# **CERTIFICATE OF CONFORMITY**



1. HAZARDOUS (CLASSIFIED) LOCATION COMPONENT PER US REQUIREMENTS

2. Certificate No:

FM22US0011U

3. Component:

(Type Reference and Name)

Series 8550
Explosion-Protected Circuit Protection Devices.

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:

PR458082 dated 15th June 2022

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 3600:2022; ANSI/UL 60079-0:2020; ANSI/UL 60079-1:2020; ANSI/UL 60079-7:2021; ANSI/UL 489:2019; ANSI/UL 60947-1:2019; and ANSI/UL 60947-4-1:2017

- 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

15 June 2022

Date

To verify the availability of the Approved product, please refer to <a href="www.approvalguide.com">www.approvalguide.com</a>

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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: <a href="mailto:information@fmapprovals.com">information@fmapprovals.com</a> www.fmapprovals.com

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# **SCHEDULE**



US Certificate of Conformity No: FM22US0011U

#### 10. Component Ratings:

Flameproof "db" enclosure with increased safety "eb" terminals for Zone 1, AEx db eb IIB (or IIC) Gb. Also suitable for Class I, Division 2, Groups CD (or Groups ABCD) based on alternate permitted marking.

#### 11. The marking of the component shall include:

Certificate number FM22US0011U Zn 1, AEx db eb IIB (or IIC) Gb CI I, Div 2, Grps CD (or ABCD) Manufacturer's name and address Type number Date Code Electrical ratings

#### 12. Description of Component:

The Explosion-protected Series 8550/1-MCCB is a main and branch circuit protective device for circuits feeding either resistive or inductive loads like lighting, motors, transformers, cables and other loads with high inrush current and is available with rated voltages of 600Y/347 VAC, 480 VAC, 480Y/277 VAC, or 250 VDC, depending on the specific insert.

The Explosion-protected Series 8550/1-CT is a contactor with rated voltages of 600 VAC, 480 VAC, or 250 VDC, depending on the specific insert These devices do not include short circuit protection and must be further protected by Class J fuses rated not more than 200 A.

The Explosion-protected Series 8550/1-OL is an electronic motor overload relay rated up to 600 V AC and for currents up to 100 A.

Ordinary location molded case circuit breakers, contactors, or electronic overload devices, manufactured by Siemens or ABB, are built into flameproof enclosure with increased safety external terminals. The enclosure is certified as an Ex Component enclosure per IECEx FMG 20.0041U.

See Annex A for the Type Code details.

#### 13. Schedule of Limitations:

See Annex A for Schedule of Limitations for each Type Series.

#### 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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# **SCHEDULE**



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US Certificate of Conformity No: FM22US0011U

#### 16. Certificate History

Details of the supplements to this certificate are described below:

Date	Description	A	
15 <sup>th</sup> June 2022	Original Issue.		

# FM Approvals

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to US Certificate of Conformity No. FM22US0011U



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# 8550/1-MCCB—GLS3-TM-e-fgh. Explosion Protected Circuit Breaker. FM22US0011U

I / 1 / AEx db eb IIB (IIC) Gb; S / I / 2 / CD (ABCD) -25 °C  $\leq$  T<sub>s</sub>  $\leq$  +110 °C

- e = Nominal current; 15, 20, 25, 30, 35, 40, 45, 50, or 60.
- f = Auxiliary contacts; AS1, AS2, AS3, AS4, AS5, or AS6.
- g = Alarm contacts; FS1, FS2, or FS3.
- h = Undervoltage release or Shunt trip; U1S, U2S, U3S, U4S, U5S, U6S, U7S, U8S, U9S, S1S, S2S, S3S, S4S, S5S, S6S, S7S, S8S, S9S, S10S, S11S, or S12S.

#### Schedule of Limitations:

- 1. Rated 480 VAC, 600Y/347 VAC, and 250 VDC
- 2. The Series 8550/1-MCCB has a service temperature range of -25  $^{\circ}$ C  $\leq$  T<sub>s</sub>  $\leq$  +110  $^{\circ}$ C.
- 3. Field wiring conductors shall be rated not less than 75 °C.
- **4.** The flameproof enclosure cannot be repaired.
- **5.** The Series 8550/1-MCCB shall be protected from exposure to ultraviolet light.
- **6.** For Zone 1 locations, the Series 8550/1-MCCB shall be installed in an increased safety "eb" enclosure.
- 7. For Class I, Division 2 locations, the connections to the Series 8550/1-MCCB may be made in a general purpose enclosure using standard connection methods. Increased safety "eb" termination methods are permitted, but are not required.
- 8. In a 30 A application, the maximum rise of this MCCB enclosure is 7 K with a limiting temperature in the final application of 110 °C.
- **9.** In a 60 A application, the maximum rise of this MCCB enclosure is 19 K with a limiting temperature in the final application of 110 °C.
- 10. In a 30 A application, the maximum rise of this MCCB for the determination of temperature class is 24 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 105 °C for T4.
- 11. In a 60 A application, the maximum rise of this MCCB for the determination of temperature class is 55 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 105 °C for T4.
- **12.** The maximum available fault current shall not exceed 10 000 symmetrical amperes.

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# 8550/1-MCCB-GLS3-TM-e-fgh. Explosion Protected Circuit Breaker. FM22US0011U

I / 1 / AEx db eb IIB (IIC) Gb; S / I / 2 / CD (ABCD) -25 °C ≤ Ts ≤ +110 °C

- e = Nominal current; 70, 80, 90, or 100.
- f = Auxiliary contacts; AS1, AS2, AS3, AS4, AS5, or AS6.
- g = Alarm contacts; FS1, FS2, or FS3.
- h = Undervoltage release or Shunt trip; U1S, U2S, U3S, U4S, U5S, U6S, U7S, U8S, U9S, S1S, S2S, S3S, S4S, S5S, S6S, S7S, S8S, S9S, S10S, S11S, or S12S.

#### Schedule of Limitations:

- 1. Rated 480 VAC, 600Y/347 VAC, and 250 VDC
- 2. This Series 8550/1-MCCB has a service temperature range of -25 °C ≤ Ts ≤ +110 °C.
- Field wiring conductors shall be rated not less than 75 °C.
- **4.** The flameproof enclosure cannot be repaired.
- 5. This Series 8550/1-MCCB shall be protected from exposure to ultraviolet light.
- **6.** For Zone 1 applications, this Series 8550/1-MCCB shall be installed in an increased safety "eb" enclosure.
- 7. For Class I, Division 2 locations, the connections to the Series 8550/1-MCCB may be made in a general purpose enclosure using standard connection methods. Increased safety "eb" termination methods are permitted, but are not required.
- 8. In a 50 A application, the maximum rise of this MCCB enclosure is 7 K with a limiting temperature in the final application of 110 °C.
- 9. In a 100 A application, the maximum rise of this MCCB enclosure is 20 K with a limiting temperature in the final application of 110 °C.
- 10. In a 50 A application, the maximum rise of this MCCB for the determination of temperature class is 22 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 105 °C for T4.
- 11. In a 100 A application, the maximum rise of this MCCB for the determination of temperature class is 47 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 105 °C for T4.
- **12.** The maximum available fault current shall not exceed 10 000 symmetrical amperes.

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8550/1-MCCB-GLS3-TM-e-fgh. Explosion Protected Circuit Breaker. FM22US0011U

I/1 / AEx db eb IIB (IIC) Gb; S / I / 2 / CD (ABCD) -25 °C  $\leq$  Ts  $\leq$  +110 °C

- e = Nominal current; 110 or 125.
- f = Auxiliary contacts; AS1, AS2, AS3, AS4, AS5, or AS6.
- g = Alarm contacts; FS1, FS2, or FS3.
- Undervoltage release or Shunt trip; U1S, U2S, U3S, U4S, U5S, U6S, U7S, U8S, U9S, S1S, S2S, S3S, S4S, S5S, S6S, S7S, S8S, S9S, S10S, S11S, or S12S.

#### **Schedule of Limitations:**

- 1. Rated 600Y/347 VAC and 250 VDC
- **2.** This Series 8550/1-MCCB has a service temperature range of -25 °C ≤ Ts ≤ +110 °C.
- 3. Field wiring conductors shall be rated not less than 75 °C.
- 4. The flameproof enclosure cannot be repaired.
- **5.** This Series 8550/1-MCCB shall be protected from exposure to ultraviolet light.
- **6.** For Zone 1 applications, this Series 8550/1-MCCB shall be installed in an increased safety "eb" enclosure.
- **7.** For Class I, Division 2 locations, the connections to the Series 8550/1-MCCB may be made in a general purpose enclosure using standard connection methods. Increased safety "eb" termination methods are permitted, but are not required.
- **8.** In a 63 A application, the maximum rise of this MCCB enclosure is 9 K with a limiting temperature in the final application of 110 °C.
- **9.** In a 125 A application, the maximum rise of this MCCB enclosure is 24 K with a limiting temperature in the final application of 110 °C.
- 10. In a 63 A application, the maximum rise of this MCCB for the determination of temperature class is 28 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 105 °C for T4.
- **11.** In a 125 A application, the maximum rise of this MCCB for the determination of temperature class is 55 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 105 °C for T4.
- **12.** The maximum available fault current shall not exceed 10 000 symmetrical amperes.

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8550/1-MCCB—GLN3-TM-e-f00. Explosion Protected Circuit Breaker. FM22US0011U

I / 1 / AEx db eb IIB (IIC) Gb; S / I / 2 / CD (ABCD)  $-25 \text{ °C} \le T_s \le +110 \text{ °C}$ 

e = Nominal current; 15, 20, 25, 30, 35, 40, 45, 50, or 60.

f = Auxiliary contacts; AS7, or AS8.

#### Schedule of Limitations:

- Rated 480 VAC and 250 VDC
- **2.** The Series 8550/1-MCCB has a service temperature range of -25  $^{\circ}$ C  $\leq$  T<sub>s</sub>  $\leq$  +110  $^{\circ}$ C.
- 3. Field wiring conductors shall be rated not less than 75 °C.
- **4.** The flameproof enclosure cannot be repaired.
- **5.** The Series 8550/1-MCCB shall be protected from exposure to ultraviolet light.
- **6.** For Zone 1 locations, the Series 8550/1-MCCB shall be installed in an increased safety "eb" enclosure.
- **7.** For Class I, Division 2 locations, the connections to the Series 8550/1-MCCB may be made in a general purpose enclosure using standard connection methods. Increased safety "eb" termination methods are permitted, but are not required.
- **8.** In a 30 A application, the maximum rise of this MCCB enclosure is 6 K with a limiting temperature in the final application of 110 °C.
- **9.** In a 60 A application, the maximum rise of this MCCB enclosure is 12 K with a limiting temperature in the final application of 110 °C.
- **10.** In a 30 A application, the maximum rise of this MCCB for the determination of temperature class is 20 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 105 °C for T4.
- **11.** In a 60 A application, the maximum rise of this MCCB for the determination of temperature class is 35 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 105 °C for T4.
- **12.** The maximum available fault current shall not exceed 10 000 symmetrical amperes.

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8550/1-MCCB-GLN3-TM-e-f00. Explosion Protected Circuit Breaker.

FM22US0011U I / 1 / AEx db eb IIB (IIC) Gb; S / I / 2 / CD (ABCD) -25  $^{\circ}$ C  $\leq$  Ts  $\leq$  +110  $^{\circ}$ C

e = Nominal current; 70, 80, 90, or 100.

= Auxiliary contacts; AS7 or AS8.

#### Schedule of Limitations:

- 1. Rated 480 VAC and 250 VDC
- **2.** This Series 8550/1-MCCB has a service temperature range of -25 °C ≤ Ts ≤ +110 °C.
- 3. Field wiring conductors shall be rated not less than 75 °C.
- **4.** The flameproof enclosure cannot be repaired.
- **5.** This Series 8550/1-MCCB shall be protected from exposure to ultraviolet light.
- **6.** For Zone 1 locations, the Series 8550/1-MCCB shall be installed in an increased safety "eb" enclosure.
- 7. For Class I, Division 2 locations, the connections to the Series 8550/1-MCCB may be made in a general purpose enclosure using standard connection methods. Increased safety "eb" termination methods are permitted, but are not required.
- **8.** In a 50 A application, the maximum rise of this MCCB enclosure is 8 K with a limiting temperature in the final application of 110 °C.
- **9.** In a 100 A application, the maximum rise of this MCCB enclosure is 19 K with a limiting temperature in the final application of 110 °C.
- **10.** In a 50 A application, the maximum rise of this MCCB for the determination of temperature class is 28 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 105 °C for T4.
- **11.** In a 100 A application, the maximum rise of this MCCB for the determination of temperature class is 56 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 105 °C for T4.
- **12.** The maximum available fault current shall not exceed 10 000 symmetrical amperes.

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8550/1-MCCB-GLN3-TM-e-f00. Explosion Protected Circuit Breaker.

FM22US0011U

I/1/AEx db eb IIB (IIC) Gb; S/I/2/CD (ABCD) -25 °C  $\leq$  Ts  $\leq$  +110 °C

e = Nominal current; 110 or 125.

f = Auxiliary contacts; AS7 or AS8.

#### Schedule of Limitations:

- 1. Rated 480 VAC and 250 VDC
- **2.** This Series 8550/1-MCCB has a service temperature range of -25 °C ≤ Ts ≤ +110 °C.
- 3. Field wiring conductors shall be rated not less than 75 °C.
- **4.** The flameproof enclosure cannot be repaired.
- **5.** This Series 8550/1-MCCB shall be protected from exposure to ultraviolet light.
- **6.** For Zone 1 locations, the Series 8550/1-MCCB shall be installed in an increased safety "eb" enclosure.
- 7. For Class I, Division 2 locations, the connections to the Series 8550/1-MCCB may be made in a general purpose enclosure using standard connection methods. Increased safety "eb" termination methods are permitted, but are not required.
- **8.** In a 63 A application, the maximum rise of this MCCB enclosure is 9 K with a limiting temperature in the final application of 110 °C.
- **9.** In a 125 A application, the maximum rise of this MCCB enclosure is 21 K with a limiting temperature in the final application of 110 °C.
- **10.** In a 63 A application, the maximum rise of this MCCB for the determination of temperature class is 28 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 105 °C for T4.
- **11.** In a 125 A application, the maximum rise of this MCCB for the determination of temperature class is 64 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 105 °C for T4.
- **12.** The maximum available fault current shall not exceed 10 000 symmetrical amperes.

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## 8550/1-MCCB-NAA3-TM-e-fgh. Explosion Protected Circuit Breaker.

FM22US0011U I / 1 / AEx db eb IIB (IIC) Gb; S / I / 2 / CD (ABCD)

-25 °C ≤ Ts ≤ +110 °C

- Nominal current; 15, 20, 25, 30, 35, 40, 45, 50, or 60.
- = Auxiliary contacts; AA1 or AA2.
- = Alarm contacts; FA1 or FA2.
- Undervoltage release or Shunt trip; U1A, U2A, U3A, S1A, S2A, or S3A

#### Schedule of Limitations:

- Rated 480Y/277 VAC and 250 VDC
- 2. This Series 8550/1-MCCB has a service temperature range of -25 °C ≤ Ts ≤ +110 °C.
- 3. Field wiring conductors shall be rated not less than 75 °C.
- **4.** The flameproof enclosure cannot be repaired.
- 5. This Series 8550/1-MCCB shall be protected from exposure to ultraviolet light.
- 6. For Zone 1 locations, the Series 8550/1-MCCB shall be installed in an increased safety "eb" enclosure.
- 7. For Class I, Division 2 locations, the connections to the Series 8550/1-MCCB may be made in a general purpose enclosure using standard connection methods. Increased safety "eb" termination methods are permitted, but are not required.
- 8. In a 24 A application, the maximum rise of this MCCB enclosure is 4 K with a limiting temperature in the final application of 110 °C.
- 9. In a 48 A application, the maximum rise of this MCCB enclosure is 6 K with a limiting temperature in the final application of 110 °C.
- 10. In a 24 A application, the maximum rise of this MCCB for the determination of temperature class is 17 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 105 °C for T4.
- 11. In a 48 A application, the maximum rise of this MCCB for the determination of temperature class is 20 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 105 °C for T4.
- 12. The maximum available fault current shall not exceed 10 000 symmetrical amperes.

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### 8550/1-MCCB-NAA3-TM-e-fgh. Explosion Protected Circuit Breaker.

FM22US0011U

I/1 / AEx db eb IIB (IIC) Gb; S / I / 2 / CD (ABCD) -25 °C  $\leq$  Ts  $\leq$  +110 °C

- e = Nominal current; 70, 80, 90, or 100.
- f = Auxiliary contacts; AA1 or AA2.
- g = Alarm contacts; FA1 or FA2.
- h = Undervoltage release or Shunt trip; U1A, U2A, U3A, S1A, S2A, or S3A

#### Schedule of Limitations:

- Rated 480Y/277 VAC and 250 VDC
- **2.** This Series 8550/1-MCCB has a service temperature range of -25 °C ≤ Ts ≤ +110 °C.
- 3. Field wiring conductors shall be rated not less than 75 °C.
- **4.** The flameproof enclosure cannot be repaired.
- **5.** This Series 8550/1-MCCB shall be protected from exposure to ultraviolet light.
- **6.** For Zone 1 locations, the Series 8550/1-MCCB shall be installed in an increased safety "eb" enclosure.
- 7. For Class I, Division 2 locations, the connections to the Series 8550/1-MCCB may be made in a general purpose enclosure using standard connection methods. Increased safety "eb" termination methods are permitted, but are not required.
- **8.** In a 40 A application, the maximum rise of this MCCB enclosure is 5 K with a limiting temperature in the final application of 110 °C.
- **9.** In a 80 A application, the maximum rise of this MCCB enclosure is 12 K with a limiting temperature in the final application of 110 °C.
- **10.** In a 40 A application, the maximum rise of this MCCB for the determination of temperature class is 23 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 105 °C for T4.
- **11.** In a 80 A application, the maximum rise of this MCCB for the determination of temperature class is 58 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 105 °C for T4.
- **12.** The maximum available fault current shall not exceed 10 000 symmetrical amperes.

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8550/1-MCCB-NAA3-TM-e-fgh. Explosion Protected Circuit Breaker.

FM22US0011U

I/1/AEx db eb IIB (IIC) Gb; S/I/2/CD (ABCD)

-25 °C ≤ Ts ≤ +110 °C

e = Nominal current; 110 or 125.

f = Auxiliary contacts; AA1 or AA2.

g = Alarm contacts; FA1 or FA2.

h = Undervoltage release or Shunt trip; U1A, U2A, U3A, S1A, S2A, or S3A

#### Schedule of Limitations:

- 1. Rated 480Y/277 VAC and 250 VDC
- **2.** This Series 8550/1-MCCB has a service temperature range of -25  $^{\circ}$ C  $\leq$  Ts  $\leq$  +110  $^{\circ}$ C.
- 3. Field wiring conductors shall be rated not less than 75 °C.
- **4.** The flameproof enclosure cannot be repaired.
- 5. This Series 8550/1-MCCB shall be protected from exposure to ultraviolet light.
- **6.** For Zone 1 locations, the Series 8550/1-MCCB shall be installed in an increased safety "eb" enclosure.
- 7. For Class I, Division 2 locations, the connections to the Series 8550/1-MCCB may be made in a general purpose enclosure using standard connection methods. Increased safety "eb" termination methods are permitted, but are not required.
- **8.** In a 50 A application, the maximum rise of this MCCB enclosure is 8 K with a limiting temperature in the final application of 110 °C.
- **9.** In a 100 A application, the maximum rise of this MCCB enclosure is 19 K with a limiting temperature in the final application of 110 °C.
- **10.** In a 50 A application, the maximum rise of this MCCB for the determination of temperature class is 28 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 105 °C for T4.
- **11.** In a 100 A application, the maximum rise of this MCCB for the determination of temperature class is 58 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 105 °C for T4.
- **12.** The maximum available fault current shall not exceed 10 000 symmetrical amperes.

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8550/1-OL-GLA3-d-96-11. Explosion Protected Overload.

FM22US0011U

I / 1 / AEx db eb IIB (IIC) Gb; S / I / 2 / CD (ABCD)

-25 °C ≤ Ts ≤ +110 °C

d = Trip class; E5, E10, E20, or E30.

#### Schedule of Limitations:

- 1. Rated 600 VAC
- 2. This Series 8550/1-OL has a service temperature range of -25 °C ≤ Ts ≤ +110 °C.
- 3. Field wiring conductors shall be rated not less than 75 °C.
- 4. The flameproof enclosure cannot be repaired.
- **5.** The Series 8550/1-OL shall be protected from exposure to ultraviolet light.
- **6.** For Zone 1 locations, the Series 8550/1-OL shall be installed in an increased safety "eb" enclosure.
- 7. For Class I, Division 2 locations, the connections to the Series 8550/1-OL may be made in a general purpose enclosure using standard connection methods. Increased safety "eb" termination methods are permitted, but are not required.
- **8.** In a 50 A application, the maximum rise of this OL enclosure is 5 K with a limiting temperature in the final application of 110 °C.
- **9.** In a 100 A application, the maximum rise of this OL enclosure is 11 K with a limiting temperature in the final application of 110 °C.
- **10.** In a 50 A application, the maximum rise of this OL for the determination of temperature class is 19 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 105 °C for T4.
- **11.**In a 100 A application, the maximum rise of this OL for the determination of temperature class is 32 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 105 °C for T4.
- 12. The maximum available fault current shall not exceed 10 000 symmetrical amperes.

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to US Certificate of Conformity No. FM19US0151U



Member of the FM Global Group

8550/1-OL-GLS3-d-80-11. Explosion Protected Overload.

FM22US0011U

I / 1 / AEx db eb IIB (IIC) Gb; S / I / 2 / CD (ABCD)

-25 °C ≤ Ts ≤ +110 °C

d = Trip class; E5, E10, E20, or E30.

#### Schedule of Limitations:

- 1. Rated 600 VAC
- 2. This Series 8550/1-OL has a service temperature range of -25 °C ≤ Ts ≤ +110 °C.
- 3. Field wiring conductors shall be rated not less than 75 °C.
- 4. The flameproof enclosure cannot be repaired.
- **5.** The Series 8550/1-OL shall be protected from exposure to ultraviolet light.
- **6.** For Zone 1 locations, the Series 8550/1-OL shall be installed in an increased safety "eb" enclosure.
- **7.** For Class I, Division 2 locations, the connections to the Series 8550/1-OL may be made in a general purpose enclosure using standard connection methods. Increased safety "eb" termination methods are permitted, but are not required.
- **8.** In a 40 A application, the maximum rise of this OL enclosure is 5 K with a limiting temperature in the final application of 110 °C.
- **9.** In a 80 A application, the maximum rise of this OL enclosure is 9 K with a limiting temperature in the final application of 110 °C.
- **10.** In a 40 A application, the maximum rise of this OL for the determination of temperature class is 17 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 105 °C for T4.
- **11.** In a 80 A application, the maximum rise of this OL for the determination of temperature class is 26 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5. or 105 °C for T4.
- 12. The maximum available fault current shall not exceed 10 000 symmetrical amperes.

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#### 8550/1-CT-GLA3-d-e-f-22. Explosion Protected Contactor.

FM22US0011U

I / 1 / AEx db eb IIB (IIC) Gb; S / I / 2 / CD (ABCD)

-25 °C ≤ Ts ≤ +110 °C

d = Rated current; 80 or 96.

e = Max wire size; 10, 25, or 95.

f = Coil voltage; U1A, U2A, U3A, or U4A

#### Schedule of Limitations:

- 1. Rated 480 VAC and 250 VDC
- 2. This Series 8550/1-CT has a service temperature range of -25  $^{\circ}$ C  $\leq$  Ts  $\leq$  +110  $^{\circ}$ C.
- 3. Field wiring conductors shall be rated not less than 75 °C.
- **4.** The flameproof enclosure cannot be repaired.
- **5.** The Series 8550/1-CT shall be protected from exposure to ultraviolet light.
- **6.** For Zone 1 locations, the Series 8550/1-CT shall be installed in an increased safety "eb" enclosure.
- 7. For Class I, Division 2 locations, the connections to the Series 8550/1-CT may be made in a general purpose enclosure using standard connection methods. Increased safety "eb" termination methods are permitted, but are not required.
- 8. In a 50 A application, the maximum rise of this CT enclosure is 9 K with a limiting temperature in the final application of 110 °C.
- **9.** In a 100 A application, the maximum rise of this CT enclosure is 15K with a limiting temperature in the final application of 110 °C.
- 10. In a 50 A application, the maximum rise of this CT for the determination of temperature class is 34 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 105 °C for T4.
- 11. In a 100 A application, the maximum rise of this CT for the determination of temperature class is 42 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 105 °C for T4.
- **12.** The maximum available fault current shall not exceed 10 000 symmetrical amperes.
- **13.** Short circuit protection shall be provided by Class J fuses rated not higher than 200 amps

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to US Certificate of Conformity No. FM19US0151U



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#### 8550/1-CT-GLS3-80-e-f-g. Explosion Protected Contactor.

FM22US0011U

I / 1 / AEx db eb IIB (IIC) Gb; S / I / 2 / CD (ABCD)

-25 °C ≤ Ts ≤ +110 °C

e = Max wire size; 10, 25, or 95

f = Coil voltage; U1S, U2S, or U3S.

g = Auxiliary contacts; 13 or 31.

#### Schedule of Limitations:

- 1. Rated 600 VAC and 250 VDC
- 2. This Series 8550/1-CT has a service temperature range of -25  $^{\circ}$ C  $\leq$  Ts  $\leq$  +110  $^{\circ}$ C.
- 3. Field wiring conductors shall be rated not less than 75 °C.
- **4.** The flameproof enclosure cannot be repaired.
- **5.** The Series 8550/1-CT shall be protected from exposure to ultraviolet light.
- **6.** For Zone 1 locations, the Series 8550/1-CT shall be installed in an increased safety "eb" enclosure.
- 7. For Class I, Division 2 locations, the connections to the Series 8550/1-CT may be made in a general purpose enclosure using standard connection methods. Increased safety "eb" termination methods are permitted, but are not required.
- 8. In a 40 A application, the maximum rise of this CT enclosure is 6 K with a limiting temperature in the final application of 110 °C.
- **9.** In an 80 A application, the maximum rise of this CT enclosure is 14 K with a limiting temperature in the final application of 110 °C.
- 10. In a 40 A application, the maximum rise of this CT for the determination of temperature class is 24 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 105 °C for T4.
- 11. In an 80 A application, the maximum rise of this CT for the determination of temperature class is 42 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 105 °C for T4.
- **12.** The maximum available fault current shall not exceed 10 000 symmetrical amperes.
- **13.** Short circuit protection shall be provided by Class J fuses rated not higher than 200 amp.

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