

CERTIFICATE OF CONFORMITY

1. HAZARDOUS LOCATION ELECTRICAL EQUIPMENT PER CANADIAN REQUIREMENTS

2. **Certificate No:** FM18CA0132X
3. **Equipment:** Series 7146/5. Explosion-Protected Disconnect.
(Type Reference and Name) Series 8146/5. Explosion-Protected Disconnect.
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:

PR451150 dated 17th January 2019

7. 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. 14:2013, CSA C22.2 No. 213:2017 (R2022), CSA C22.2 No. 60079-0:2019 (R2024),
CSA C22.2 No. 60079-1:2016 (R2021), CSA C22.2 No. 60079-7:2016, CSA C22.2 No. 60079-31:2015 (R2020)

8. 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.

9. 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 product as examined, tested and Approved.

10. Equipment Ratings:

Refer to the Annex

Certificate issued by:



J.E. Marquedant
VP, Manager - Electrical Systems

29 April 2025

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

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11. The marking of the equipment shall include:

for both Series 7146/5 and 8146/5:

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

Refer to the annex for details

12. **Description of Equipment:**

The explosion-protected disconnect is designed and intended for "Load & Motor" applications as well as "Disconnect" applications. In addition to the explosion-protected switches, for Class I, Division 2 applications, a non-indicating, current-limiting, Class J, fuse can also be included within the enclosure. Field wiring terminals can also be included.

8146/5-V11-ab-c-def0-0. Disconnect.

I / 1 / Ex db eb IIC / T6...T5 Ta = -30 °C...-50 °C** to +40 °C...+55 °C

DIP / II-III / 1 / EFG / T6...T5 Ta = -30 °C...-50 °C** to +40 °C...+55 °C

Type 3, 4, 4X, IP66

a = Pole arrangement D, E, or H.

b = Switch rating: 01, 02, 03, 04, 06, 07, or 08.

c = Auxiliary Contacts: 00, 01, 10, 11, 20, 21, 22, 02, 12, 30, 31, 32, 33, 03, 13, 12, 40, 41, 42, 43, 44, 04, 14, 24, 34, 50, or 60.

d = Handle Option: 0, 1, or 2.

e = Terminal Connections: 0 or 5.

f = Entries: 0, 1, 2, 3, 4, or 6.

** Disconnects with hub entries (option f = 1) are limited to -30 °C.

The 8146/5-V11-x01, with a maximum current of 15 A, provides a temperature class of T6 in a maximum +40°C ambient.

Electrical Ratings:

1. The 8146/5-V11-x02, with a maximum current of 16 A, provides a temperature class of T6 in a maximum +40 °C ambient.
2. The 8146/5-V11-x02, with a maximum current of 12 A, provides a temperature class of T5 in a maximum +55 °C ambient.
3. The 8146/5-V11-x03, with a maximum current of 25 A, provides a temperature class of T6 in a maximum +40 °C ambient.
4. The 8146/5-V11-x03, with a maximum current of 25 A, provides a temperature class of T5 in a maximum +55 °C ambient.
5. The 8146/5-V11-x04, with a maximum current of 32 A, provides a temperature class of T5 in a maximum +40 °C ambient.

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6. The 8146/5-V11-x04, with a maximum current of 32 A, provides a temperature class of T5 in a maximum +55 °C ambient.
7. The 8146/5-V11-x06, with a maximum current of 63 A, provides a temperature class of T5 in a maximum +40 °C or +55 °C ambient.
8. The 8146/5-V11-x07, with a maximum current of 80 A, provides a temperature class of T5 in a maximum +40 °C or +55 °C ambient.
9. The 8146/5-V11-x08, with a maximum current of 125 A, provides a temperature class of T5 in a maximum +40 °C or +55 °C ambient.

8146/5-V11-ab-c-def0-0. Disconnect.

I / 1 / Ex db eb IIC / T4 Ta = -30 °C...-50 °C** to +40 °C...+55 °C

Type 3, 4, 4X, IP66

a = Pole arrangement D, E, of H.

b = Switch rating: 09 or 32.

c = Auxiliary Contacts: 00, 01, 10, 11, 20, 21, 22, 02, 12, 30, 31, 32, 33, 03, 13, 12, 40, 41, 42, 43, 44, 04, 14, 24, 34, 50, or 60.

d = Handle Option: 0, 1, or 2.

e = Terminal Connections: 0 or 5.

f = Entries: 0, 1, 2, 3, 4, or 6.

** Disconnects with hub entries (option f = 1) are limited to -30 °C.

Electrical Ratings:

1. The 8146/5-V11-x32, with a maximum current of 100 A, provides a temperature class of T4 in a maximum +40 °C or +55 °C ambient.
2. The 8146/5-V11-x09, with a maximum current of 150 A, provides a temperature class of T4 in a maximum +40 °C or +55 °C ambient.

7146/5-V11-ab-c-def0-0. Disconnect.

IPA / I / 2 / ABCD / T6...T4 Ta = -20 °C...-50 °C** to +40 °C...+55 °C

Type 3, 4, 4X, IP66

a = Pole arrangement D, E, or H.

b = Switch rating 01, 02, 03, 04, 06, 07, 08, 09, or 32.

c = Auxiliary Contacts: 00, 01, 10, 11, 20, 21, 22, 02, 12, 30, 31, 32, 33, 03, 13, 12, 40, 41, 42, 43, 44, 04, 14, 24, 34, 50, or 60.

d = Handle Option: 0, 1, or 2.

e = Terminal Connections: 0 or 5.

f = Entries: 0, 1, 2, 3, 4, or 6.

** Disconnects with hub entries (option f = 1) are limited to -30 °C.

Electrical Ratings:

1. The 7146/5-V11-x01, with a maximum current of 15 A, provides a temperature class of T6 in a maximum +40 °C ambient.
2. The 7146/5-V11-x01, with a maximum current of 12 A, provides a temperature class of T5 in a maximum +55 °C ambient.
3. The 7146/5-V11-x02, with a maximum current of 16 A, provides a temperature class of T6 in a maximum +40 °C ambient.

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4. The 7146/5-V11-x02, with a maximum current of 12 A, provides a temperature class of T5 in a maximum +55 °C ambient.
5. The 7146/5-V11-x03, with a maximum current of 25 A, provides a temperature class of T6 in a maximum +40 °C ambient.
6. The 7146/5-V11-x03, with a maximum current of 25 A, provides a temperature class of T5 in a maximum +55 °C ambient.
7. The 7146/5-V11-x04, with a maximum current of 32 A, provides a temperature class of T5 in a maximum +40 °C ambient.
8. The 7146/5-V11-x04, with a maximum current of 32 A, provides a temperature class of T5 in a maximum +55 °C ambient.
9. The 7146/5-V11-x06, with a maximum current of 60 A, provides a temperature class of T5 in a maximum +40 °C or +55 °C ambient.
10. The 7146/5-V11-x07, with a maximum current of 80 A, provides a temperature class of T5 in a maximum +40 °C or +55 °C ambient.
11. The 7146/5-V11-x32, with a maximum current of 100 A, provides a temperature class of T4 in a maximum +40 °C or +55 °C ambient.
12. The 7146/5-V11-x08, with a maximum current of 125 A, provides a temperature class of T5 in a maximum +40 °C or +55 °C ambient.
13. The 7146/5-V11-x09, with a maximum current of 150 A, provides a temperature class of T4 in a maximum +40 °C or +55 °C ambient.

7146/5-V11-ab-c-def0-0. Fused disconnect.

IPA / I / 2 / ABCD / T4 Ta = -20 °C...-40 °C** to +40 °C...+55 °C

Type 3, 4, 4X, IP66

a = Pole arrangement D, E, or H.

b = Switch rating 01, 02, 03, 04, 06, 07, 08, or 32.

c = Auxiliary Contacts: AA, AB, AC, AD, AE, BA, BB, BC, BD, BE, CA, CB, CC, CD, CE, DA, DB, DC, DD, DE, EA, EB, EC, ED, EE, FA, FB, FC, FD, FE, GA, GB, GC, GD, GE, HA, HB, HC, HD, or HE.

d = Handle Option: 0, 1, or 2.

e = Terminal Connections: 0 or 5.

f = Entries: 0, 1, 2, 3, 4, or 6.

** Disconnects with Bussmann or Littelfuse fuses are limited to -40 °C. Disconnects with Bussmann or Littelfuse fingersafe fuseholders are limited to -20 °C. Disconnects with hub entries (option f = 1) or Mersen fuses are limited to -30 °C.

Electrical Ratings:

1. The 7146/5-V11-x01, with a maximum current of 15 A, provides a temperature class of T4 in a maximum +40 °C or +55 °C ambient.
2. The 7146/5-V11-x02, with a maximum current of 16 A, provides a temperature class of T4 in a maximum +40 °C or +55 °C ambient.
3. The 7146/5-V11-x03, with a maximum current of 25 A, provides a temperature class of T4 in a maximum +40 °C or +55 °C ambient.
4. The 7146/5-V11-x04, with a maximum current of 32 A, provides a temperature class of T4 in a maximum +40 °C or +55 °C ambient.

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5. The 7146/5-V11-x06, with a maximum current of 60 A, provides a temperature class of T4 in a maximum +40 °C or +55 °C ambient.
6. The 7146/5-V11-x07, with a maximum current of 80 A, provides a temperature class of T4 in a maximum +40 °C or +55 °C ambient.
7. The 7146/5-V11-x32, with a maximum current of 100 A, provides a temperature class of T4 in a maximum +55 °C ambient.
8. The 7146/5-V11-x08, with a maximum current of 125 A, provides a temperature class of T4 in a maximum +40 °C ambient.

13. Specific Conditions of Use:

Refer to the Annex

14. Test and Assessment Procedure and Conditions:

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

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
17 January 2019	Original Issue.
15 May 2019	<u>Supplement 01:</u> Report Reference: RR218636 dated 15 th May 2019 Description of Changes: Update 8006 ratings to 32A. Correct existing anomalies in Model Structure Listing
22 May 2020	<u>Supplement 02:</u> Report Reference: PR457293 dated 22 nd May 2020. Rationalization of Model Structure
9 October 2020	<u>Supplement 03:</u> Report Reference: RR224887 dated 9 th October 2020. Rationalization of Model Structure to align with SAP System
29 April 2025	<u>Supplement 4:</u> Report Reference: RR245881 dated 29 April 2025. Description of the Change(s): Minor clarifications that do not affect the safety of the product.

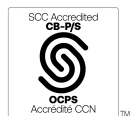
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ANNEX

7146/5-V11

Equipment Ratings:

Suitable for Class I, Division 2, Groups A, B, C and D T6...T4 Ta = -20°C...-50 °C** to +40 °C...+55 °C, with an ingress protection of Type 3, 4, 4X and IP66.

Markings:

Class I, Division 2, Groups A, B, C, D, T6...T4 Ta = -20 °C...-50 °C** to +40 °C...+55 °C
Type 3, 4, 4X, IP66

** Disconnects with Bussmann or Littelfuse fuses are limited to -40 °C. Disconnects with Bussmann or Littelfuse fingersafe fuseholders are limited to -20 °C. Disconnects with hub entries or Mersen fuses are limited to -30 °C. See equipment details for specific ratings

Description of Equipment:

7146/5-V11-ab-c-def0-0. Disconnect.

a = Pole arrangement D, E, or H.

b = Switch rating 01, 02, 03, 04, 06, 07, 08, 09, or 32.

c = Auxiliary Contacts: 00, 01, 10, 11, 20, 21, 22, 02, 12, 30, 31, 32, 33, 03, 13, 12, 40, 41, 42, 43, 44, 04, 14, 24, 34, 50, or 60.

d = Handle Option: 0, 1, or 2.

e = Terminal Connections: 0 or 5.

f = Entries: 0, 1, 2, 3, 4, or 6.

**Disconnects with hub entries (option f = 1) are limited to -30 °C.

Specific Conditions of Use:

1. The flameproof joints of the explosion-protected switches cannot be repaired.

Electrical Ratings:

- The 7146/5-V11-x01, with a maximum current of 15 A, provide a temperature class of T6 in a maximum +40 °C ambient.
- The 7146/5-V11-x01, with a maximum current of 12 A, provide a temperature class of T5 in a maximum +55 °C ambient.
- The 7146/5-V11-x02, with a maximum current of 16 A, provides a temperature class of T6 in a maximum +40 °C ambient.
- The 7146/5-V11-x02, with a maximum current of 12 A, provides a temperature class of T5 in a maximum +55 °C ambient.

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- The 7146/5-V11-2x03, with a maximum current of 25 A, provide a temperature class of T6 in a maximum +40 °C ambient.
- The 7146/5-V11-x03, with a maximum current of 25 A, provide a temperature class of T5 in a maximum +55 °C ambient.
- The 7146/5-V11-x04 with a maximum current of 32 A, provide a temperature class of T5 in a maximum +40 °C ambient.
- The 7146/5-V11-x06 with a maximum current of 32 A, provide a temperature class of T5 in a maximum +55 °C ambient.
- The 7146/5-V11-x06, with a maximum current of 60 A, provide a temperature class of T5 in a maximum +40 °C or +55 °C ambient.
- The 7146/5-V11-x07, with a maximum current of 80 A, provide a temperature class of T5 in a maximum +40 °C or +55 °C ambient.
- The 7146/5-V11-x32, with a maximum current of 100 A, provide a temperature class of T4 in a maximum +40 °C or +55 °C ambient.
- The 7146/5-V11-x08, with a maximum current of 125 A, provide a temperature class of T5 in a maximum +40 °C or +55 °C ambient.
- The 7146/5-V11-x09, with a maximum current of 150 A, provide a temperature class of T4 in a maximum +40 °C or +55 °C ambient.

7146/5-V11

Equipment Ratings:

Suitable for Class I, Division 2, Groups A, B, C and D T6...T4 Ta = -20°C...-50 °C** to +40 °C...+55 °C, with an ingress protection of Type 3, 4, 4X and IP66.

Markings:

Class I, Division 2, Groups A, B, C, D, T6...T4 Ta = -20 °C...-50 °C** to +40 °C...+55 °C
Type 3, 4, 4X, IP66

** Disconnects with Bussmann or Littelfuse fuses are limited to -40 °C. Disconnects with Bussmann or Littelfuse fingersafe fuseholders are limited to -20 °C. Disconnects with hub entries or Mersen fuses are limited to -30 °C. See equipment details for specific ratings

Description of Equipment:

7146/5-V11-ab-c-def0-0. Fused disconnect.

a = Pole arrangement 3, 4, or 7 D, E, or H.

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b = Switch rating 01, 02, 03, 04, 06, 07, 08 or 32.

e = Auxiliary Contacts: AA, AB, AC, AD, AE, BA, BB, BC, BD, DE, CA, CB, CC, CD, CE, DA, DB, BC, DD, DE, EA, EB, EC, ED, EE, FA, FB, FC, FD, FE, GA, GB, GC, GD, GE, HA, HB, HC, HD, or HE.

d = Handle Option: 0, 1, or 2.

e = Terminal Connections: 0 or 5.

f = Entries: 0, 1, 2, 3, 4, or 6.

** Disconnects with Bussmann or Littelfuse fuses are limited to -40 °C. Disconnects with Bussmann or Littelfuse fingersafe fuseholders are limited to -20 °C. Disconnects with hub entries (option f = 1) or Mersen fuses are limited to -30 °C.

Specific Conditions of Use:

1. The flameproof joints of the explosion-protected switches cannot be repaired.

Electrical Ratings

- The 7146/5-V11-x01, with a maximum current of 15 A, provide a temperature class of T4 in a maximum +40 °C or +55 °C ambient.
- The 7146/5-V11-x02, with a maximum current of 16 A, provide a temperature class of T4 in a maximum +40 °C or +55 °C ambient.
- The 7146/5-V11-x03, with a maximum current of 25 A, provide a temperature class of T4 in a maximum +40 °C or +55 °C ambient.
- The 7146/5-V11-x04, with a maximum current of 32 A, provide a temperature class of T4 in a maximum +40 °C or +55 °C ambient.
- The 7146/5-V11-x06, with a maximum current of 60 A, provide a temperature class of T4 in a maximum +40 °C or +55 °C ambient.
- The 7146/5-V11-x07, with a maximum current of 80 A, provide a temperature class of T4 in a maximum +40 °C or +55 °C ambient.
- The 7146/5-V11-x32, with a maximum current of 100 A, provide a temperature class of T4 in a maximum +55 °C ambient.
- The 7146/5-V11-x08, with a maximum current of 125 A, provide a temperature class of T4 in a maximum +40 °C ambient.

8146/5-V11

Equipment Ratings:

Flameproof Ex db eb Group IIC T6...T4 Gb Ta = -30 °C...-50 °C** to +40 °C...+55 °C; Dust-ignition proof for Class II, III, Division 1, Groups E, F and G T6...T5 Ta = -30 °C...-50 °C** to +40 °C...+55 °C. With an ingress protection of Type 3, 4, 4X and IP66.

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Markings:

Ex db eb IIC T6...T4 Gb Ta = -30 °C...-50 °C** to +40 °C...+55 °C

Class II-III, Division 1, Groups E, F, G, T6...T5 Ta = -30 °C...-50 °C** to +40 °C...+55 °C

Type 3, 4, 4X, IP66

** Disconnects with hub entries are limited to -30 °C.

See equipment details for specific ratings

Description of Equipment:

8146/5-V11-ab-c-def0-0. Disconnect.

a = Pole arrangement D, E, or H.

b = Switch rating 01, 02, 03, 04, 06, 07, or 08.

c = Auxiliary Contacts: 00, 01, 10, 11, 20, 21, 22, 02, 12, 30, 31, 32, 33, 03, 13, 12, 40, 41, 42, 43, 44, 04, 14, 24, 34, 50, or 60.

d = Handle Option: 0, 1, or 2.

e = Terminal Connections: 0 or 5.

f = Entries: 0, 1, 2, 3, 4, or 6.

** Disconnects with hub entries (option f = 1) are limited to -30 °C.

Specific Conditions of Use:

1. The flameproof joints of the explosion-protected switches cannot be repaired.

Electrical Ratings:

- The 8146/5-V11-x02, with a maximum current of 16 A, provides a temperature class of T6 in a maximum +40 °C ambient.
- The 8146/5-V11-x02, with a maximum current of 12 A, provides a temperature class of T5 in a maximum +55 °C ambient.
- The 8146/5-V11-x03, with a maximum current of 25 A, provide a temperature class of T6 in a maximum +40 °C ambient.
- The 8146/5-V11-x03, with a maximum current of 25 A, provide a temperature class of T5 in a maximum +55 °C ambient.
- The 8146/5-V11-x04, with a maximum current of 32 A, provide a temperature class of T5 in a maximum +40 °C ambient.
- The 8146/5-V11-x04, with a maximum current of 32 A, provide a temperature class of T5 in a maximum +55 °C ambient.
- The 8146/5-V11-x06, with a maximum current of 63 A, provide a temperature class of T5 in a maximum +40 °C or +55 °C ambient.

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- The 8146/5-V11-x07, with a maximum current of 80 A, provide a temperature class of T5 in a maximum +40 °C or +55 °C ambient.
- The 8146/5-V11-x08, with a maximum current of 125 A, provide a temperature class of T5 in a maximum +40 °C or +55 °C ambient.

8146/5-V11

Equipment Ratings:

Flameproof Ex db eb Group IIC T6...T4 Gb Ta = -30 °C...-50 °C** to +40 °C...+55 °C; Dust-ignition proof for Class II, III, Division 1, Groups E, F and G T6...T5 Ta = -30 °C...-50 °C** to +40 °C...+55 °C. With an ingress protection of Type 3, 4, 4X and IP66.

Markings:

Ex db eb IIC T6...T4 Gb Ta = -30 °C...-50 °C** to +40 °C...+55 °C

Class II-III, Division 1, Groups E, F, G, T6...T5 Ta = -30 °C...-50 °C** to +40 °C...+55 °C

Type 3, 4, 4X, IP66

** Disconnects with hub entries are limited to -30 °C.

See equipment details for specific ratings

Description of Equipment:

8146/5-V11-ab-c-def0-0. Disconnect.

a = Pole arrangement D, E, or H.

b = Switch rating 09 or 32.

c = Auxiliary Contacts: 00, 01, 10, 11, 20, 21, 22, 02, 12, 30, 31, 32, 33, 03, 13, 12, 40, 41, 42, 43, 44, 04, 14, 24, 34, 50, or 60.

d = Handle Option: 0, 1, or 2.

e = Terminal Connections: 0 or 5.

f = Entries: 0, 1, 2, 3, 4, or 6.

** Disconnects with hub entries (option f = 1) are limited to -30 °C.

Specific Conditions of Use:

1. The flameproof joints of the explosion-protected switches cannot be repaired.

Electrical Ratings

- The 8146/5-V11-x32, with a maximum current of 100 A, provide a temperature class of T4 in a maximum +40 °C or +55 °C ambient.
- The 8146/5-V11-x09, with a maximum current of 150 A, provide a temperature class of T4 in a maximum +40 °C or +55 °C ambient.

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