

1 EU-TYPE EXAMINATION CERTIFICATE



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

3 EU-Type Examination Certificate No: FM19ATEX0191U

4 Component: Series 8530
(Type Reference and Name) Explosion-Protected Circuit Protection Devices:
MCBs, RCCBs, and RCBOs

5 Name of Applicant: R. STAHL Schaltgeräte GmbH

6 Address of Applicant: Am Bahnhof 30
74638 Waldenburg
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 26th February, 2014, certifies that this component 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:

PR451407 dated 15th January 2020

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 and EN 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.

12 The marking of the component shall include:



II 2G Ex db eb IIC Gb

Martin Crowe
Certification Manager, FM Approvals Europe Ltd.

Issue date: 14 December 2023

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F ATEX 027 (Dec/2020)



SCHEDULE

to EU-Type Examination Certificate No. FM19ATEX0191U

13 Description of Component:

The Series 8530 is a series of explosion-protected circuit protection devices. These devices can be Explosion protected Miniature Circuit Breakers (MCB), which are branch circuit protective devices for circuits feeding either resistive or inductive loads like lighting, motors, transformers, cables and other loads with high inrush current for use in hazardous (classified) locations. The series 8530 is also used as an earth fault interrupting device, such as Explosion Protected Residual Current Circuit Breakers (RCCB). The RCCB, while often referred to as a Circuit Breaker, does not incorporate an overcurrent feature. The version of the ground fault interrupting device with an overcurrent protection is the Explosion Protected Residual Current Breaker with Overload (RCBO).

See Annex A for electrical ratings of each type.

See Annex A for the Type Code details.

See Annex A for the functional temperature range of the circuit protection devices. The explosion protection of the Ex Component enclosures has been evaluated for $-60\text{ °C} \leq T_s \leq +110\text{ °C}$.

14 Schedule of Limitations:

See Annex A 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.

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, FM Approvals Europe Ltd accepts no responsibility for the compliance of the component 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
17 th January 2020	Original Issue.

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SCHEDULE



to EU-Type Examination Certificate No. FM19ATEX0191U

07 th February 2023	Supplement 01: PR457018 dated 26 th January 2023. Description of the Changes: <ul style="list-style-type: none">• Addition of 2-Pole and 4-Pole models• Additional 3-Pole models
14 December 2023	Supplement 02: PR462463 dated 26 November 2023. Description of the Changes: <ul style="list-style-type: none">• Addition of 1-Pole models• Additional 1-Pole models (2-Poles in Series) for 440 VDC

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ANNEX A
to EU-Type Examination Certificate No. FM19ATEX0191U

8530/1 MCB

8530/1-MCB-STAb1-de-000-1. Explosion Protected Circuit Breaker.

FM19ATEX0191U

Ex db eb IIC Gb

Ts = -40 °C to +70 °C

- b = Short-circuit rating 06 or 10
- d = Tripping characteristic B, C, D, K, or Z.
- e = Nominal current 0.5, 1, 1.6, 2, 3, 4, 5, 6, 8, 10, 13, 15, 16, 20, 25, 30, 32, or 40.

Schedule of Limitations:

1. Rated 230 VAC.
2. In a 20 A application, field wiring conductors shall be rated not less than 11 K above the surrounding air temperature.
3. In a 40 A application, field wiring conductors shall be rated not less than 34 K above the surrounding air temperature.
4. The flameproof enclosure cannot be repaired.
5. The Series 8530/1-MCB shall be protected from exposure to ultraviolet light.
6. For EPL Gb applications, the Series 8530/1-MCB shall be installed in an increased safety "eb" enclosure.
7. In a 20 A application, the maximum rise of this MCB enclosure is 7 K with a limiting temperature in the final application of 110 °C.
8. In a 40 A application, the maximum rise of this MCB enclosure is 20 K with a limiting temperature in the final application of 110 °C.
9. In a 20 A application, the maximum rise of this MCB for the determination of temperature class is 13 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °C for T4.
10. In a 40 A application, the maximum rise of this MCB 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.
11. For b = 06, the maximum available fault current shall not exceed 6 000 symmetrical amperes.
12. For b = 10, the maximum available fault current shall not exceed 10 000 symmetrical amperes.

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ANNEX A
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8530/1-MCB-STAb1-de-000-1. Explosion Protected Circuit Breaker.

FM19ATEX0191U

Ex db eb IIC Gb

Ts = -40 °C to +70 °C

- b = Short-circuit rating 06 or 10
- d = Tripping characteristic B, C, D, K, or Z.
- e = Nominal current 50 or 63.

Schedule of Limitations:

1. Rated 230 VAC.
2. In a 31.5 A application, field wiring conductors shall be rated not less than 7 K above the surrounding air temperature.
3. In a 63 A application, field wiring conductors shall be rated not less than 35 K above the surrounding air temperature.
4. The flameproof enclosure cannot be repaired.
5. The Series 8530/1-MCB shall be protected from exposure to ultraviolet light.
6. For EPL Gb applications, the Series 8530/1-MCB shall be installed in an increased safety "eb" enclosure.
7. In a 31.5 A application, the maximum rise of this MCB enclosure is 7 K with a limiting temperature in the final application of 110 °C.
8. In a 63 A application, the maximum rise of this MCB enclosure is 20 K with a limiting temperature in the final application of 110 °C.
9. In a 31.5 A application, the maximum rise of this MCB for the determination of temperature class is 13 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °C for T4.
10. In a 63 A application, the maximum rise of this MCB 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.
11. For b = 06, the maximum available fault current shall not exceed 6 000 symmetrical amperes.
12. For b = 10, the maximum available fault current shall not exceed 10 000 symmetrical amperes.

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ANNEX A
to EU-Type Examination Certificate No. FM19ATEX0191U

8530/1-MCB-STA151-de-000-1. Explosion Protected Circuit Breaker.

FM19ATEX0191U

Ex db eb IIC Gb

Ts = -40 °C to +70 °C

d = Tripping characteristic B, C, D, K, or Z.

e = Nominal current 0.5, 1, 1.6, 2, 3, 4, 5, 6, 8, 10, 13, 15, 16, 20, or 25, 30, 32, or 40.

Schedule of Limitations:

1. Rated 230 VAC.
2. In a 20 A application, field wiring conductors shall be rated not less than 8 K above the surrounding air temperature.
3. In a 40 A application, field wiring conductors shall be rated not less than 20 K above the surrounding air temperature.
4. The flameproof enclosure cannot be repaired.
5. The Series 8530/1-MCB shall be protected from exposure to ultraviolet light.
6. For EPL Gb applications, the Series 8530/1-MCB shall be installed in an increased safety "eb" enclosure.
7. In a 20 A application, the maximum rise of this MCB enclosure is 6 K with a limiting temperature in the final application of 110 °C.
8. In a 40 A application, the maximum rise of this MCB enclosure is 12 K with a limiting temperature in the final application of 110 °C.
9. In a 20 A application, the maximum rise of this MCB for the determination of temperature class is 9 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °C for T4.
10. In a 40 A application, the maximum rise of this MCB 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. The maximum available fault current shall not exceed 15 000 symmetrical amperes.

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ANNEX A
to EU-Type Examination Certificate No. FM19ATEX0191U

8530/1-MCB-STAb1N-de-fg-h. Explosion Protected Circuit Breaker.

FM19ATEX0191U

II 2G Ex db eb IIC Gb

Ts = -40 °C to +70 °C

- b = Short-circuit rating 06 or 10
- d = Tripping characteristic B, C, D, or K.
- e = Nominal current 0.5, 1, 1.6, 2, 3, 4, 5, 6, 8, 10, 13, 15, 16, or 20.
- f = Accessories 0, 1, 2, 3, 4, 5, or 6.
- g = Accessories 00, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 40, 41, 42, 43, 44, 45, 46, or 50.
- h = Housing size 2, 3 or 4.

Schedule of Limitations:

- 13. Rated 230 VAC.
- 14. In a 10 A application, field wiring conductors shall be rated not less than 7 K above the surrounding air temperature.
- 15. In a 20 A application, field wiring conductors shall be rated not less than 24 K above the surrounding air temperature.
- 16. The flameproof enclosure cannot be repaired.
- 17. The Series 8530/1-MCB shall be protected from exposure to ultraviolet light.
- 18. For EPL Gb applications, the Series 8530/1-MCB shall be installed in an increased safety "eb" enclosure.
- 19. In a 10 A application, the maximum rise of this MCB enclosure is 6 K with a limiting temperature in the final application of 110 °C.
- 20. In a 20 A application, the maximum rise of this MCB enclosure is 13 K with a limiting temperature in the final application of 110 °C.
- 21. In a 10 A application, the maximum rise of this MCB 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.
- 22. In a 20 A application, the maximum rise of this MCB 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.
- 23. For b = 06, the maximum available fault current shall not exceed 6 000 symmetrical amperes.
- 24. For b = 10, the maximum available fault current shall not exceed 10 000 symmetrical amperes.

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ANNEX A
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8530/1-MCB-STAb1N-de-fg-h. Explosion Protected Circuit Breaker.

FM19ATEX0191U

II 2G Ex db eb IIC Gb

Ts = -40 °C to +70 °C

- b = Short-circuit rating 06 or 10
- d = Tripping characteristic Z.
- e = Nominal current 0.5, 1, 1.6, 2, 3, 4, 5, 6, 8, 10, 13, 15, 16, or 20.
- f = Accessories 0, 1, 2, 3, 4, 5, or 6.
- g = Accessories 00, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 40, 41, 42, 43, 44, 45, 46, or 50.
- h = Housing size 2, 3 or 4.

Schedule of Limitations:

1. Rated 230 VAC.
2. In a 10 A application, field wiring conductors shall be rated not less than 6 K above the surrounding air temperature.
3. In a 20 A application, field wiring conductors shall be rated not less than 17 K above the surrounding air temperature.
4. The flameproof enclosure cannot be repaired.
5. The Series 8530/1-MCB shall be protected from exposure to ultraviolet light.
6. For EPL Gb applications, the Series 8530/1-MCB shall be installed in an increased safety "eb" enclosure.
7. In a 10 A application, the maximum rise of this MCB enclosure is 5 K with a limiting temperature in the final application of 110 °C.
8. In a 20 A application, the maximum rise of this MCB enclosure is 10 K with a limiting temperature in the final application of 110 °C.
9. In a 10 A application, the maximum rise of this MCB for the determination of temperature class is 11 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °C for T4.
10. In a 20 A application, the maximum rise of this MCB for the determination of temperature class is 21 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °C for T4.
11. For b = 06, the maximum available fault current shall not exceed 6 000 symmetrical amperes.
12. For b = 10, the maximum available fault current shall not exceed 10 000 symmetrical amperes.

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II 2G Ex db eb IIC Gb

Ts = -40 °C to +70 °C

- b = Short-circuit rating 06 or 10
- d = Tripping characteristic B, C, D, or K.
- e = Nominal current 25, 30, 32, 35, or 40.
- f = Accessories 0, 1, 2, 3, 4, 5, or 6.
- g = Accessories 00, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 40, 41, 42, 43, 44, 45, 46, or 50.
- h = Housing size 2, 3, or 4.

Schedule of Limitations:

1. Rated 230 VAC.
2. In a 20 A application, field wiring conductors shall be rated not less than 12 K above the surrounding air temperature.
3. In a 40 A application, field wiring conductors shall be rated not less than 40 K above the surrounding air temperature.
4. The flameproof enclosure cannot be repaired.
5. The Series 8530/1-MCB shall be protected from exposure to ultraviolet light.
6. For EPL Gb applications, the Series 8530/1-MCB shall be installed in an increased safety "eb" enclosure.
7. In a 20 A application, the maximum rise of this MCB enclosure is 10 K with a limiting temperature in the final application of 110 °C.
8. In a 40 A application, the maximum rise of this MCB enclosure is 28 K with a limiting temperature in the final application of 110 °C.
9. In a 20 A application, the maximum rise of this MCB for the determination of temperature class is 38 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °C for T4.
10. In a 40 A application, the maximum rise of this MCB for the determination of temperature class is 48 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °C for T4.
11. For b = 06, the maximum available fault current shall not exceed 6 000 symmetrical amperes.
12. For b = 10, the maximum available fault current shall not exceed 10 000 symmetrical amperes.

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8530/1-MCB-STAb1N-de-fg-h. Explosion Protected Circuit Breaker.

FM19ATEX0191U

II 2G Ex db eb IIC Gb

Ts = -40 °C to +70 °C

- b = Short-circuit rating 06 or 10
- d = Tripping characteristic Z.
- e = Nominal current 25, 30, 32, 35, or 40.
- f = Accessories 0, 1, 2, 3, 4, 5, or 6.
- g = Accessories 00, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 40, 41, 42, 43, 44, 45, 46, or 50.
- h = Housing size 2, 3, or 4.

Schedule of Limitations:

1. Rated 230 VAC.
2. In a 20 A application, field wiring conductors shall be rated not less than 8 K above the surrounding air temperature.
3. In a 40 A application, field wiring conductors shall be rated not less than 27 K above the surrounding air temperature.
4. The flameproof enclosure cannot be repaired.
5. The Series 8530/1-MCB shall be protected from exposure to ultraviolet light.
6. For EPL Gb applications, the Series 8530/1-MCB shall be installed in an increased safety "eb" enclosure.
7. In a 20 A application, the maximum rise of this MCB enclosure is 6 K with a limiting temperature in the final application of 110 °C.
8. In a 40 A application, the maximum rise of this MCB enclosure is 17 K with a limiting temperature in the final application of 110 °C.
9. In a 20 A application, the maximum rise of this MCB for the determination of temperature class is 18 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °C for T4.
10. In a 40 A application, the maximum rise of this MCB 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. For b = 06, the maximum available fault current shall not exceed 6 000 symmetrical amperes.
12. For b = 10, the maximum available fault current shall not exceed 10 000 symmetrical amperes.

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ANNEX A
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8530/1-MCB-STAb1N-de-fg-h. Explosion Protected Circuit Breaker.

FM19ATEX0191U

II 2G Ex db eb IIC Gb

Ts = -40 °C to +70 °C

- b = Short-circuit rating 06 or 10
- d = Tripping characteristic B, C, or D.
- e = Nominal current 50 or 63.
- f = Accessories 0, 1, 2, 3, 4, 5, or 6.
- g = Accessories 00, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 40, 41, 42, 43, 44, 45, 46, or 50.
- h = Housing size 2, 3 or 4.

Schedule of Limitations:

1. Rated 230 VAC.
2. In a 31.5 A application, field wiring conductors shall be rated not less than 12 K above the surrounding air temperature.
3. In a 63 A application, field wiring conductors shall be rated not less than 40 K above the surrounding air temperature.
4. The flameproof enclosure cannot be repaired.
5. The Series 8530/1-MCB shall be protected from exposure to ultraviolet light.
6. For EPL Gb applications, the Series 8530/1-MCB shall be installed in an increased safety "eb" enclosure.
7. In a 31.5 A application, the maximum rise of this MCB enclosure is 10 K with a limiting temperature in the final application of 110 °C.
8. In a 63 A application, the maximum rise of this MCB enclosure is 28 K with a limiting temperature in the final application of 110 °C.
9. In a 31.5 A application, the maximum rise of this MCB for the determination of temperature class is 38 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °C for T4.
10. In a 63 A application, the maximum rise of this MCB for the determination of temperature class is 48 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °C for T4.
11. For b = 06, the maximum available fault current shall not exceed 6 000 symmetrical amperes.
12. For b = 10, the maximum available fault current shall not exceed 10 000 symmetrical amperes.

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8530/1-MCB-STAb1N-de-fg-h. Explosion Protected Circuit Breaker.

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II 2G Ex db eb IIC Gb

Ts = -40 °C to +70 °C

- b = Short-circuit rating 06 or 10
- d = Tripping characteristic K or Z.
- e = Nominal current 50 or 63.
- f = Accessories 0, 1, 2, 3, 4, 5, or 6.
- g = Accessories 00, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 40, 41, 42, 43, 44, 45, 46, or 50.
- h = Housing size 2, 3 or 4.

Schedule of Limitations:

1. Rated 230 VAC.
2. In a 31.5 A application, field wiring conductors shall be rated not less than 11 K above the surrounding air temperature.
3. In a 63 A application, field wiring conductors shall be rated not less than 35 K above the surrounding air temperature.
4. The flameproof enclosure cannot be repaired.
5. The Series 8530/1-MCB shall be protected from exposure to ultraviolet light.
6. For EPL Gb applications, the Series 8530/1-MCB shall be installed in an increased safety "eb" enclosure.
7. In a 31.5 A application, the maximum rise of this MCB enclosure is 8 K with a limiting temperature in the final application of 110 °C.
8. In a 63 A application, the maximum rise of this MCB enclosure is 23 K with a limiting temperature in the final application of 110 °C.
9. In a 31.5 A application, the maximum rise of this MCB 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.
10. In a 63 A application, the maximum rise of this MCB for the determination of temperature class is 36 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °C for T4.
11. For b = 06, the maximum available fault current shall not exceed 6 000 symmetrical amperes.
12. For b = 10, the maximum available fault current shall not exceed 10 000 symmetrical amperes.

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ANNEX A
to EU-Type Examination Certificate No. FM19ATEX0191U

8530/1-MCB-STAb2-de-fg-h. Explosion Protected Circuit Breaker.

FM19ATEX0191U

II 2G Ex db eb IIC Gb

Ts = -40 °C to +70 °C

- b = Short-circuit rating 06 or 10
- d = Tripping characteristic B, C, D, or K.
- e = Nominal current 0.5, 1, 1.6, 2, 3, 4, 5, 6, 8, 10, 13, 15, 16, or 20.
- f = Accessories 0, 1, 2, 3, 4, 5, or 6.
- g = Accessories 00, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 40, 41, 42, 43, 44, 45, 46, or 50.
- h = Housing size 2, 3 or 4.

Schedule of Limitations:

1. Rated 400Y/230 VAC.
2. In a 10 A application, field wiring conductors shall be rated not less than 7 K above the surrounding air temperature.
3. In a 20 A application, field wiring conductors shall be rated not less than 21 K above the surrounding air temperature.
4. The flameproof enclosure cannot be repaired.
5. The Series 8530/1-MCB shall be protected from exposure to ultraviolet light.
6. For EPL Gb applications, the Series 8530/1-MCB shall be installed in an increased safety "eb" enclosure.
7. In a 10 A application, the maximum rise of this MCB enclosure is 6 K with a limiting temperature in the final application of 110 °C.
8. In a 20 A application, the maximum rise of this MCB enclosure is 13 K with a limiting temperature in the final application of 110 °C.
9. In a 10 A application, the maximum rise of this MCB 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.
10. In a 20 A application, the maximum rise of this MCB 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.
11. For b = 06, the maximum available fault current shall not exceed 6 000 symmetrical amperes.
12. For b = 10, the maximum available fault current shall not exceed 10 000 symmetrical amperes.

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ANNEX A
to EU-Type Examination Certificate No. FM19ATEX0191U

8530/1-MCB-STAb2-de-fg-h. Explosion Protected Circuit Breaker.

FM19ATEX0191U

II 2G Ex db eb IIC Gb

Ts = -40 °C to +70 °C

- b = Short-circuit rating 06 or 10
- d = Tripping characteristic Z.
- e = Nominal current 0.5, 1, 1.6, 2, 3, 4, 5, 6, 8, 10, 13, 15, 16, or 20.
- f = Accessories 0, 1, 2, 3, 4, 5, or 6.
- g = Accessories 00, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 40, 41, 42, 43, 44, 45, 46, or 50.
- h = Housing size 2, 3 or 4.

Schedule of Limitations:

1. Rated 400Y/230 VAC.
2. In a 10 A application, field wiring conductors shall be rated not less than 6 K above the surrounding air temperature.
3. In a 20 A application, field wiring conductors shall be rated not less than 17 K above the surrounding air temperature.
4. The flameproof enclosure cannot be repaired.
5. The Series 8530/1-MCB shall be protected from exposure to ultraviolet light.
6. For EPL Gb applications, the Series 8530/1-MCB shall be installed in an increased safety "eb" enclosure.
7. In a 10 A application, the maximum rise of this MCB enclosure is 5 K with a limiting temperature in the final application of 110 °C.
8. In a 20 A application, the maximum rise of this MCB enclosure is 10 K with a limiting temperature in the final application of 110 °C.
9. In a 10 A application, the maximum rise of this MCB for the determination of temperature class is 11 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °C for T4.
10. In a 20 A application, the maximum rise of this MCB for the determination of temperature class is 21 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °C for T4.
11. For b = 06, the maximum available fault current shall not exceed 6 000 symmetrical amperes.
12. For b = 10, the maximum available fault current shall not exceed 10 000 symmetrical amperes.

THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE

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ANNEX A
to EU-Type Examination Certificate No. FM19ATEX0191U

8530/1-MCB-STAb2-de-fg-h. Explosion Protected Circuit Breaker.

FM19ATEX0191U

II 2G Ex db eb IIC Gb

Ts = -40 °C to +70 °C

- b = Short-circuit rating 06 or 10
- d = Tripping characteristic B, C, D, or K.
- e = Nominal current 25, 30, 32, 35, or 40.
- f = Accessories 0, 1, 2, 3, 4, 5, or 6.
- g = Accessories 00, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 40, 41, 42, 43, 44, 45, 46, or 50.
- h = Housing size 2, 3, or 4.

Schedule of Limitations:

1. Rated 400Y/230 VAC.
2. In a 20 A application, field wiring conductors shall be rated not less than 12 K above the surrounding air temperature.
3. In a 40 A application, field wiring conductors shall be rated not less than 40 K above the surrounding air temperature.
4. The flameproof enclosure cannot be repaired.
5. The Series 8530/1-MCB shall be protected from exposure to ultraviolet light.
6. For EPL Gb applications, the Series 8530/1-MCB shall be installed in an increased safety "eb" enclosure.
7. In a 20 A application, the maximum rise of this MCB enclosure is 10 K with a limiting temperature in the final application of 110 °C.
8. In a 40 A application, the maximum rise of this MCB enclosure is 28 K with a limiting temperature in the final application of 110 °C.
9. In a 20 A application, the maximum rise of this MCB for the determination of temperature class is 38 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °C for T4.
10. In a 40 A application, the maximum rise of this MCB for the determination of temperature class is 48 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °C for T4.
11. For b = 06, the maximum available fault current shall not exceed 6 000 symmetrical amperes.
12. For b = 10, the maximum available fault current shall not exceed 10 000 symmetrical amperes.

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FM19ATEX0191U

II 2G Ex db eb IIC Gb

Ts = -40 °C to +70 °C

- b = Short-circuit rating 06 or 10
- d = Tripping characteristic Z.
- e = Nominal current 25, 30, 32, 35, or 40.
- f = Accessories 0, 1, 2, 3, 4, 5, or 6.
- g = Accessories 00, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 40, 41, 42, 43, 44, 45, 46, or 50.
- h = Housing size 2, 3, or 4.

Schedule of Limitations:

1. Rated 400Y/230 VAC.
2. In a 20 A application, field wiring conductors shall be rated not less than 8 K above the surrounding air temperature.
3. In a 40 A application, field wiring conductors shall be rated not less than 27 K above the surrounding air temperature.
4. The flameproof enclosure cannot be repaired.
5. The Series 8530/1-MCB shall be protected from exposure to ultraviolet light.
6. For EPL Gb applications, the Series 8530/1-MCB shall be installed in an increased safety "eb" enclosure.
7. In a 20 A application, the maximum rise of this MCB enclosure is 6 K with a limiting temperature in the final application of 110 °C.
8. In a 40 A application, the maximum rise of this MCB enclosure is 17 K with a limiting temperature in the final application of 110 °C.
9. In a 20 A application, the maximum rise of this MCB for the determination of temperature class is 18 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °C for T4.
10. In a 40 A application, the maximum rise of this MCB 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. For b = 06, the maximum available fault current shall not exceed 6 000 symmetrical amperes.
12. For b = 10, the maximum available fault current shall not exceed 10 000 symmetrical amperes.

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II 2G Ex db eb IIC Gb

Ts = -40 °C to +70 °C

- b = Short-circuit rating 06 or 10
- d = Tripping characteristic B, C, or D.
- e = Nominal current 50 or 63.
- f = Accessories 0, 1, 2, 3, 4, 5, or 6.
- g = Accessories 00, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 40, 41, 42, 43, 44, 45, 46, or 50.
- h = Housing size 2, 3 or 4.

Schedule of Limitations:

1. Rated 400Y/230 VAC.
2. In a 31.5 A application, field wiring conductors shall be rated not less than 12 K above the surrounding air temperature.
3. In a 63 A application, field wiring conductors shall be rated not less than 40 K above the surrounding air temperature.
4. The flameproof enclosure cannot be repaired.
5. The Series 8530/1-MCB shall be protected from exposure to ultraviolet light.
6. For EPL Gb applications, the Series 8530/1-MCB shall be installed in an increased safety "eb" enclosure.
7. In a 31.5 A application, the maximum rise of this MCB enclosure is 10 K with a limiting temperature in the final application of 110 °C.
8. In a 63 A application, the maximum rise of this MCB enclosure is 28 K with a limiting temperature in the final application of 110 °C.
9. In a 31.5 A application, the maximum rise of this MCB for the determination of temperature class is 38 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °C for T4.
10. In a 63 A application, the maximum rise of this MCB for the determination of temperature class is 48 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °C for T4.
11. For b = 06, the maximum available fault current shall not exceed 6 000 symmetrical amperes.
12. For b = 10, the maximum available fault current shall not exceed 10 000 symmetrical amperes.

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FM19ATEX0191U

II 2G Ex db eb IIC Gb

Ts = -40 °C to +70 °C

- b = Short-circuit rating 06 or 10
- d = Tripping characteristic K or Z.
- e = Nominal current 50 or 63.
- f = Accessories 0, 1, 2, 3, 4, 5, or 6.
- g = Accessories 00, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 40, 41, 42, 43, 44, 45, 46, or 50.
- h = Housing size 2, 3, or 4.

Schedule of Limitations:

1. Rated 400Y/230 VAC.
2. In a 31.5 A application, field wiring conductors shall be rated not less than 11 K above the surrounding air temperature.
3. In a 63 A application, field wiring conductors shall be rated not less than 35 above the surrounding air temperature.
4. The flameproof enclosure cannot be repaired.
5. The Series 8530/1-MCB shall be protected from exposure to ultraviolet light.
6. For EPL Gb applications, the Series 8530/1-MCB shall be installed in an increased safety "eb" enclosure.
7. In a 31.5 A application, the maximum rise of this MCB enclosure is 8 K with a limiting temperature in the final application of 110 °C.
8. In a 63 A application, the maximum rise of this MCB enclosure is 23 K with a limiting temperature in the final application of 110 °C.
9. In a 31.5 A application, the maximum rise of this MCB 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.
10. In a 63 A application, the maximum rise of this MCB for the determination of temperature class is 36 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °C for T4.
11. For b = 06, the maximum available fault current shall not exceed 6 000 symmetrical amperes.
12. For b = 10, the maximum available fault current shall not exceed 10 000 symmetrical amperes.

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8530/1-MCB-STAb3-de-fg-h. Explosion Protected Circuit Breaker.

FM19ATEX0191U

II 2G Ex db eb IIC Gb

Ts = -40 °C to +70 °C

- b = Short-circuit rating 06 or 10
- d = Tripping characteristic B, C, D, K, or Z.
- e = Nominal current 0.5, 1, 1.6, 2, 3, 4, 5, 6, 8, 10, 13, 15, or 16.
- f = Accessories 0, 1, 2, 3, 4, 5, or 6.
- g = Accessories 00, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 40, 41, 42, 43, 44, 45, 46, or 50.
- h = Housing size 3 or 4.

Schedule of Limitations:

1. Rated 400Y/230 VAC.
2. In a 8 A application, field wiring conductors shall be rated not less than 14 K above the surrounding air temperature.
3. In a 16 A application, field wiring conductors shall be rated not less than 18 K above the surrounding air temperature.
4. The flameproof enclosure cannot be repaired.
5. The Series 8530/1-MCB shall be protected from exposure to ultraviolet light.
6. For EPL Gb applications, the Series 8530/1-MCB shall be installed in an increased safety "eb" enclosure.
7. In a 8 A application, the maximum rise of this MCB enclosure is 11 K with a limiting temperature in the final application of 110 °C.
8. In a 16 A application, the maximum rise of this MCB enclosure is 13 K with a limiting temperature in the final application of 110 °C.
9. In a 8 A application, the maximum rise of this MCB for the determination of temperature class is 15 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °C for T4.
10. In a 16 A application, the maximum rise of this MCB 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. For b = 06, the maximum available fault current shall not exceed 6 000 symmetrical amperes.
12. For b = 10, the maximum available fault current shall not exceed 10 000 symmetrical amperes.

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II 2G Ex db eb IIC Gb

Ts = -40 °C to +70 °C

- b = Short-circuit rating 06 or 10
- d = Tripping characteristic B, C, D, K, or Z.
- e = Nominal current 20.
- f = Accessories 0, 1, 2, 3, 4, 5, or 6.
- g = Accessories 00, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 40, 41, 42, 43, 44, 45, 46, or 50.
- h = Housing size 3 or 4.

Schedule of Limitations:

1. Rated 400Y/230 VAC.
2. In a 20 A application, field wiring conductors shall be rated not less than 8 K above the surrounding air temperature.
3. In a 10 A application, field wiring conductors shall be rated not less than 22 K above the surrounding air temperature.
4. The flameproof enclosure cannot be repaired.
5. The Series 8530/1-MCB shall be protected from exposure to ultraviolet light.
6. For EPL Gb applications, the Series 8530/1-MCB shall be installed in an increased safety "eb" enclosure.
7. In a 20 A application, the maximum rise of this MCB enclosure is 7 K with a limiting temperature in the final application of 110 °C.
8. In a 10 A application, the maximum rise of this MCB enclosure is 17 K with a limiting temperature in the final application of 110 °C.
9. In a 10 A application, the maximum rise of this MCB 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.
10. In a 10 A application, the maximum rise of this MCB 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.
11. For b = 06, the maximum available fault current shall not exceed 6 000 symmetrical amperes.
12. For b = 10, the maximum available fault current shall not exceed 10 000 symmetrical amperes.

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II 2G Ex db eb IIC Gb

Ts = -40 °C to +70 °C

- b = Short-circuit rating 06 or 10
- d = Tripping characteristic B, C, D, or K.
- e = Nominal current 25, 30, 32, 35, or 40.
- f = Accessories 0, 1, 2, 3, 4, 5, or 6.
- g = Accessories 00, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 40, 41, 42, 43, 44, 45, 46, or 50.
- h = Housing size 3 or 4.

Schedule of Limitations:

1. Rated 400Y/230 VAC.
2. In a 20 A application, field wiring conductors shall be rated not less than 15 K above the surrounding air temperature.
3. In a 40 A application, field wiring conductors shall be rated not less than 47 K above the surrounding air temperature.
4. The flameproof enclosure cannot be repaired.
5. The Series 8530/1-MCB shall be protected from exposure to ultraviolet light.
6. For EPL Gb applications, the Series 8530/1-MCB shall be installed in an increased safety "eb" enclosure.
7. In a 20 A application, the maximum rise of this MCB enclosure is 17 K with a limiting temperature in the final application of 110 °C.
8. In a 40 A application, the maximum rise of this MCB enclosure is 47 K with a limiting temperature in the final application of 110 °C.
9. In a 20 A application, the maximum rise of this MCB for the determination of temperature class is 43 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °C for T4.
10. In a 40 A application, the maximum rise of this MCB 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 130 °C for T4.
11. For b = 06, the maximum available fault current shall not exceed 6 000 symmetrical amperes.
12. For b = 10, the maximum available fault current shall not exceed 10 000 symmetrical amperes.

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8530/1-MCB-STAb3-de-fg-h. Explosion Protected Circuit Breaker.

FM19ATEX0191U

II 2G Ex db eb IIC Gb

Ts = -40 °C to +70 °C

- b = Short-circuit rating 06 or 10
- d = Tripping characteristic Z.
- e = Nominal current 25, 30, 32, 35, or 40.
- f = Accessories 0, 1, 2, 3, 4, 5, or 6.
- g = Accessories 00, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 40, 41, 42, 43, 44, 45, 46, or 50.
- h = Housing size 3 or 4.

Schedule of Limitations:

1. Rated 400Y/230 VAC.
2. In a 20 A application, field wiring conductors shall be rated not less than 11 K above the surrounding air temperature.
3. In a 40 A application, field wiring conductors shall be rated not less than 35 K above the surrounding air temperature.
4. The flameproof enclosure cannot be repaired.
5. The Series 8530/1-MCB shall be protected from exposure to ultraviolet light.
6. For EPL Gb applications, the Series 8530/1-MCB shall be installed in an increased safety "eb" enclosure.
7. In a 20 A application, the maximum rise of this MCB enclosure is 9 K with a limiting temperature in the final application of 110 °C.
8. In a 40 A application, the maximum rise of this MCB enclosure is 25 K with a limiting temperature in the final application of 110 °C.
9. In a 20 A application, the maximum rise of this MCB 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.
10. In a 40 A application, the maximum rise of this MCB 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.
11. For b = 06, the maximum available fault current shall not exceed 6 000 symmetrical amperes.
12. For b = 10, the maximum available fault current shall not exceed 10 000 symmetrical amperes.

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FM19ATEX0191U

II 2G Ex db eb IIC Gb

Ts = -40 °C to +70 °C

- b = Short-circuit rating 06 or 10
- d = Tripping characteristic B, C, D, or Z.
- e = Nominal current 50 or 63.
- f = Accessories 0, 1, 2, 3, 4, 5, or 6.
- g = Accessories 00, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 40, 41, 42, 43, 44, 45, 46, or 50.
- h = Housing size 3 or 4.

Schedule of Limitations:

1. Rated 400Y/230 VAC.
2. In a 31.5 A application, field wiring conductors shall be rated not less than 18 K above the surrounding air temperature.
3. In a 63 A application, field wiring conductors shall be rated not less than 59 K above the surrounding air temperature.
4. The flameproof enclosure cannot be repaired.
5. The Series 8530/1-MCB shall be protected from exposure to ultraviolet light.
6. For EPL Gb applications, the Series 8530/1-MCB shall be installed in an increased safety "eb" enclosure.
7. In a 31.5 A application, the maximum rise of this MCB enclosure is 24 K with a limiting temperature in the final application of 110 °C.
8. In a 63 A application, the maximum rise of this MCB enclosure is 59 K with a limiting temperature in the final application of 110 °C.
9. In a 31.5 A application, the maximum rise of this MCB 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.
10. In a 63 A application, the maximum rise of this MCB for the determination of temperature class is 59 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °C for T4.
11. For b = 06, the maximum available fault current shall not exceed 6 000 symmetrical amperes.
12. For b = 10, the maximum available fault current shall not exceed 10 000 symmetrical amperes.

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8530/1-MCB-STAb3-de-fg-h. Explosion Protected Circuit Breaker.

FM19ATEX0191U

II 2G Ex db eb IIC Gb

Ts = -40 °C to +70 °C

- b = Short-circuit rating 06 or 10
- d = Tripping characteristic K.
- e = Nominal current 50 or 63.
- f = Accessories 0, 1, 2, 3, 4, 5, or 6.
- g = Accessories 00, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 40, 41, 42, 43, 44, 45, 46, or 50.
- h = Housing size 3 or 4.

Schedule of Limitations:

1. Rated 400Y/230 VAC.
2. In a 31.5 A application, field wiring conductors shall be rated not less than 13 K above the surrounding air temperature.
3. In a 63 A application, field wiring conductors shall be rated not less than 42 K above the surrounding air temperature.
4. The flameproof enclosure cannot be repaired.
5. The Series 8530/1-MCB shall be protected from exposure to ultraviolet light.
6. For EPL Gb applications, the Series 8530/1-MCB shall be installed in an increased safety "eb" enclosure.
7. In a 31.5 A application, the maximum rise of this MCB enclosure is 10 K with a limiting temperature in the final application of 110 °C.
8. In a 63 A application, the maximum rise of this MCB enclosure is 25 K with a limiting temperature in the final application of 110 °C.
9. In a 31.5 A application, the maximum rise of this MCB 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.
10. In a 63 A application, the maximum rise of this MCB 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.
11. For b = 06, the maximum available fault current shall not exceed 6 000 symmetrical amperes.
12. For b = 10, the maximum available fault current shall not exceed 10 000 symmetrical amperes.

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8530/1-MCB-STAb3N-de-fg-4. Explosion Protected Circuit Breaker.

FM19ATEX0191U

II 2G Ex db eb IIC Gb

Ts = -40 °C to +70 °C

- b = Short-circuit rating 06 or 10
- d = Tripping characteristic K.
- e = Nominal current 0.5, 1, 1.6, 2, 3, 4, 5, 6, 8, 10, 13, 15, or 16.
- f = Accessories 0, 1, 2, 3, 4, 5, or 6.
- g = Accessories 00, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 40, 41, 42, 43, 44, 45, 46, or 50.

Schedule of Limitations:

1. Rated 400Y/230 VAC.
2. For 8 A applications, field wiring conductors shall be rated not less than 10 K above the surrounding air temperature.
3. For 16 A applications, field wiring conductors shall be rated not less than 24 K above the surrounding air temperature.
4. The flameproof enclosure cannot be repaired.
5. The Series 8530/1-MCB shall be protected from exposure to ultraviolet light.
6. For EPL Gb applications, the Series 8530/1-MCB shall be installed in an increased safety "eb" enclosure.
7. For 8 A applications, the maximum rise of this MCB enclosure is 8 K with a limiting temperature in the final application of 110 °C.
8. For 16 A applications, the maximum rise of this MCB enclosure is 18 K with a limiting temperature in the final application of 110 °C.
9. For 8 A applications, the maximum rise of this MCB for the determination of temperature class is 18 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °C for T4.
10. For 16 A applications, the maximum rise of this MCB 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. For b = 06, the maximum available fault current shall not exceed 6 000 symmetrical amperes.
12. For b = 10, the maximum available fault current shall not exceed 10 000 symmetrical amperes.

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8530/1-MCB-STAb3N-de-fg-4. Explosion Protected Circuit Breaker.

FM19ATEX0191U

II 2G Ex db eb IIC Gb

Ts = -40 °C to +70 °C

- b = Short-circuit rating 06 or 10
- d = Tripping characteristic B, C, D, or Z.
- e = Nominal current 0.5, 1, 1.6, 2, 3, 4, 5, 6, 8, 10, 13, 15, 16, or 20.
- f = Accessories 0, 1, 2, 3, 4, 5, or 6.
- g = Accessories 00, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 40, 41, 42, 43, 44, 45, 46, or 50.

Schedule of Limitations:

1. Rated 400Y/230 VAC.
2. For 10 A applications, field wiring conductors shall be rated not less than 11 K above the surrounding air temperature.
3. For 20 A applications, field wiring conductors shall be rated not less than 19 K above the surrounding air temperature.
4. The flameproof enclosure cannot be repaired.
5. The Series 8530/1-MCB shall be protected from exposure to ultraviolet light.
6. For EPL Gb applications, the Series 8530/1-MCB shall be installed in an increased safety "eb" enclosure.
7. For 10 A applications, the maximum rise of this MCB enclosure is 8 K with a limiting temperature in the final application of 110 °C.
8. For 20 A applications, the maximum rise of this MCB enclosure is 15 K with a limiting temperature in the final application of 110 °C.
9. For 10 A applications, the maximum rise of this MCB for the determination of temperature class is 12 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °C for T4.
10. For 20 A applications, the maximum rise of this MCB 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. For b = 06, the maximum available fault current shall not exceed 6 000 symmetrical amperes.
12. For b = 10, the maximum available fault current shall not exceed 10 000 symmetrical amperes.

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ANNEX A
to EU-Type Examination Certificate No. FM19ATEX0191U

8530/1-MCB-STAb3N-de-fg-4. Explosion Protected Circuit Breaker.

FM19ATEX0191U

II 2G Ex db eb IIC Gb

Ts = -40 °C to +70 °C

- b = Short-circuit rating 06 or 10
- d = Tripping characteristic Z.
- e = Nominal current 25, 30, 32, 35, or 40.
- f = Accessories 0, 1, 2, 3, 4, 5, or 6.
- g = Accessories 00, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 40, 41, 42, 43, 44, 45, 46, or 50.

Schedule of Limitations:

1. Rated 400Y/230 VAC.
2. For 20 A applications, field wiring conductors shall be rated not less than 10 K above the surrounding air temperature.
3. For 40 A applications, field wiring conductors shall be rated not less than 32 K above the surrounding air temperature.
4. The flameproof enclosure cannot be repaired.
5. The Series 8530/1-MCB shall be protected from exposure to ultraviolet light.
6. For EPL Gb applications, the Series 8530/1-MCB shall be installed in an increased safety "eb" enclosure.
7. For 20 A applications, the maximum rise of this MCB enclosure is 8 K with a limiting temperature in the final application of 110 °C.
8. For 40 A applications, the maximum rise of this MCB enclosure is 22 K with a limiting temperature in the final application of 110 °C.
9. For 20 A applications, the maximum rise of this MCB 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.
10. For 40 A applications, the maximum rise of this MCB for the determination of temperature class is 38 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °C for T4.
11. For b = 06, the maximum available fault current shall not exceed 6 000 symmetrical amperes.
12. For b = 10, the maximum available fault current shall not exceed 10 000 symmetrical amperes.

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8530/1-MCB-STAb3N-de-fg-4. Explosion Protected Circuit Breaker.

FM19ATEX0191U

II 2G Ex db eb IIC Gb

Ts = -40 °C to +70 °C

- b = Short-circuit rating 06 or 10
- d = Tripping characteristic B, C, D, or K.
- e = Nominal current 25, 30, 32, 35, or 40.
- f = Accessories 0, 1, 2, 3, 4, 5, or 6.
- g = Accessories 00, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 40, 41, 42, 43, 44, 45, 46, or 50.

Schedule of Limitations:

1. Rated 400Y/230 VAC.
2. For 20 A applications, field wiring conductors shall be rated not less than 11 K above the surrounding air temperature.
3. For 40 A applications, field wiring conductors shall be rated not less than 35 K above the surrounding air temperature.
4. The flameproof enclosure cannot be repaired.
5. The Series 8530/1-MCB shall be protected from exposure to ultraviolet light.
6. For EPL Gb applications, the Series 8530/1-MCB shall be installed in an increased safety "eb" enclosure.
7. For 20 A applications, the maximum rise of this MCB enclosure is 9 K with a limiting temperature in the final application of 110 °C.
8. For 40 A applications, the maximum rise of this MCB enclosure is 26 K with a limiting temperature in the final application of 110 °C.
9. For 20 A applications, the maximum rise of this MCB for the determination of temperature class is 30 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °C for T4.
10. For 40 A applications, the maximum rise of this MCB for the determination of temperature class is 40 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °C for T4.
11. For b = 06, the maximum available fault current shall not exceed 6 000 symmetrical amperes.
12. For b = 10, the maximum available fault current shall not exceed 10 000 symmetrical amperes.

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8530/1-MCB-STAb3N-de-fg-4. Explosion Protected Circuit Breaker.

FM19ATEX0191U

II 2G Ex db eb IIC Gb

Ts = -40 °C to +70 °C

- b = Short-circuit rating 06 or 10
- d = Tripping characteristic K.
- e = Nominal current 50 or 63.
- f = Accessories 0, 1, 2, 3, 4, 5, or 6.
- g = Accessories 00, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 40, 41, 42, 43, 44, 45, 46, or 50.

Schedule of Limitations:

1. Rated 400Y/230 VAC.
2. For 31.5 A applications, field wiring conductors shall be rated not less than 14 K above the surrounding air temperature.
3. For 63 A applications, field wiring conductors shall be rated not less than 43 K above the surrounding air temperature.
4. The flameproof enclosure cannot be repaired.
5. The Series 8530/1-MCB shall be protected from exposure to ultraviolet light.
6. For EPL Gb applications, the Series 8530/1-MCB shall be installed in an increased safety "eb" enclosure.
7. For 31.5 A applications, the maximum rise of this MCB enclosure is 9 K with a limiting temperature in the final application of 110 °C.
8. For 63 A applications, the maximum rise of this MCB enclosure is 24 K with a limiting temperature in the final application of 110 °C.
9. For 31.5 A applications, the maximum rise of this MCB for the determination of temperature class is 43 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °C for T4.
10. For 63 A applications, the maximum rise of this MCB for the determination of temperature class is 53 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °C for T4.
11. For b = 06, the maximum available fault current shall not exceed 6 000 symmetrical amperes.
12. For b = 10, the maximum available fault current shall not exceed 10 000 symmetrical amperes.

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8530/1-MCB-STAb3N-de-fg-4. Explosion Protected Circuit Breaker.

FM19ATEX0191U

II 2G Ex db eb IIC Gb

Ts = -40 °C to +70 °C

- b = Short-circuit rating 06 or 10
- d = Tripping characteristic B, C, D, or Z.
- e = Nominal current 50 or 63.
- f = Accessories 0, 1, 2, 3, 4, 5, or 6.
- g = Accessories 00, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 40, 41, 42, 43, 44, 45, 46, or 50.

Schedule of Limitations:

1. Rated 400Y/230 VAC.
2. For 31.5 A applications, field wiring conductors shall be rated not less than 18 K above the surrounding air temperature.
3. For 63 A applications, field wiring conductors shall be rated not less than 46 K above the surrounding air temperature.
4. The flameproof enclosure cannot be repaired.
5. The Series 8530/1-MCB shall be protected from exposure to ultraviolet light.
6. For EPL Gb applications, the Series 8530/1-MCB shall be installed in an increased safety "eb" enclosure.
7. For 31.5 A applications, the maximum rise of this MCB enclosure is 12 K with a limiting temperature in the final application of 110 °C.
8. For 63 A applications, the maximum rise of this MCB enclosure is 24 K with a limiting temperature in the final application of 110 °C.
9. For 31.5 A applications, the maximum rise of this MCB for the determination of temperature class is 46 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °C for T4.
10. For 63 A applications, the maximum rise of this MCB 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.
11. For b = 06, the maximum available fault current shall not exceed 6 000 symmetrical amperes.
12. For b = 10, the maximum available fault current shall not exceed 10 000 symmetrical amperes.

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ANNEX A
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8530/1-MCB-STAb1N-de-fg-h. Explosion Protected Circuit Breaker.
FM19ATEX0191U
II 2G Ex db eb IIC Gb
Ts = -40 °C to +70 °C

- b = Short-circuit rating 15 or 25.
- d = Tripping characteristic B, C, D, K, or Z.
- e = Nominal current 0.5, 1, 1.6, 2, 3, 4, 5, 6, 8, 10, 13, 15, 16, or 20.
- f = Accessories 0, 1, 2, 3, 4, 5, or 6.
- g = Accessories 00, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 40, 41, 42, 43, 44, 45, 46, or 50.
- h = Housing size, 2, 3, or 4.

Schedule of Limitations:

1. Rated 254 VAC.
2. For 10 A applications, field wiring conductors shall be rated not less than 7 K above the surrounding air temperature.
3. For 20 A applications, field wiring conductors shall be rated not less than 24 K above the surrounding air temperature.
4. The flameproof enclosure cannot be repaired.
5. The Series 8530/1-MCB shall be protected from exposure to ultraviolet light.
6. For EPL Gb applications, the Series 8530/1-MCB shall be installed in an increased safety "eb" enclosure.
7. For 10 A applications, the maximum rise of this MCB enclosure is 6 K with a limiting temperature in the final application of 110 °C.
8. For 20 A applications, the maximum rise of this MCB enclosure is 13 K with a limiting temperature in the final application of 110 °C.
9. For 10 A applications, the maximum rise of this MCB 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.
10. For 20 A applications, the maximum rise of this MCB 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.
11. For b = 15, the maximum available fault current shall not exceed 15 000 symmetrical amperes.
12. For b = 25, the maximum available fault current shall not exceed 25 000 symmetrical amperes.

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ANNEX A
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8530/1-MCB-STA151N-de-fg-h. Explosion Protected Circuit Breaker.

FM19ATEX0191U

II 2G Ex db eb IIC Gb

Ts = -40 °C to +70 °C

- d = Tripping characteristic B, C, D, K, or Z.
- e = Nominal current 25, 30, 32, 35, or 40.
- f = Accessories 0, 1, 2, 3, 4, 5, or 6.
- g = Accessories 00, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 40, 41, 42, 43, 44, 45, 46, or 50.
- h = Housing size, 2, 3, or 4.

Schedule of Limitations:

1. Rated 254 VAC.
2. For 20 A applications, field wiring conductors shall be rated not less than 12 K above the surrounding air temperature.
3. For 40 A applications, field wiring conductors shall be rated not less than 40 K above the surrounding air temperature.
4. The flameproof enclosure cannot be repaired.
5. The Series 8530/1-MCB shall be protected from exposure to ultraviolet light.
6. For EPL Gb applications, the Series 8530/1-MCB shall be installed in an increased safety "eb" enclosure.
7. For 20 A applications, the maximum rise of this MCB enclosure is 10 K with a limiting temperature in the final application of 110 °C.
8. For 40 A applications, the maximum rise of this MCB enclosure is 28 K with a limiting temperature in the final application of 110 °C.
9. For 20 A applications, the maximum rise of this MCB for the determination of temperature class is 38 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °C for T4.
10. For 40 A applications, the maximum rise of this MCB for the determination of temperature class is 48 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °C for T4.
11. The maximum available fault current shall not exceed 15 000 symmetrical amperes.

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ANNEX A
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8530/1-MCB-STAb2-de-fg-h. Explosion Protected Circuit Breaker.

FM19ATEX0191U

II 2G Ex db eb IIC Gb

Ts = -40 °C to +70 °C

- b = Short-circuit rating 15 or 25.
- d = Tripping characteristic B, C, D, K, or Z.
- e = Nominal current 0.5, 1, 1.6, 2, 3, 4, 5, 6, 8, 10, 13, 15, 16, or 20.
- f = Accessories 0, 1, 2, 3, 4, 5, or 6.
- g = Accessories 00, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 40, 41, 42, 43, 44, 45, 46, or 50.
- h = Housing size, 2, 3, or 4.

Schedule of Limitations:

1. Rated 440Y/254 VAC.
2. For 10 A applications, field wiring conductors shall be rated not less than 7 K above the surrounding air temperature.
3. For 20 A applications, field wiring conductors shall be rated not less than 24 K above the surrounding air temperature.
4. The flameproof enclosure cannot be repaired.
5. The Series 8530/1-MCB shall be protected from exposure to ultraviolet light.
6. For EPL Gb applications, the Series 8530/1-MCB shall be installed in an increased safety "eb" enclosure.
7. For 10 A applications, the maximum rise of this MCB enclosure is 6 K with a limiting temperature in the final application of 110 °C.
8. For 20 A applications, the maximum rise of this MCB enclosure is 13 K with a limiting temperature in the final application of 110 °C.
9. For 10 A applications, the maximum rise of this MCB 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.
10. For 20 A applications, the maximum rise of this MCB 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.
11. For b = 15, the maximum available fault current shall not exceed 15 000 symmetrical amperes.
12. For b = 25, the maximum available fault current shall not exceed 25 000 symmetrical amperes.

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ANNEX A
to EU-Type Examination Certificate No. FM19ATEX0191U

8530/1-MCB-STA152-de-fg-h. Explosion Protected Circuit Breaker.

FM19ATEX0191U

II 2G Ex db eb IIC Gb

Ts = -40 °C to +70 °C

- d = Tripping characteristic B, C, D, K, or Z.
- e = Nominal current 25, 30, 32, 35, or 40.
- f = Accessories 0, 1, 2, 3, 4, 5, or 6.
- g = Accessories 00, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 40, 41, 42, 43, 44, 45, 46, or 50.
- h = Housing size, 2, 3, or 4.

Schedule of Limitations:

1. Rated 440Y/254 VAC.
2. For 20 A applications, field wiring conductors shall be rated not less than 12 K above the surrounding air temperature.
3. For 40 A applications, field wiring conductors shall be rated not less than 40 K above the surrounding air temperature.
4. The flameproof enclosure cannot be repaired.
5. The Series 8530/1-MCB shall be protected from exposure to ultraviolet light.
6. For EPL Gb applications, the Series 8530/1-MCB shall be installed in an increased safety "eb" enclosure.
7. For 20 A applications, the maximum rise of this MCB enclosure is 10 K with a limiting temperature in the final application of 110 °C.
8. For 40 A applications, the maximum rise of this MCB enclosure is 28 K with a limiting temperature in the final application of 110 °C.
9. For 20 A applications, the maximum rise of this MCB for the determination of temperature class is 38 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °C for T4.
10. For 40 A applications, the maximum rise of this MCB for the determination of temperature class is 48 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °C for T4.
11. The maximum available fault current shall not exceed 15 000 symmetrical amperes.

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ANNEX A
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8530/1-MCB-STAb3-de-fg-h. Explosion Protected Circuit Breaker.

FM19ATEX0191U

II 2G Ex db eb IIC Gb

Ts = -40 °C to +70 °C

- b = Short circuit rating 15 or 25
- d = Tripping characteristic B, C, D, K, or Z.
- e = Nominal current 0.5, 1, 1.6, 2, 3, 4, 5, 6, 8, 10, 13, 15, 16, or 20.
- f = Accessories 0, 1, 2, 3, 4, 5, or 6.
- g = Accessories 00, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 40, 41, 42, 43, 44, 45, 46, or 50.
- h = Housing size 3 or 4.

Schedule of Limitations:

1. Rated 440Y/254 VAC.
2. For 10 A applications, field wiring conductors shall be rated not less than 8 K above the surrounding air temperature.
3. For 20 A applications, field wiring conductors shall be rated not less than 24 K above the surrounding air temperature.
4. The flameproof enclosure cannot be repaired.
5. The Series 8530/1-MCB shall be protected from exposure to ultraviolet light.
6. For EPL Gb applications, the Series 8530/1-MCB shall be installed in an increased safety "eb" enclosure.
7. For 10 A applications, the maximum rise of this MCB enclosure is 7 K with a limiting temperature in the final application of 110 °C.
8. For 20 A applications, the maximum rise of this MCB enclosure is 17 K with a limiting temperature in the final application of 110 °C.
9. For 10 A applications, the maximum rise of this MCB 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.
10. For 20 A applications, the maximum rise of this MCB 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.
11. For b = 15, the maximum available fault current shall not exceed 15 000 symmetrical amperes.
12. For b = 25, the maximum available fault current shall not exceed 25 000 symmetrical amperes.

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ANNEX A
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8530/1-MCB-STA153-de-fg-h. Explosion Protected Circuit Breaker.

FM19ATEX0191U

II 2G Ex db eb IIC Gb

Ts = -40 °C to +70 °C

- d = Tripping characteristic B, C, D, K, or Z.
- e = Nominal current 25, 30, 32, 35, or 40.
- f = Accessories 0, 1, 2, 3, 4, 5, or 6.
- g = Accessories 00, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 40, 41, 42, 43, 44, 45, 46, or 50.
- h = Housing size 3 or 4.

Schedule of Limitations:

1. Rated 440Y/254 VAC.
2. For 20 A applications, field wiring conductors shall be rated not less than 11 K above the surrounding air temperature.
3. For 40 A applications, field wiring conductors shall be rated not less than 47 K above the surrounding air temperature.
4. The flameproof enclosure cannot be repaired.
5. The Series 8530/1-MCB shall be protected from exposure to ultraviolet light.
6. For EPL Gb applications, the Series 8530/1-MCB shall be installed in an increased safety "eb" enclosure.
7. For 20 A applications, the maximum rise of this MCB enclosure is 17 K with a limiting temperature in the final application of 110 °C.
8. For 40 A applications, the maximum rise of this MCB enclosure is 47 K with a limiting temperature in the final application of 110 °C.
9. For 20 A applications, the maximum rise of this MCB for the determination of temperature class is 43 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °C for T4.
10. For 40 A applications, the maximum rise of this MCB 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 130 °C for T4.
11. The maximum available fault current shall not exceed 15 000 symmetrical amperes.

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ANNEX A
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8530/1-MCB-STA153-de-fg-h. Explosion Protected Circuit Breaker.

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II 2G Ex db eb IIC Gb

Ts = -40 °C to +70 °C

- d = Tripping characteristic B, C, D, K, or Z.
- e = Nominal current 50 or 63.
- f = Accessories 0, 1, 2, 3, 4, 5, or 6.
- g = Accessories 00, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 40, 41, 42, 43, 44, 45, 46, or 50.
- h = Housing size 3 or 4.

Schedule of Limitations:

1. Rated 440Y/254 VAC.
2. For 31.5 A applications, field wiring conductors shall be rated not less than 18 K above the surrounding air temperature.
3. For 63 A applications, field wiring conductors shall be rated not less than 59 K above the surrounding air temperature.
4. The flameproof enclosure cannot be repaired.
5. The Series 8530/1-MCB shall be protected from exposure to ultraviolet light.
6. For EPL Gb applications, the Series 8530/1-MCB shall be installed in an increased safety "eb" enclosure.
7. For 31.5 A applications, the maximum rise of this MCB enclosure is 24 K with a limiting temperature in the final application of 110 °C.
8. For 63 A applications, the maximum rise of this MCB enclosure is 59 K with a limiting temperature in the final application of 110 °C.
9. For 31.5 A applications, the maximum rise of this MCB 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.
10. For 63 A applications, the maximum rise of this MCB for the determination of temperature class is 59 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °C for T4.
11. The maximum available fault current shall not exceed 15 000 symmetrical amperes.

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8530/1-MCB-STA153N-de-fg-4. Explosion Protected Circuit Breaker.

FM19ATEX0191U

II 2G Ex db eb IIC Gb

Ts = -40 °C to +70 °C

- d = Tripping characteristic K.
- e = Nominal current 0.5, 1, 1.6, 2, 3, 4, 5, 6, 8, 10, 13, 15, 16, or 20.
- f = Accessories 0, 1, 2, 3, 4, 5, or 6.
- g = Accessories 00, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 40, 41, 42, 43, 44, 45, 46, or 50.

Schedule of Limitations:

1. Rated 440Y/254 VAC.
2. For 10 A applications, field wiring conductors shall be rated not less than 8 K above the surrounding air temperature.
3. For 20 A applications, field wiring conductors shall be rated not less than 24 K above the surrounding air temperature.
4. The flameproof enclosure cannot be repaired.
5. The Series 8530/1-MCB shall be protected from exposure to ultraviolet light.
6. For EPL Gb applications, the Series 8530/1-MCB shall be installed in an increased safety "eb" enclosure.
7. For 10 A applications, the maximum rise of this MCB enclosure is 8 K with a limiting temperature in the final application of 110 °C.
8. For 20 A applications, the maximum rise of this MCB enclosure is 18 K with a limiting temperature in the final application of 110 °C.
9. For 10 A applications, the maximum rise of this MCB for the determination of temperature class is 18 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °C for T4.
10. For 20 A applications, the maximum rise of this MCB 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. The maximum available fault current shall not exceed 15 000 symmetrical amperes.

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8530/1-MCB-STA153N-de-fg-4. Explosion Protected Circuit Breaker.

FM19ATEX0191U

II 2G Ex db eb IIC Gb

Ts = -40 °C to +70 °C

- d = Tripping characteristic B, C, D, or Z.
- e = Nominal current 0.5, 1, 1.6, 2, 3, 4, 5, 6, 8, 10, 13, 15, 16, or 20.
- f = Accessories 0, 1, 2, 3, 4, 5, or 6.
- g = Accessories 00, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 40, 41, 42, 43, 44, 45, 46, or 50.

Schedule of Limitations:

1. Rated 440Y/254 VAC.
2. For 10 A applications, field wiring conductors shall be rated not less than 11 K above the surrounding air temperature.
3. For 20 A applications, field wiring conductors shall be rated not less than 19 K above the surrounding air temperature.
4. The flameproof enclosure cannot be repaired.
5. The Series 8530/1-MCB shall be protected from exposure to ultraviolet light.
6. For EPL Gb applications, the Series 8530/1-MCB shall be installed in an increased safety "eb" enclosure.
7. For 10 A applications, the maximum rise of this MCB enclosure is 8 K with a limiting temperature in the final application of 110 °C.
8. For 20 A applications, the maximum rise of this MCB enclosure is 15 K with a limiting temperature in the final application of 110 °C.
9. For 10 A applications, the maximum rise of this MCB for the determination of temperature class is 12 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °C for T4.
10. For 20 A applications, the maximum rise of this MCB 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. The maximum available fault current shall not exceed 15 000 symmetrical amperes.

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ANNEX A
to EU-Type Examination Certificate No. FM19ATEX0191U

8530/1-MCB-STA153N-de-fg-4. Explosion Protected Circuit Breaker.

FM19ATEX0191U

II 2G Ex db eb IIC Gb

Ts = -40 °C to +70 °C

- d = Tripping characteristic B, C, D, K, or Z.
- e = Nominal current 25, 30, 32, 35, or 40.
- f = Accessories 0, 1, 2, 3, 4, 5, or 6.
- g = Accessories 00, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 40, 41, 42, 43, 44, 45, 46, or 50.

Schedule of Limitations:

1. Rated 440Y/254 VAC.
2. For 20 A applications, field wiring conductors shall be rated not less than 11 K above the surrounding air temperature.
3. For 40 A applications, field wiring conductors shall be rated not less than 35 K above the surrounding air temperature.
4. The flameproof enclosure cannot be repaired.
5. The Series 8530/1-MCB shall be protected from exposure to ultraviolet light.
6. For EPL Gb applications, the Series 8530/1-MCB shall be installed in an increased safety "eb" enclosure.
7. For 20 A applications, the maximum rise of this MCB enclosure is 9 K with a limiting temperature in the final application of 110 °C.
8. For 40 A applications, the maximum rise of this MCB enclosure is 26 K with a limiting temperature in the final application of 110 °C.
9. For 20 A applications, the maximum rise of this MCB for the determination of temperature class is 30 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °C for T4.
10. For 40 A applications, the maximum rise of this MCB for the determination of temperature class is 40 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °C for T4.
11. The maximum available fault current shall not exceed 15 000 symmetrical amperes.

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ANNEX A
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8530/1-MCB-STA153N-de-fg-4. Explosion Protected Circuit Breaker.

FM19ATEX0191U

II 2G Ex db eb IIC Gb

Ts = -40 °C to +70 °C

- d = Tripping characteristic B, C, D, K, or Z.
- e = Nominal current 50 or 63.
- f = Accessories 0, 1, 2, 3, 4, 5, or 6.
- g = Accessories 00, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 40, 41, 42, 43, 44, 45, 46, or 50.

Schedule of Limitations:

1. Rated 440Y/254 VAC.
2. For 31.5 A applications, field wiring conductors shall be rated not less than 18 K above the surrounding air temperature.
3. For 63 A applications, field wiring conductors shall be rated not less than 46 K above the surrounding air temperature.
4. The flameproof enclosure cannot be repaired.
5. The Series 8530/1-MCB shall be protected from exposure to ultraviolet light.
6. For EPL Gb applications, the Series 8530/1-MCB shall be installed in an increased safety "eb" enclosure.
7. For 31.5 A applications, the maximum rise of this MCB enclosure is 12 K with a limiting temperature in the final application of 110 °C.
8. For 63 A applications, the maximum rise of this MCB enclosure is 24 K with a limiting temperature in the final application of 110 °C.
9. For 31.5 A applications, the maximum rise of this MCB for the determination of temperature class is 46 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °C for T4.
10. For 63 A applications, the maximum rise of this MCB 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.
11. The maximum available fault current shall not exceed 15 000 symmetrical amperes.

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ANNEX A
to EU-Type Examination Certificate No. FM19ATEX0191U

8530/1-MCB-STA251N-de-fg-h. Explosion Protected Circuit Breaker.

FM19ATEX0191U

II 2G Ex db eb IIC Gb

Ts = -40 °C to +70 °C

- d = Tripping characteristic B, C, D, K, or Z.
- e = Nominal current 25.
- f = Accessories 0, 1, 2, 3, 4, 5, or 6.
- g = Accessories 00, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 40, 41, 42, 43, 44, 45, 46, or 50.
- h = Housing size 2, 3, or 4.

Schedule of Limitations:

1. Rated 254 VAC.
2. In a 12.5 A application, field wiring conductors shall be rated not less than 8 K above the surrounding air temperature.
3. In a 25 A application, field wiring conductors shall be rated not less than 27 K above the surrounding air temperature.
4. The flameproof enclosure cannot be repaired.
5. The Series 8530/1-MCB shall be protected from exposure to ultraviolet light.
6. For EPL Gb applications, the Series 8530/1-MCB shall be installed in an increased safety "eb" enclosure.
7. In a 12.5 A application, the maximum rise of this MCB enclosure is 6 K with a limiting temperature in the final application of 110 °C.
8. In a 25 A application, the maximum rise of this MCB enclosure is 17 K with a limiting temperature in the final application of 110 °C.
9. In a 12.5 A application, the maximum rise of this MCB for the determination of temperature class is 18 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °C for T4.
10. In a 25 A application, the maximum rise of this MCB 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. The maximum available fault current shall not exceed 25 000 symmetrical amperes.

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ANNEX A
to EU-Type Examination Certificate No. FM19ATEX0191U

8530/1-MCB-STA252-de-fg-h. Explosion Protected Circuit Breaker.

FM19ATEX0191U

II 2G Ex db eb IIC Gb

Ts = -40 °C to +70 °C

- d = Tripping characteristic B, C, D, K, or Z.
- e = Nominal current 25.
- f = Accessories 0, 1, 2, 3, 4, 5, or 6.
- g = Accessories 00, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 40, 41, 42, 43, 44, 45, 46, or 50.
- h = Housing size 2, 3, or 4.

Schedule of Limitations:

1. Rated 440Y/254 VAC.
2. In a 12.5 A application, field wiring conductors shall be rated not less than 8 K above the surrounding air temperature.
3. In a 25 A application, field wiring conductors shall be rated not less than 27 K above the surrounding air temperature.
4. The flameproof enclosure cannot be repaired.
5. The Series 8530/1-MCB shall be protected from exposure to ultraviolet light.
6. For EPL Gb applications, the Series 8530/1-MCB shall be installed in an increased safety "eb" enclosure.
7. In a 12.5 A application, the maximum rise of this MCB enclosure is 6 K with a limiting temperature in the final application of 110 °C.
8. In a 25 A application, the maximum rise of this MCB enclosure is 17 K with a limiting temperature in the final application of 110 °C.
9. In a 12.5 A application, the maximum rise of this MCB for the determination of temperature class is 18 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °C for T4.
10. In a 25 A application, the maximum rise of this MCB 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. The maximum available fault current shall not exceed 25 000 symmetrical amperes.

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ANNEX A
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8530/1-MCB-STA253-de-fg-h. Explosion Protected Circuit Breaker.

FM19ATEX0191U

II 2G Ex db eb IIC Gb

Ts = -40 °C to +70 °C

- d = Tripping characteristic B, C, D, K, or Z.
- e = Nominal current 25.
- f = Accessories 0, 1, 2, 3, 4, 5, or 6.
- g = Accessories 00, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 40, 41, 42, 43, 44, 45, 46, or 50.
- h = Housing size 3 or 4.

Schedule of Limitations:

1. Rated 440Y/254 VAC.
2. In a 12.5 A application, field wiring conductors shall be rated not less than 15 K above the surrounding air temperature.
3. In a 25 A application, field wiring conductors shall be rated not less than 47 K above the surrounding air temperature.
4. The flameproof enclosure cannot be repaired.
5. The Series 8530/1-MCB shall be protected from exposure to ultraviolet light.
6. For EPL Gb applications, the Series 8530/1-MCB shall be installed in an increased safety "eb" enclosure.
7. In a 12.5 A application, the maximum rise of this MCB enclosure is 17 K with a limiting temperature in the final application of 110 °C.
8. In a 25 A application, the maximum rise of this MCB enclosure is 47 K with a limiting temperature in the final application of 110 °C.
9. In a 12.5 A application, the maximum rise of this MCB for the determination of temperature class is 43 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °C for T4.
10. In a 25 A application, the maximum rise of this MCB 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 130 °C for T4.
11. The maximum available fault current shall not exceed 25 000 symmetrical amperes.

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8530/1-MCB-STA253N-de-fg-4. Explosion Protected Circuit Breaker.

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II 2G Ex db eb IIC Gb

Ts = -40 °C to +70 °C

- d = Tripping characteristic K.
- e = Nominal current 0.5, 1, 1.6, 2, 3, 4, 5, 6, 8, 10, 13, 15, or 16.
- f = Accessories 0, 1, 2, 3, 4, 5, or 6.
- g = Accessories 00, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 40, 41, 42, 43, 44, 45, 46, or 50.

Schedule of Limitations:

1. Rated 440Y/254 VAC.
2. In a 8 A application, field wiring conductors shall be rated not less than 10 K above the surrounding air temperature.
3. In a 16 A application, field wiring conductors shall be rated not less than 24 K above the surrounding air temperature.
4. The flameproof enclosure cannot be repaired.
5. The Series 8530/1-MCB shall be protected from exposure to ultraviolet light.
6. For EPL Gb applications, the Series 8530/1-MCB shall be installed in an increased safety "eb" enclosure.
7. In a 8 A application, the maximum rise of this MCB enclosure is 8 K with a limiting temperature in the final application of 110 °C.
8. In a 16 A application, the maximum rise of this MCB enclosure is 18 K with a limiting temperature in the final application of 110 °C.
9. In a 8 A application, the maximum rise of this MCB for the determination of temperature class is 18 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °C for T4.
10. In a 16 A application, the maximum rise of this MCB 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. The maximum available fault current shall not exceed 25 000 symmetrical amperes.

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8530/1-MCB-STA253N-de-fg-4. Explosion Protected Circuit Breaker.

FM19ATEX0191U

II 2G Ex db eb IIC Gb

Ts = -40 °C to +70 °C

- d = Tripping characteristic B, C, D, or Z.
- e = Nominal current 0.5, 1, 1.6, 2, 3, 4, 5, 6, 8, 10, 13, 15, 16, or 20.
- f = Accessories 0, 1, 2, 3, 4, 5, or 6.
- g = Accessories 00, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 40, 41, 42, 43, 44, 45, 46, or 50.

Schedule of Limitations:

1. Rated 440Y/254 VAC.
2. In a 10 A application, field wiring conductors shall be rated not less than 11 K above the surrounding air temperature.
3. In a 20 A application, field wiring conductors shall be rated not less than 19 K above the surrounding air temperature.
4. The flameproof enclosure cannot be repaired.
5. The Series 8530/1-MCB shall be protected from exposure to ultraviolet light.
6. For EPL Gb applications, the Series 8530/1-MCB shall be installed in an increased safety "eb" enclosure.
7. In a 10 A application, the maximum rise of this MCB enclosure is 8 K with a limiting temperature in the final application of 110 °C.
8. In a 20 A application, the maximum rise of this MCB enclosure is 15 K with a limiting temperature in the final application of 110 °C.
9. In a 10 A application, the maximum rise of this MCB for the determination of temperature class is 12 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °C for T4.
10. In a 20 A application, the maximum rise of this MCB 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. The maximum available fault current shall not exceed 25 000 symmetrical amperes.

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ANNEX A
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8530/1-MCB-STA253N-K20-fg-4. Explosion Protected Circuit Breaker.

FM19ATEX0191U

II 2G Ex db eb IIC Gb

Ts = -40 °C to +70 °C

f = Accessories 0, 1, 2, 3, 4, 5, or 6.

g = Accessories 00, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 40, 41, 42, 43, 44, 45, 46, or 50.

Schedule of Limitations:

1. Rated 440Y/254 VAC.
2. In a 12.5 A application, field wiring conductors shall be rated not less than 11 K above the surrounding air temperature.
3. In a 25 A application, field wiring conductors shall be rated not less than 35 K above the surrounding air temperature.
4. The flameproof enclosure cannot be repaired.
5. The Series 8530/1-MCB shall be protected from exposure to ultraviolet light.
6. For EPL Gb applications, the Series 8530/1-MCB shall be installed in an increased safety "eb" enclosure.
7. In a 12.5 A application, the maximum rise of this MCB enclosure is 9 K with a limiting temperature in the final application of 110 °C.
8. In a 25 A application, the maximum rise of this MCB enclosure is 26 K with a limiting temperature in the final application of 110 °C.
9. In a 12.5 A application, the maximum rise of this MCB for the determination of temperature class is 30 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °C for T4.
10. In a 25 A application, the maximum rise of this MCB for the determination of temperature class is 40 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °C for T4.
11. The maximum available fault current shall not exceed 25 000 symmetrical amperes.

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8530/1-MCB-STA253N-d25-fg-4. Explosion Protected Circuit Breaker.

FM19ATEX0191U

II 2G Ex db eb IIC Gb

Ts = -40 °C to +70 °C

- d = Tripping characteristic B, C, D, K, or Z.
- f = Accessories 0, 1, 2, 3, 4, 5, or 6.
- g = Accessories 00, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 40, 41, 42, 43, 44, 45, 46, or 50.

Schedule of Limitations:

1. Rated 440Y/254 VAC.
2. In a 12.5 A application, field wiring conductors shall be rated not less than 11 K above the surrounding air temperature.
3. In a 25 A application, field wiring conductors shall be rated not less than 35 K above the surrounding air temperature.
4. The flameproof enclosure cannot be repaired.
5. The Series 8530/1-MCB shall be protected from exposure to ultraviolet light.
6. For EPL Gb applications, the Series 8530/1-MCB shall be installed in an increased safety "eb" enclosure.
7. In a 12.5 A application, the maximum rise of this MCB enclosure is 9 K with a limiting temperature in the final application of 110 °C.
8. In a 25 A application, the maximum rise of this MCB enclosure is 26 K with a limiting temperature in the final application of 110 °C.
9. In a 12.5 A application, the maximum rise of this MCB for the determination of temperature class is 30 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °C for T4.
10. In a 25 A application, the maximum rise of this MCB for the determination of temperature class is 40 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °C for T4.
11. The maximum available fault current shall not exceed 25 000 symmetrical amperes.

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8530/1-MCB-STSb1-de-000-1. Explosion Protected Circuit Breaker.

FM19ATEX0191U

Ex db eb IIC Gb

Ts = -40 °C to +70 °C

b = Short-circuit rating 06 or 10

d = Tripping characteristic B, C, D, K, or Z.

e = Nominal current 0.5, 1, 1.6, 2, 3, 4, 5, 6, 8, 10, 13, 15, 16, 20, 25, 30, 32, or 35.

Schedule of Limitations:

- 1. Rated 230 VAC.**
- 2. In a 17.5 A application, field wiring conductors shall be rated not less than 6 K above the surrounding air temperature.**
- 3. In a 35 A application, field wiring conductors shall be rated not less than 19 K above the surrounding air temperature.**
- 4. The flameproof enclosure cannot be repaired.**
- 5. The Series 8530/1-MCB shall be protected from exposure to ultraviolet light.**
- 6. For EPL Gb applications, the Series 8530/1-MCB shall be installed in an increased safety "eb" enclosure.**
- 7. In a 17.5 A application, the maximum rise of this MCB enclosure is 5 K with a limiting temperature in the final application of 110 °C.**
- 8. In a 35 A application, the maximum rise of this MCB enclosure is 12 K with a limiting temperature in the final application of 110 °C.**
- 9. In a 17.5 A application, the maximum rise of this MCB for the determination of temperature class is 8 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °C for T4.**
- 10. In a 35 A application, the maximum rise of this MCB 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. For b = 06, the maximum available fault current shall not exceed 6 000 symmetrical amperes.**
- 12. For b = 10, the maximum available fault current shall not exceed 10 000 symmetrical amperes.**

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ANNEX A
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8530/1-MCB-STSb1-d40-000-1. Explosion Protected Circuit Breaker.

FM19ATEX0191U

Ex db eb IIC Gb

Ts = -40 °C to +70 °C

b = Short-circuit rating 06 or 10

d = Tripping characteristic B, C, D, K, or Z.

Schedule of Limitations:

- 1. Rated 230 VAC.**
- 2. In a 20 A application, field wiring conductors shall be rated not less than 7 K above the surrounding air temperature.**
- 3. In a 40 A application, field wiring conductors shall be rated not less than 20 K above the surrounding air temperature.**
- 4. The flameproof enclosure cannot be repaired.**
- 5. The Series 8530/1-MCB shall be protected from exposure to ultraviolet light.**
- 6. For EPL Gb applications, the Series 8530/1-MCB shall be installed in an increased safety "eb" enclosure.**
- 7. In a 20 A application, the maximum rise of this MCB enclosure is 6 K with a limiting temperature in the final application of 110 °C.**
- 8. In a 40 A application, the maximum rise of this MCB enclosure is 13 K with a limiting temperature in the final application of 110 °C.**
- 9. In a 20 A application, the maximum rise of this MCB for the determination of temperature class is 7 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °C for T4.**
- 10. In a 40 A application, the maximum rise of this MCB 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. For b = 06, the maximum available fault current shall not exceed 6 000 symmetrical amperes.**
- 12. For b = 10, the maximum available fault current shall not exceed 10 000 symmetrical amperes.**

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8530/1-MCB-STSb1-Ce-000-1. Explosion Protected Circuit Breaker.

FM19ATEX0191U

Ex db eb IIC Gb

Ts = -40 °C to +70 °C

b = Short-circuit rating 06 or 10

e = Nominal current 50 or 63.

Schedule of Limitations:

- 1. Rated 230 VAC.**
- 2. In a 31.5 A application, field wiring conductors shall be rated not less than 10 K above the surrounding air temperature.**
- 3. In a 63 A application, field wiring conductors shall be rated not less than 32 K above the surrounding air temperature.**
- 4. The flameproof enclosure cannot be repaired.**
- 5. The Series 8530/1-MCB shall be protected from exposure to ultraviolet light.**
- 6. For EPL Gb applications, the Series 8530/1-MCB shall be installed in an increased safety "eb" enclosure.**
- 7. In a 31.5 A application, the maximum rise of this MCB enclosure is 7 K with a limiting temperature in the final application of 110 °C.**
- 8. In a 63 A application, the maximum rise of this MCB enclosure is 18 K with a limiting temperature in the final application of 110 °C.**
- 9. In a 31.5 A application, the maximum rise of this MCB for the determination of temperature class is 12 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °C for T4.**
- 10. In a 63 A application, the maximum rise of this MCB for the determination of temperature class is 38 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °C for T4.**
- 11. For b = 06, the maximum available fault current shall not exceed 6 000 symmetrical amperes.**
- 12. For b = 10, the maximum available fault current shall not exceed 10 000 symmetrical amperes.**

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ANNEX A
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8530/1-MCB-STSb1-de-000-1. Explosion Protected Circuit Breaker.

FM19ATEX0191U

Ex db eb IIC Gb

Ts = -40 °C to +70 °C

- b = Short-circuit rating 06 or 10
d = Tripping characteristic B, D, K, or Z.
e = Nominal current 50 or 63.

Schedule of Limitations:

- 1. Rated 230 VAC.**
- 2. In a 31.5 A application, field wiring conductors shall be rated not less than 10 K above the surrounding air temperature.**
- 3. In a 63 A application, field wiring conductors shall be rated not less than 34 K above the surrounding air temperature.**
- 4. The flameproof enclosure cannot be repaired.**
- 5. The Series 8530/1-MCB shall be protected from exposure to ultraviolet light.**
- 6. For EPL Gb applications, the Series 8530/1-MCB shall be installed in an increased safety "eb" enclosure.**
- 7. In a 31.5 A application, the maximum rise of this MCB enclosure is 7 K with a limiting temperature in the final application of 110 °C.**
- 8. In a 63 A application, the maximum rise of this MCB enclosure is 21 K with a limiting temperature in the final application of 110 °C.**
- 9. In a 31.5 A application, the maximum rise of this MCB for the determination of temperature class is 14 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °C for T4.**
- 10. In a 63 A application, the maximum rise of this MCB for the determination of temperature class is 38 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °C for T4.**
- 11. For b = 06, the maximum available fault current shall not exceed 6 000 symmetrical amperes.**
- 12. For b = 10, the maximum available fault current shall not exceed 10 000 symmetrical amperes.**

THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE

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ANNEX A
to EU-Type Examination Certificate No. FM19ATEX0191U

8530/1-MCB-STsb1N-de-fg-h. Explosion Protected Circuit Breaker.

FM19ATEX0191U

II 2G Ex db eb IIC Gb

Ts = -40 °C to +70 °C

- b = Short-circuit rating 06 or 10
- d = Tripping characteristic B, C, D, K, or Z.
- e = Nominal current 0.5, 1, 1.6, 2, 3, 4, 5, 6, 8, 10, 13, 15, 16, 20, 25, 30, 32, or 35.
- f = Accessories 0, 1, 2, 3, 4, 5, or 6.
- g = Accessories 00, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 40, 41, 42, 43, 44, 45, 46, or 50.
- h = Housing size 2, 3 or 4.

Schedule of Limitations:

1. Rated 230 VAC.
2. In a 17.5 A application, field wiring conductors shall be rated not less than 8 K above the surrounding air temperature.
3. In a 35 A application, field wiring conductors shall be rated not less than 24 K above the surrounding air temperature.
4. The flameproof enclosure cannot be repaired.
5. The Series 8530/1-MCB shall be protected from exposure to ultraviolet light.
6. For EPL Gb applications, the Series 8530/1-MCB shall be installed in an increased safety "eb" enclosure.
7. In a 17.5 A application, the maximum rise of this MCB enclosure is 6 K with a limiting temperature in the final application of 110 °C.
8. In a 35 A application, the maximum rise of this MCB enclosure is 15 K with a limiting temperature in the final application of 110 °C.
9. In a 17.5 A application, the maximum rise of this MCB 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.
10. In a 35 A application, the maximum rise of this MCB for the determination of temperature class is 29 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °C for T4.
11. For b = 06, the maximum available fault current shall not exceed 6 000 symmetrical amperes.
12. For b = 10, the maximum available fault current shall not exceed 10 000 symmetrical amperes.

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