1. EU-TYPE EXAMINATION CERTIFICATE



2. Component intended for use in Potentially Explosive Atmospheres - Directive 2014/34/EU

3. EU-Type Examination Certificate No:

FM22ATEX0017U

4. Component:

(Type Reference and Name)

5. Name of Applicant:

6. Address of Applicant

Series 8550

Explosion-Protected Circuit Protection Devices

R. STAHL Schaltgeräte GmbH

Am Bahnhof 30, D-74638 Waldenburg (Württ.) Germany

- 7. This component and any acceptable variation thereto is specified in the schedule to this certificate and documents therein referred to.
- 8. FM Approvals Europe Ltd, notified body number 2809 in accordance with Article 17 of Directive 2014/34/EU of 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

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

PR458080 dated 15th June 2022

9. Compliance with the Essential Health and Safety Requirements, with the exception of those identified in item 15 of the schedule to this certificate, has been assessed by compliance with the following documents:

EN IEC 60079-0:2018, EN 60079-1:2014, EN IEC 60079-7:2015+A1:2018

- 10. 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.
- 11. This EU-Type Examination certificate relates only to the design, examination and tests of the specified component in accordance to the directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this component. These are not covered by this certificate.

Certificate issued by: Martin Crowe

July 14, 2023

Certification Manager, FM Approvals Europe Ltd.

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12. The marking of the component shall include:



II 2G Ex db eb IIC Gb or II 2G Ex db eb IIB Gb

13. 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 up to 690 VAC and 125 A.

The Explosion-protected Series 8550/1-CT is a contactor rated for motor loads at up to 690 V AC and 55 kw, and resistive loads at up to 415 V AC or 220 VDC and 105 A. These devices do not include short circuit protection and must be further protected by gG fuses, or circuit breakers as detailed in the Specific Conditions of Use.

The Explosion-protected Series 8530/1-OL is an electronic motor overload relay rated up to 690 V AC and for currents up to 100 A.

The Explosion-protected Molded Case Switch, Series 8550/1-MCS is rated up to 415 V AC and for currents up to 100 A. It contains only the short circuit interrupting parts without a thermal trip element.

To provide the completed Ex Component per FM22ATEX0017U, industrial molded case circuit breakers, contactors, electronic overload devices, or molded case switches, manufactured by Siemens or ABB, are built into an Ex Component flameproof enclosure with increased safety external terminals which is separately certified as an Ex Component enclosure per IECEx FMG 20.0041U.

See Annex for details on each type

14. Schedule of Limitations:

See Annex for Schedule of Limitations for each Type Series.

15. Essential Health and Safety Requirements:

The relevant EHSRs that have not been addressed by the standards listed in this certificate have been identified and assessed in the confidential report identified in item 8.

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16. Test and Assessment Procedure and Conditions:

This EU-Type Examination Certificate is the result of testing of a sample of the product submitted, in accordance with the provisions of the relevant specific standard(s), and assessment of supporting documentation. It does not imply an assessment of the whole production.

Whilst this certificate may be used in support of a manufacturer's claim for CE Marking, FM Approvals Europe Ltd accepts no responsibility for the compliance of the equipment against all applicable Directives in all applications.

This Certificate has been issued in accordance with FM Approvals Europe Ltd's ATEX Certification Scheme.

17. Schedule Drawings

A list of the significant parts of the technical documentation is annexed to this certificate and a copy has been kept by the Notified Body.

18. Certificate History

Details of the supplements to this certificate are described below:

| Date | Description |
|--------------|--|
| 20 June 2022 | Original Issue. |
| 14 July 2023 | Supplement 1: Report Reference: PR465029 dated 11 July 2023. Description of the Change(s): Add Molded Case Switch 8550/1-MCS Minor revisions to model code options |

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ANNEX

8550/1-MCCB-GLS3-TM-60

Description of Component:

8550/1-MCCB-GLS3-TM-e-f-g-h-i. Explosion Protected Circuit Breaker.

- e = Nominal current; 015, 020, 025, 030, 035, 040, 045, 050, or 060.
- f = Terminal size; 10, 25, or 95.
- g = Alarm or auxiliary contacts; 000, AS1, AS2, AS3, AS4, AS5, AS6, or FS3.
- h = Alarm or auxiliary contacts; 000, FS1, FS2, FS3, AS1, AS2, AS3, AS4, AS5, or AS6.
- i = Undervoltage release or Shunt trip; 000, U01S, U02S, U03S, U04S, U05S, U06S, U07S, U08S, U09S, S01S, S02S, S03S, S04S, S05S, S06S, S07S, S08S, S09S, S10S, S11S, or S12S.

Schedule of Limitations:

- 1. Rated 415 VAC, 690 VAC, and 250 VDC.
- 2. This Series 8550/1-MCCB has a service temperature range of -25 °C ≤ Ts ≤ +110 °C.
- 3. In a 30 A application, field wiring conductors shall be rated not less than 14 K above the surrounding air temperature.
- 4. In a 60 A application, field wiring conductors shall be rated not less than 45 K above the surrounding air temperature.
- 5. The flameproof enclosure cannot be repaired.
- 6. This Series 8550/1-MCCB shall be protected from exposure to ultraviolet light.
- 7. For EPL Gb applications, this Series 8550/1-MCCB shall be installed in an increased safety "eb" enclosure.
- 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 130 °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 130 °C for T4.
- 12. The maximum available fault current shall not exceed 10 000 symmetrical amperes at 415 VAC and 250 VDC
- 13. The maximum available fault current shall not exceed 5 000 symmetrical amperes at 690 VAC.

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8550/1-MCCB-GLS3-TM-100

Description of Component:

8550/1-MCCB-GLS3-TM-e-f-g-h-i. Explosion Protected Circuit Breaker.

- e = Nominal current; 070, 080, 090, or 100.
- f = Terminal size; 10, 25, or 95.
- g = Alarm or auxiliary contacts; 000, AS1, AS2, AS3, AS4, AS5, AS6, or FS3.
- h = Alarm or auxiliary contacts; 000, FS1, FS2, FS3, AS1, AS2, AS3, AS4, AS5, or AS6.
- i = Undervoltage release or Shunt trip; 000, U01S, U02S, U03S, U04S, U05S, U06S, U07S, U08S, U09S, S01S, S02S, S03S, S04S, S05S, S06S, S07S, S08S, S09S, S10S, S11S, or S12S.

Schedule of Limitations:

- 1. Rated 415 VAC, 690 VAC, and 250 VDC.
- 2. This Series 8550/1-MCCB has a service temperature range of -25 °C ≤ Ts ≤ +110 °C.
- 3. In a 50 A application, field wiring conductors shall be rated not less than 12 K above the surrounding air temperature.
- 4. In a 100 A application, field wiring conductors shall be rated not less than 41 K above the surrounding air temperature.
- 5. The flameproof enclosure cannot be repaired.
- 6. This Series 8550/1-MCCB shall be protected from exposure to ultraviolet light.
- 7. For EPL Gb applications, this Series 8550/1-MCCB shall be installed in an increased safety "eb" enclosure.
- 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 130 °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 130 °C for T4.
- 12. The maximum available fault current shall not exceed 10 000 symmetrical amperes at 415 VAC and 250 VDC
- 13. The maximum available fault current shall not exceed 5 000 symmetrical amperes at 690 VAC.

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8550/1-MCCB-GLS3-TM-125

Description of Component:

8550/1-MCCB-GLS3-TM-e-f-g-h-i. Explosion Protected Circuit Breaker.

- e = Nominal current: 110 or 125.
- f = Terminal size; 10, 25, or 95.
- g = Alarm or auxiliary contacts; 000, AS1, AS2, AS3, AS4, AS5, AS6, or FS3.
- h = Alarm or auxiliary contacts; 000, FS1, FS2, FS3, AS1, AS2, AS3, AS4, AS5, or AS6.
- i = Undervoltage release or Shunt trip; 000, U01S, U02S, U03S, U04S, U05S, U06S, U07S, U08S, U09S, S01S, S02S, S03S, S04S, S05S, S06S, S07S, S08S, S09S, S10S, S11S, or S12S.

Schedule of Limitations:

- 1. Rated 415Y/240 and 250 VDC.
- 2. This Series 8550/1-MCCB has a service temperature range of -25 °C ≤ Ts ≤ +110 °C.
- 3. In a 63 A application, field wiring conductors shall be rated not less than 18 K above the surrounding air temperature.
- 4. In a 125 A application, field wiring conductors shall be rated not less than 55 K above the surrounding air temperature.
- 5. The flameproof enclosure cannot be repaired.
- 6. This Series 8550/1-MCCB shall be protected from exposure to ultraviolet light.
- 7. For EPL Gb applications, this Series 8550/1-MCCB shall be installed in an increased safety "eb" enclosure.
- 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 130 °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 130 °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-60

Description of Component:

8550/1-MCCB-GLN3-TM-e-f-g-h-0000. Explosion Protected Circuit Breaker.

- e = Nominal current; 015, 020, 025, 030, 035, 040, 045, 050, or 060.
- f = Terminal size; 10, 25, or 95.
- g = Alarm or auxiliary contacts; 000 or AS7.
- h = Alarm or auxiliary contacts; 000 or AS7.

Schedule of Limitations:

- 1. Rated 415 VAC and 250 VDC.
- 2. The Series 8550/1-MCCB has a service temperature range of -25 °C ≤ Ts ≤ +110 °C.
- 3. In a 30 A application, field wiring conductors shall be rated not less than 10 K above the surrounding air temperature.
- 4. In a 60 A application, field wiring conductors shall be rated not less than 27 K above the surrounding air temperature.
- 5. The flameproof enclosure cannot be repaired.
- 6. The Series 8550/1-MCCB shall be protected from exposure to ultraviolet light.
- 7. For EPL Gb locations, the Series 8550/1-MCCB shall be installed in an increased safety "eb" enclosure.
- 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-100

Description of Component:

8550/1-MCCB-GLN3-TM-e-f-g-h-0000. Explosion Protected Circuit Breaker.

- e = Nominal current; 70, 80, 90, or 100.
- f = Terminal size; 10, 25, or 95.
- g = Alarm or auxiliary contacts; 000 or AS7.
- h = Alarm or auxiliary contacts; 000 or AS7.

Schedule of Limitations:

- 1. Rated 415 VAC and 250 VDC.
- 2. This Series 8550/1-MCCB has a service temperature range of -25 °C ≤ Ts ≤ +110 °C.
- 3. In a 50 A application, field wiring conductors shall be rated not less than 18 K above the surrounding air temperature.
- 4. In a 100 A application, field wiring conductors shall be rated not less than 47 K above the surrounding air temperature.
- 5. The flameproof enclosure cannot be repaired.
- 6. This Series 8550/1-MCCB shall be protected from exposure to ultraviolet light.
- 7. For EPL Gb applications, this Series 8550/1-MCCB shall be installed in an increased safety "eb" enclosure.
- 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-125

Description of Component:

8550/1-MCCB-GLN3-TM-e-f-g-h-0000. Explosion Protected Circuit Breaker.

e = Nominal current; 110 or 125.

f = Terminal size; 10, 25, or 95.

g = Alarm or auxiliary contacts; 000 or AS7.

h = Alarm or auxiliary contacts; 000 or AS7.

Schedule of Limitations:

- 1. Rated 415 VAC and 250 VDC.
- 2. This Series 8550/1-MCCB has a service temperature range of -25 °C ≤ Ts ≤ +110 °C.
- 3. In a 63 A application, field wiring conductors shall be rated not less than 18 K above the surrounding air temperature.
- 4. In a 125 A application, field wiring conductors shall be rated not less than 53 K above the surrounding air temperature.
- 5. The flameproof enclosure cannot be repaired.
- 6. This Series 8550/1-MCCB shall be protected from exposure to ultraviolet light.
- 7. For EPL Gb applications, this Series 8550/1-MCCB shall be installed in an increased safety "eb" enclosure.
- 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-STA3-TM-63

Description of Component:

8550/1-MCCB-STA3-TM-e-f-g-h-i. Explosion Protected Circuit Breaker.

- e = Nominal current; 032, 040, 050, or 063.
- f = Terminal size; 10, 25, or 95.
- g = Alarm or auxiliary contacts; 000, AA1 or AA2.
- h = Alarm or auxiliary contacts; 000, FA1, FA2, AA1, or AA2.
- i = Undervoltage release or Shunt trip; 0000, U01A, U02A, U03A, S01A, S02A, or S03A.

Schedule of Limitations:

- 1. Rated 415Y/240 VAC and 250 VDC.
- 2. This Series 8550/1-MCCB has a service temperature range of -25 °C ≤ Ts ≤ +110 °C.
- 3. In a 32 A application, field wiring conductors shall be rated not less than 12 K above the surrounding air temperature.
- 4. In a 63 A application, field wiring conductors shall be rated not less than 34 K above the surrounding air temperature.
- 5. The flameproof enclosure cannot be repaired.
- 6. This Series 8550/1-MCCB shall be protected from exposure to ultraviolet light.
- 7. For EPL Gb applications, this Series 8550/1-MCCB shall be installed in an increased safety "eb" enclosure.
- 8. In a 32 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 63 A application, the maximum rise of this MCCB enclosure is 13 K with a limiting temperature in the final application of 110 °C.
- 10. In a 32 A application, the maximum rise of this MCCB for the determination of temperature class is 16 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °C for T4.
- 11. In a 63 A application, the maximum rise of this MCCB for the determination of temperature class is 41 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °C for T4.
- 12. The maximum available fault current shall not exceed 10 000 symmetrical amperes.

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8550/1-MCCB-STA3-TM-100

Description of Component:

8550/1-MCCB-STA3-TM-e-f-g-h-i. Explosion Protected Circuit Breaker.

- e = Nominal current; 080, 090, or 100.
- f = Terminal size; 10, 25, or 95.
- g = Alarm or auxiliary contacts; 000, AA1 or AA2.
- h = Alarm or auxiliary contacts; 000, FA1, FA2, AA1, or AA2.
- i = Undervoltage release or Shunt trip; 0000, U01A, U02A, U03A, S01A, S02A, or S03A.

Schedule of Limitations:

- 1. Rated 415Y/240 VAC and 250 VDC.
- 2. This Series 8550/1-MCCB has a service temperature range of -25 °C ≤ Ts ≤ +110 °C.
- 3. In a 50 A application, field wiring conductors shall be rated not less than 24 K above the surrounding air temperature.
- 4. In a 100 A application, field wiring conductors shall be rated not less than 49 K above the surrounding air temperature.
- 5. The flameproof enclosure cannot be repaired.
- 6. This Series 8550/1-MCCB shall be protected from exposure to ultraviolet light.
- 7. For EPL Gb applications, this Series 8550/1-MCCB shall be installed in an increased safety "eb" enclosure.
- 8. In a 50 A application, the maximum rise of this MCCB enclosure is 11 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 34 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °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 130 °C for T4.
- 12. The maximum available fault current shall not exceed 10 000 symmetrical amperes.

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8550/1-MCCB-STA3-TM-125

Description of Component:

8550/1-MCCB-STA3-TM-125-f-g-h-i. Explosion Protected Circuit Breaker.

- f = Terminal size; 10, 25, or 95.
- g = Alarm or auxiliary contacts; 000, AA1 or AA2.
- h = Alarm or auxiliary contacts; 000, FA1, FA2, AA1, or AA2.
- i = Undervoltage release or Shunt trip; 0000, U01A, U02A, U03A, S01A, S02A, or S03A.

Schedule of Limitations:

- 1. Rated 415Y/240 VAC and VDC.
- 2. This Series 8550/1-MCCB has a service temperature range of -25 °C ≤ Ts ≤ +110 °C.
- 3. In a 63 A application, field wiring conductors shall be rated not less than 24 K above the surrounding air temperature.
- 4. In a 125 A application, field wiring conductors shall be rated not less than 63 K above the surrounding air temperature.
- 5. The flameproof enclosure cannot be repaired.
- 6. This Series 8550/1-MCCB shall be protected from exposure to ultraviolet light.
- 7. For EPL Gb applications, this Series 8550/1-MCCB shall be installed in an increased safety "eb" enclosure.
- 8. In a 63 A application, the maximum rise of this MCCB enclosure is 10 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 34 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °C for T4.
- 11. In a 125 A application, the maximum rise of this MCCB for the determination of temperature class is 75 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °C for T4.
- 12. The maximum available fault current shall not exceed 10 000 symmetrical amperes.

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8550/1-CT-GLA3

Description of Component:

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

d = Rated current; 80 or 96.

e = Terminal size; 10, 25, or 95

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

g = Auxiliary contacts; 13, 22, or 31.

Schedule of Limitations:

- 1. Rated 415 VAC and 220 VDC
- 2. This Series 8550/1-CT has a service temperature range of -25 °C ≤ Ts ≤ +110 °C.
- 3. In a 53 A application, field wiring conductors shall be rated not less than 16 K above the surrounding air temperature.
- 4. In a 105 A application, field wiring conductors shall be rated not less than 36 K above the surrounding air temperature.
- 5. The flameproof enclosure cannot be repaired.
- 6. The Series 8550/1-CT shall be protected from exposure to ultraviolet light.
- 7. For EPL Gb applications, the Series 8550/1-CT shall be installed in an increased safety "eb" enclosure.
- 8. In a 53 A application, the maximum rise of this CT enclosure is 8 K with a limiting temperature in the final application of 110 °C..
- 9. In a 105 A application, the maximum rise of this CT enclosure is 15 K with a limiting temperature in the final application of 110 °C.
- 10. In a 53 A application, the maximum rise of this CT 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 130 °C for T4.
- 11. In a 105 A application, the maximum rise of this CT for the determination of temperature class is 44 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °C for T4.
- 12. The maximum available fault current shall not exceed 10 000 symmetrical amperes.
- 13. Short circuit protection shall be provided by gG fuses rated not higher than 160 amps or a maximum 100 A 8550/1-MCCB in series with 400 A gG fuses.

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8550/1-CT-GLS3-80

Description of Component:

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

e = Terminal size; 10, 25, or 95 f = Coil voltage; U1S, U2S, or U3S. g = Auxiliary contacts; 13, 22, or 31.

Schedule of Limitations:

- 1. Rated 415 VAC and 220 VDC.
- 2. This Series 8550/1-CT has a service temperature range of -25 °C ≤ Ts ≤ +110 °C.
- 3. In a 40 A application, field wiring conductors shall be rated not less than 17 K above the surrounding air temperature.
- 4. In a 80 A application, field wiring conductors shall be rated not less than 37 K above the surrounding air temperature.
- 5. The flameproof enclosure cannot be repaired.
- 6. The Series 8550/1-CT shall be protected from exposure to ultraviolet light.
- 7. For EPL Gb applications, the Series 8550/1-CT shall be installed in an increased safety "eb" enclosure.
- 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 a 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 130 °C for T4.
- 11. In a 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 130 °C for T4.
- 12. The maximum available fault current shall not exceed 10 000 symmetrical amperes.
- 13. Short circuit protection shall be provided by gG fuses rated not higher than 160 amps or a 8550/1-MCCB rated not higher than 125 A.

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8550/1-OL-GLA3

Description of Component:

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

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

Schedule of Limitations:

- 1. Rated 690 VAC.
- 2. This Series 8550/1-OL has a service temperature range of -25 °C ≤ Ts ≤ +110 °C.
- 3. In a 50 A application, field wiring conductors shall be rated not less than 9 K above the surrounding air temperature.
- 4. In a 100 A application, field wiring conductors shall be rated not less than 27 K above the surrounding air temperature.
- 5. The flameproof enclosure cannot be repaired.
- 6. The Series 8550/1-OL shall be protected from exposure to ultraviolet light.
- 7. For EPL Gb applications, the Series 8550/1-OL shall be installed in an increased safety "eb" enclosure.
- 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 130 °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 130 °C for T4.
- 12. The maximum available fault current shall not exceed 10 000 symmetrical amperes.

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8550/1-OL-GLS3

Description of Component:

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

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

Schedule of Limitations:

- 1. Rated 690 VAC.
- 2. This Series 8550/1-OL has a service temperature range of -25 °C ≤ Ts ≤ +110 °C.
- 3. In a 40 A application, field wiring conductors shall be rated not less than 7K above the surrounding air temperature.
- 4. In a 80 A application, field wiring conductors shall be rated not less than 22 K above the surrounding air temperature.
- 5. The flameproof enclosure cannot be repaired.
- 6. The Series 8550/1-OL shall be protected from exposure to ultraviolet light.
- 7. For EPL Gb applications, the Series 8550/1-OL shall be installed in an increased safety "eb" enclosure.
- 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 130 °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 130 °C for T4.
- 12. The maximum available fault current shall not exceed 10 000 symmetrical amperes.

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8550/1-MCS-GLS3-MO

Description of Component:

8550/1-MCS-GLS3-MO-100-f-g-h-i. Explosion Protected Molded Case Switch.

- e = Nominal current; 070, 080, 090, or 100.
- f = Terminal size; 10, 25, or 95.
- g = Alarm or auxiliary contacts; 000, AS1, AS2, AS3, AS4, AS5, AS6, or FS3.
- h = Alarm or auxiliary contacts; 000, FS1, FS2, FS3, AS1, AS2, AS3, AS4, AS5, or AS6.
- i = Auxiliary function; 000, U015, U025, U035, U045, U055, U065, U075, U085, U095, S105, S115, or S125.

Schedule of Limitations:

- 1. Rated 415 VAC.
- 2. This Series 8550/1-MCS has a service temperature range of -25 °C \leq T_s \leq +110 °C.
- 3. In a 50 A application, field wiring conductors shall be rated not less than 13 K above the surrounding air temperature.
- 4. In a 100 A application, field wiring conductors shall be rated not less than 52 K above the surrounding air temperature.
- 5. The flameproof enclosure cannot be repaired.
- 6. This Series 8550/1-MCS shall be protected from exposure to ultraviolet light.
- 7. For EPL Gb applications, this Series 8550/1-MCS shall be installed in an increased safety "eb" enclosure.
- 8. In a 50 A application, the maximum rise of this MCS enclosure is 6 K with a limiting temperature in the final application of 110 °C.
- 9. In a 100 A application, the maximum rise of this MCS 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 MCS for the determination of temperature class is 16 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °C for T4.
- 11. In a 100 A application, the maximum rise of this MCS for the determination of temperature class is 57 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °C for T4.
- 12. The maximum available fault current shall not exceed 10 000 symmetrical amperes at 415 VAC

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Blueprint Report

R STAHL SCHALTGERAETE GmbH (1000000917)

Class No IEC

Original Project I.D. 458076 Certificate I.D. FM22ATEX0017U

| Drawing No. | Revision Level | Drawing Title | Last Report | Electronic Drawing |
|------------------|----------------|--------------------------------------|-------------|--------------------|
| 8550 0 000 001 0 | 02 | Series 8550, MCCB 3-Pole | PR465029 | Yes (pdf) |
| 8550 0 000 003 0 | 00 | Series 8550 Enclosure Description | PR458080 | Yes (msw8) |
| 8550 0 000 004 0 | 01 | Series 8550 Description | PR465029 | Yes (pdf) |
| 8550 0 000 007 0 | 00 | Series 8550, Overload, 3-Pole | PR458080 | Yes (pdf) |
| 8550 0 000 008 0 | 00 | Series 8550, Contactor, 3-Pole | PR458080 | Yes (pdf) |
| 8550 0 000 009 0 | 01 | Series 8550 IOM Required Information | PR465029 | Yes (pdf) |
| 8550 0 000 015 0 | 01 | Series 8550 Label Details | PR465029 | Yes (pdf) |
| 8550 6 086 001 0 | 00 | Series 8550 Testing Procedure | PR458080 | Yes (msw15) |

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