US REQUIREMENTS**
2. **Certificate No:** FM18US0047U
3. **Component:** Series 8188. Explosion-Protected Busbar System.
(Type Reference and Name)
4. **Name of Listing Company:** R STAHL Schaltgeräte GmbH
5. **Address of Listing Company:** am Bahnhof 30
74638 Waldenburg
GERMANY
6. The examination and test results are recorded in confidential report number:

3061321 dated 1st April 2018
7. FM Approvals LLC, certifies that the component described has been found to comply with the following Approval standards and other documents:

FM Approvals Class 3600:2018, ANSI/ISA 60079-0:2013, ANSI/ISA 60079-7:2017, ANSI/UL 486E:2017, ANSI/UL 508:2008
8. The sign 'U' placed after the certificate number indicates that this certificate must not be mistaken for a certificate for equipment or a protective system. This certificate may only be used as the basis for the certification of equipment or a protective system. This certificate is issued to the manufacturer also intended to be the holder of the equipment certificate which includes this component.
9. This certificate relates to the design, examination and testing of the component 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.

Certificate issued by:



J.E. Marquedant
VP, Manager - Electrical Systems

1 April 2019

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
T: +1 (1) 781 762 4300 F: +1 (1) 781 762 9375 E-mail: information@fmapprovals.com www.fmapprovals.com

SCHEDULE



US Certificate Of Conformity No: FM18US0047U

10. Component Ratings:

Series 8188/24:

Class I, Zone 1, AEx eb IIC Gb
Class I, Division 2, Groups A, B, C, D

11. The marking of the component shall include:

CI I, Zn 1, AEx eb IIC Gb
CI I, Div 2, Gps ABCD (US)
Surrounding air temperature rating
Certificate numbers
Manufacturer's name and address
Type number
Date Code
Electrical ratings

12. **Description of Equipment:**

The 8188/24 busbar system is a means of distributing incoming power to a series of devices such as circuit breakers or other overcurrent protective device. Terminals fulfilling the requirements for Increased Safety "eb" are provided..

8188/24. Busbar System.

I / 1 / AEx eb IIC Gb
S / I / 2 / ABCD

Schedule of Limitations:

1. The busbar system is suitable for a surrounding air temperature of -40 °C to +75 °C.
2. The busbar system shall be installed in an "eb" enclosure.
3. The busbar support spacing shall not exceed 380 mm for 600 V / 10 kA sym RMS available short-circuit current.
4. The busbar support spacing shall not exceed 254 mm for 480 V / 14 kA sym RMS available short-circuit current.

13. **Schedule of Limitations:**

See Description of Equipment

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

This Certificate has been issued in accordance with FM Approvals US Certification Requirements.

15. **Schedule Drawings**

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

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16. Certificate History

Details of the supplements to this certificate are described below:

Date	Description
1 st April 2018	Original Issue.
1 st April 2019	Supplement 01: Report Reference: – RR218212 dated 1 st April 2019. Description of the Change: Increase short rating to 480 V / 14 kA.

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