

CERTIFICATE OF CONFORMITY

1. HAZARDOUS (CLASSIFIED) LOCATION COMPONENT PER US REQUIREMENTS

2. **Certificate No:** **FM19US0032U**
3. **Component:** **Series 8006.**
(Type Reference and Name) **Explosion-Protected Control, Load, and Motor Switch.**
4. **Name of Listing Company:** **R. STAHL Schaltgeräte GmbH**
5. **Address of Listing Company:** **Am Bahnhof 30, D-74638 Waldenburg (Württ.), Germany**

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

3044997 dated 12th May 2014

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

FM 3600:2022, ANSI/UL 508:2021, ANSI/UL 60079-0:2020, ANSI/UL 60079-1:2020, ANSI/UL 60079-7:2021

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.

10. Component Ratings:

Flameproof "d" with Increased Safety "e" terminals.
600 VAC / 240 VDC, up to 32 A

Certificate issued by:



J.E. Marquedant
VP, Manager - Electrical Systems

28 December 2023

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. One Technology Way, Norwood, MA 02062 USA
T: +1 (1) 781 762 4300 F: +1 (1) 781 762 9375 E-mail: information@fmapprovals.com www.fmapprovals.com

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11. The marking of the component shall include:

Zn 1, AEx db eb IIC Gb
CI I, Div 2, Groups ABCD
-50 °C ≤ Ta ≤ +40...+80 °C

12. **Description of Component:**

The Series 8006 explosion-protected control, load, and motor switch, hereafter referred to as Series 8006 Switch, is a flameproof switch with increased safety terminals suitable to make or break power supplies in hazardous locations for resistive or inductive loads like lighting, motors, transformers, and others loads for use in hazardous locations.

8006/4-a-b-c-d. Control Switch.

a = Switching arrangement 002, 003, 004, 005, 006, 007, 009, 010, 013, 016, 020, 021, 024, 025, 026, 027, 028, 030, 031, 033, 034, 035, 037, 038, 040, 042, 043, 045, 049, 052, 055, 056, 058, 060, 061, 063, 065, 071, 072, 074, 077, 079, 080, 081, 082, 086, 088, 094, 097, 099, 100, 105, 107, 109, 110, 115, 117, 119, 120, 121, 122, 123, 124, 125, 130, 134, 138, 141, 145, 147, 154, 157, 160, 163, 177, 178, 183, 191, 192, 200, 205, 207, 211, 222, 226, 230, 238, 256, 260, 261, 270, 281, 301, 325, 330, 331, 332, 348, 349, 352, 353, 355, 356, 357, or 359.

b = Socket 0, 1, 2, or 3.

c = Contact 0, 6, or 8.

d = Mounting plate blank, 1, or 2.

13. **Schedule of Limitations:**

1. The switch shall be installed in an enclosure with a minimum ingress protection of IP54.
2. The switch shall be installed in the enclosure such that the creepage and clearance comply with the requirements of specific application.
3. The switch shall be installed in the enclosure such that the creepage and clearance also complies with the Increased Safety spacing requirements of ANSI/UL 60079-7.
4. Determination of the actual temperature in the final equipment is required.
5. In no case shall the terminal temperature be greater than 100 °C
6. Limitation for safe use depending on the following values:

Variant, max current, and min cross section	Temperature rise in free air	Ambient temperature maximum	Temperature class of copper conductor for field wiring
2,3, or 4 Pole, 32 A, AWG 8	30 K	40 °C	Use with 75 °C
		50 °C	Use with 90 °C
		60 °C	
		70 °C	Use with 105 °C

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2 - 12 Pole, 25 A, AWG 10	27 K	40 °C	Use with 75 °C
		50 °C	Use with 90 °C
		60 °C	
		70 °C	Use with 105 °C
2 - 12 Pole, 16 A, AWG 12	17 K	40 °C	Use with 60 °C
		50 °C	Use with 75 °C
		60 °C	Use with 90 °C
		70 °C	
		80 °C	Use with 105 °C

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.

16. Certificate History

Details of the supplements to this certificate are described below:

Date	Description
12 May 2014	Original Issue.
2 April 2019	<u>Supplement 01:</u> Report Reference: – PR452546 dated 2 nd April 2019. Description of the Change: Increase AC rating to 32 A. Update to latest standards.
31 July 2023	<u>Supplement 2:</u> Report Reference: RR237634 dated 31 July 2023. Description of the Change(s): Addition of a List of Routine Tests drawing no 8006 0 000 033 0 -Update of Standards -Structure revised acc. to current IECEx Certificate with new bolt -Change of Trademark Logo -Transfer of the material list into an own document see drawing 80 060 23 00 0 -Update of Data Sheets

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Date	Description
28 December 2023	<u>Supplement 3:</u> Report Reference: RR239852 dated 28 December 2023. Description of the Change(s): Update of Schedule of Limitations

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