

# CERTIFICATE OF CONFORMITY



## 1. HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT PER US REQUIREMENTS

2. Certificate No: FM17US0039X
3. Equipment:  
(Type Reference and Name) Series 7150/5. Explosion-Protected Disconnect.  
Series 8150/5. 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:

3050071 dated 9<sup>th</sup> June 2014

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

FM 3600:2022, FM 3611:2018, FM 3616:2022, ANSI/UL 508:2021, ANSI/UL 60079-0:2019,  
ANSI/UL 60079-1:2015, ANSI/UL 60079-7:2017, ANSI/UL 60079-31:2015

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](http://www.approvalguide.com)

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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 7150/5 and 8150/5:**

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.

**8150/5-V11-ab-c-def0-0. Disconnect.**

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

S / I / 2 / ABCD / T6...T5 Ta = -50 °C\*\* to +40 °C...+55 °C

DIP / II-III / 1 / EFG / T6...T5 Ta = -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, or 07.

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 8150/5-V11-x01, with a maximum current of 15 A, provides a temperature class of T6 in a maximum +40 °C ambient.
2. The 8150/5-V11-x01, with a maximum current of 12 A, provides a temperature class of T5 in a maximum +55 °C ambient.
3. The 8150/5-V11-x02, with a maximum current of 16 A, provides a temperature class of T6 in a maximum +40 °C ambient.
4. The 8150/5-V11-x02, with a maximum current of 12 A, provides a temperature class of T5 in a maximum +55 °C ambient.
5. The 8150/5-V11-x03, with a maximum current of 25 A, provides a temperature class of T5 in a maximum +40 °C or +55 °C ambient.

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6. The 8150/5-V11-x04, with a maximum current of 63 A, provides a temperature class of T5 in a maximum +40 °C or +55 °C ambient.
7. The 8150/5-V11-x06, with a maximum current of 63 A, provides a temperature class of T6 in a maximum +40 °C ambient.
8. The 8150/5-V11-x06, with a maximum current of 60 A, provides a temperature class of T5 in a maximum +55 °C ambient.
9. The 8150/5-V11-x07, with a maximum current of 80 A, (@≤480 VAC) provides a temperature class of T6 in a maximum +40 °C ambient.

### **8150/5-V11-ab-c-def0-0. Disconnect.**

I / 1 / AEx db eb IIC / T5...T4 Ta = -50 °C\*\* to +40 °C...+55 °C

S / I / 2 / ABCD / T5...T4 Ta = -50 °C\*\* to +40 °C...+55 °C

Type 3, 4, 4X, IP66

a = Pole arrangement D, E, or H.

b = Switch rating 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 8150/5-V11-x08, with a maximum current of 125 A, provides a temperature class of T5 in a maximum +40 °C ambient.
2. The 8150/5-V11-x09, with a maximum current of 150 A (@≤480 VAC), provides a temperature class of T5 in a maximum +40 °C ambient.
3. The 8150/5-V11-x32 with a maximum current of 100 A, provides a temperature class of T4 in a maximum +55 °C ambient.

### **7150/5-V11-ab-c-def0-0. Disconnect.**

S / I / 2 / ABCD / T6...T4 Ta = -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 7150/5-V11-x01, with a maximum current of 15 A, provides a temperature class of T6 in a maximum +40 °C ambient.

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2. The 7150/5-V11-x01, with a maximum current of 12 A, provides a temperature class of T5 in a maximum +55 °C ambient.
3. The 7150/5-V11-x02, with a maximum current of 16 A, provides a temperature class of T6 in a maximum +40 °C ambient.
4. The 7150/5-V11-x02, with a maximum current of 12 A, provides a temperature class of T5 in a maximum +55 °C ambient.
5. The 7150/5-V11-x03, with a maximum current of 25 A, provides a temperature class of T5 in a maximum +40 °C or +55 °C ambient.
6. The 7150/5-V11-x04, with a maximum current of 32 A, provides a temperature class of T5 in a maximum +40 °C or +55 °C ambient.
7. The 7150/5-V11-x06, with a maximum current of 60 A, provides a temperature class of T6 in a maximum +40 °C ambient.
8. The 7150/5-V11-x06, with a maximum current of 60 A, provides a temperature class of T5 in a maximum +55 °C ambient.
9. The 7150/5-V11-x07, with a maximum current of 80 (@≤480 VAC) A, provides a temperature class of T6 in a maximum +40 °C ambient.
10. The 7150/5-V11-x07, with a maximum current of 60 A, provides a temperature class of T5 in a maximum +55 °C ambient.
11. The 7150/5-V11-x08, with a maximum current of 125 A, provides a temperature class of T5 in a maximum +40 °C ambient.
12. The 7150/5-V11-x32, with a maximum current of 100 A, provides a temperature class of T4 in a maximum +55 °C ambient.
13. The 7150/5-V11-x09, with a maximum current of 150 A (@ ≤480 VAC), provides a temperature class of T5 in a maximum +40 °C ambient.

### **7150/5-V11-ab-c-def0-0. Fused disconnect.**

S / 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 7150/5-V11-01, with a maximum current of 15 A, provide a temperature class of T4 in a maximum +40 °C or +55 °C ambient.
2. The 7150/5-V11-02, with a maximum current of 16 A, provide a temperature class of T4 in a maximum +40 °C or +55 °C ambient.

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3. The 7150/5-V11-03, with a maximum current of 25 A, provide a temperature class of T4 in a maximum +40 °C or +55 °C ambient.
4. The 7150/5-V11-04, with a maximum current of 32 A, provide a temperature class of T4 in a maximum +40 °C or +55 °C ambient.
5. The 7150/5-V11-06, with a maximum current of 60 A, provide a temperature class of T4 in a maximum +40 °C or +55 °C ambient.
6. The 7150/5-V11-07, with a maximum current of 80 A, provide a temperature class of T4 in a maximum +40 °C or +55 °C ambient.
7. The 7150/5-V11-32, with a maximum current of 100 A, provide a temperature class of T4 in a maximum +55 °C ambient.
8. The 7150/5-V11-08, with a maximum current of 125 A, provide 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 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
9 June 2014	Original Issue.
17 December 2014	Supplement 01: 3053749 dated 17 <sup>th</sup> December 2014 Description of the change: Added 150 A rating for 8150/5-bc9-ef.
19 February 2017	Supplement 02: 3050071 - RR208415 dated 19 <sup>th</sup> February 2017. Description of the Change: Reduction of lower ambient to -40 °C for 8150/5-bc2-ef.

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Date	Description
10 August 2018	Supplement 03: 3050071 – RR215181 dated 10 <sup>th</sup> August 2018. Description of the Change: <ol style="list-style-type: none"><li>1. Minimum ambient lowered to -50 °C with limitations to -40 °C or -30 °C for some constructions</li><li>2. Enclosure material options 3 and 4 eliminated. Only Enclosure material option “5” (316 stainless steel) is now included</li><li>3. Switch rating “1” added for 7150/5 to allow marking for 15 A rating</li><li>4. Switch ratings “7” and “8” added to allow differentiation between 480 VAC and 600 VAC ratings.</li></ol>
15 May 2019	Supplement 04: Report Reference: RR218636 dated 15 <sup>th</sup> May 2019. Description of Changes: Update 8006 ratings to 32A. Correct existing anomalies in Model Structure Listing
22 May 2020	Supplement 05: Report Reference: PR457293 dated 22 <sup>nd</sup> May 2020. Rationalization of Model Structure
9 October 2020	Supplement 06: Report Reference: RR224887 dated 9 <sup>th</sup> October 2020. Rationalization of Model Structure to align with SAP System
29 April 2025	Supplement 7: 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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## **SCHEDULE**

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**FM Approvals**

# **ANNEX**

## **7150/5-V11**

### **Equipment Ratings:**

Suitable for Class I, Division 2, Groups A, B, C and D T6...T4 Ta = -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 = -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 hub entries or Mersen fuses are limited to -30 °C.

See equipment details for specific ratings

### **Description of Equipment:**

#### **7150/5-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 7150/5-V11-x01 with a maximum current of 15 A, provides a temperature class of T6 in a maximum +40 °C ambient.
- The 7150/5-V11-x01 with a maximum current of 12 A, provides a temperature class of T5 in a maximum +55 °C ambient.
- The 7150/5-V11-x02 with a maximum current of 16 A, provides a temperature class of T6 in a maximum +40 °C ambient.
- The 7150/5-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 7150/5-V11-x03, with a maximum current of 25 A, provides a temperature class of T5 in a maximum +40 °C or +55 °C ambient.
- The 7150/5-V11-x04, with a maximum current of 32 A, provides a temperature class of T5 in a maximum +40 °C or +55 °C ambient.
- The 7150/5-V11-x06, with a maximum current of 60 A, provides a temperature class of T6 in a maximum +40 °C ambient.
- The 7150/5-V11-x06, with a maximum current of 60 A, provides a temperature class of T5 in a maximum +55 °C ambient.
- The 7150/5-V11-x07, with a maximum current of 80 (@ ≤480 VAC) A, provides a temperature class of T6 in a maximum +40 °C ambient.
- The 7150/5-V11-x07, with a maximum current of 60 A, provides a temperature class of T5 in a maximum +55 °C ambient.
- The 7150/5-V11-x32, with a maximum current of 100 A, provides a temperature class of T4 in a maximum +55 °C ambient.
- The 7150/5-V11-x08, with a maximum current of 125 A, provides a temperature class of T5 in a maximum +40 °C ambient.
- The 7150/5-V11-x09, with a maximum current of 150 A (@ ≤480 VAC), provides a temperature class of T5 in a maximum +40 °C ambient.

## 7150/5-V11

### Equipment Ratings:

Suitable for Class I, Division 2, Groups A, B, C and D T6...T4 Ta = -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 = -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 hub entries or Mersen fuses are limited to -30 °C.

See equipment details for specific ratings

### Description of Equipment:

**7150/5-V11-ab-c-def0-0. Fused disconnect.**

a = Pole arrangement D, E, or H.

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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.

### **Specific Conditions of Use:**

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

### **Electrical Ratings:**

- The 7150/5-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 7150/5-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 7150/5-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 7150/5-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 7150/5-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 7150/5-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 7150/5-V11-x32, with a maximum current of 100 A, provide a temperature class of T4 in a maximum +55 °C ambient.
- The 7150/5-V11-x08, with a maximum current of 125 A, provide a temperature class of T4 in a maximum +40 °C ambient.

## **8150/5-V11**

### **Equipment Ratings:**

Flameproof for Class I, Zone 1, AEx db eb Group IIC T6...T5; Suitable for Class I, Division 2, Groups A, B, C and D T6...T5; Dust-ignition proof for Class II, III, Division 1, Groups E, F and G T6...T5. With an ingress protection of Type 3,

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4, 4X and IP66. Ta = -50 °C\*\* to +40 °C...+55 °C

### **Markings:**

Class I, Zone 1, AEx db eb IIC T6...T5 Gb Ta = -50 °C\*\* to +40 °C...+55 °C

Class I, Division 2, Groups A, B, C, D, T6...T5 Ta = -50 °C\*\* to +40 °C...+55 °C

Class II-III, Division 1, Groups E, F, G, T6...T5 Ta = -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:**

#### **8150/5-V11-ab-c-def0-0. Disconnect.**

a = Pole arrangement D, E, or H.

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

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 8150/5-V11-x01, with a maximum current of 15 A, provides a temperature class of T6 in a maximum +40 °C ambient.
- The 8150/5-V11-x01, with a maximum current of 12 A, provides a temperature class of T5 in a maximum +55 °C ambient.
- The 8150/5-V11-x02, with a maximum current of 16 A, provides a temperature class of T6 in a maximum +40 °C ambient.
- The 8150/5-V11-x02, with a maximum current of 12 A, provides a temperature class of T5 in a maximum +55 °C ambient.
- The 8150/5-V11-x03, with a maximum current of 25 A, provides a temperature class of T5 in a maximum +40 °C or +55 °C ambient.
- The 8150/5-V11-x04, with a maximum current of 63 A, provides a temperature class of T5 in a maximum +40 °C or +55 °C ambient.
- The 8150/5-V11-x06 with a maximum current of 63 A, provides a temperature class of T6 in a maximum +40 °C ambient.

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F 347 (Jul 24)



## SCHEDULE

US Certificate of Conformity No: FM17US0039X

**FM Approvals**

- The 8150/5-V11-x06, with a maximum current of 60 A, provides a temperature class of T5 in a maximum +55 °C ambient.
- The 8150/5-V11-x07, with a maximum current of 80 A, (@≤480 VAC) provides a temperature class of T6 in a maximum +40 °C ambient.

### 8150/5-V11

#### Equipment Ratings:

Flameproof for Class I, Zone 1, AEx db eb Group IIC T6...T5; Suitable for Class I, Division 2, Groups A, B, C and D T6...T5; Dust-ignition proof for Class II, III, Division 1, Groups E, F and G T6...T5. With an ingress protection of Type 2, 3, 4X and IP66. Ta = -50 °C\*\* to +40 °C...+55 °C

#### Markings:

Class I, Zone 1, AEx db eb IIC T6...T5 Gb Ta = -50 °C\*\* to +40 °C...+55 °C  
Class I, Division 2, Groups A, B, C, D, T6...T5 Ta = -50 °C\*\* to +40 °C...+55 °C  
Class II-III, Division 1, Groups E, F, G, T6...T5 Ta = -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:

##### 8150/5-V11-ab-c-def0-0. Disconnect.

a = Pole arrangement D, E, or H.

b = Switch rating 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 8150/5-V11-x08, with a maximum current of 125 A, provides a temperature class of T5 in a maximum +40 °C ambient.
- The 8150/5-V11-x09, with a maximum current of 150 A (@≤480 VAC), provides a temperature class of T5 in a maximum +40 °C ambient.

To verify the availability of the Approved product, please refer to [www.approvalguide.com](http://www.approvalguide.com)

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## SCHEDULE

US Certificate of Conformity No: FM17US0039X

**FM** Approvals

- *The 8150/5-V11-x32, with a maximum current of 100 A, provides a temperature class of T4 in a maximum +55 °C ambient.*



To verify the availability of the Approved product, please refer to [www.approvalguide.com](http://www.approvalguide.com)

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