



# 1. EU-TYPE EXAMINATION CERTIFICATE

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

3. EU-Type Examination Certificate No: FM24ATEX0008U

4. Component:  
(Type Reference and Name) 8523/1-MCP  
8523/1-MCS  
8523/1-TCP

5. Name of Applicant: R. STAHL Schaltgeräte GmbH

6. Address of Applicant Am Bahnhof 30, D-74638 Waldenburg (Württ.), Germany

7. This component and any acceptable variation thereto is specified in the schedule to this certificate and documents therein referred to.

8. FM Approvals Europe Ltd, notified body number 2809 in accordance with Article 17 of Directive 2014/34/EU of 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

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

PR468697 dated 24 March 2025

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

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

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

Certificate issued by:

Certification Manager, FM Approvals Europe Ltd.

Date 23 October 2025

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

## SCHEDULE

EU-Type Examination Certificate No. FM24ATEX0008U

### 13. Description of Component:

The Series 8523/1 is a series of explosion protected circuit protection devices.

- The 8523/1-MCP is an electronic motor circuit protection device for motors and other loads with high inrush current, rated at 690 VAC and 250 VDC, up to 32 A.
- The 8532/1-MCS is a manual switching device rated up to 690 VAC and 32 A.
- The 8523/1-TCP is an electronic transformer protection device rated up to 690 VAC and 25 A.

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 enclosure has been evaluated for  $-60\text{ }^{\circ}\text{C} \leq T_s \leq +110\text{ }^{\circ}\text{C}$ .

### 14. Schedule of Limitations:

See Annex A for Schedule of Limitations for each type.

### 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 for CE Marking, FM Approvals Europe Ltd accepts no responsibility for the compliance of the equipment against all applicable Directives in all applications.

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

### 17. Schedule Drawings

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

### 18. Certificate History

Details of the supplements to this certificate are described below:

Date	Description
24 March 2025	Original Issue.
23 October 2025	<u>Supplement 1:</u> Report Reference: PR468698 dated 22 October 2025. Description of the Change(s): Drawing updates related to Project ID PR468698 for US and Canada.

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# ANNEX

## 8523/1-TCP

### Component Ratings:

Ex db eb IIC Gb  
Ts = -25 °C to +60 °C

### Description of Component:

#### 8523/1-TCP-GLA1-e-fghU01-Y3. Explosion Protected Transformer Circuit Protector.

- e = Nominal current; 0.16, 0.25, 0.40, 0.63, 1, 1.6, and 2.5.
- f = Auxiliary contacts; 00, H0, H1, H2, H3, S0, S1, S2, C0, C1, or C2.
- g = Auxiliary contacts; 00, H0, H1, H2, H3, S0, S1, or S2.
- h = Undervoltage release or Shunt trip; 000, U00, U01, U02, U03, A01, A02, A03, A04, A05, A06, A07, A08, or A09.
- i = Rotary actuator; Y or N.
- j = Enclosure size 3 or 4.

### Schedule of Limitations:

1. Rated 690 VAC.
2. This Series 8523/1-TCP enclosure has a service temperature range of  $-60\text{ °C} \leq T_s \leq +110\text{ °C}$ .
3. In a 1.25 A application, field wiring conductors shall be rated not less than 9 K above the surrounding air temperature.
4. In a 2.5 A application, field wiring conductors shall be rated not less than 26 K above the surrounding air temperature.
5. The flameproof enclosure cannot be repaired.
6. This Series 8523/1-TCP shall be protected from exposure to ultraviolet light.
7. For EPL Gb applications, this Series 8523/1-TCP shall be installed in an increased safety "eb" enclosure.
8. In a 1.25 A application, the maximum rise of this TCP enclosure is 6 K with a limiting temperature in the final application of 110 °C.
9. In a 2.5 A application, the maximum rise of this TCP enclosure is 15 K with a limiting temperature in the final application of 110 °C.
10. In a 1.25 A application, the maximum rise of this TCP for the determination of temperature class is 10 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °C for T4.
11. In a 2.5 A application, the maximum rise of this TCP 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.

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## SCHEDULE

EU-Type Examination Certificate No. FM24ATEX0008U

### 8523/1-MCP

#### Component Ratings:

Ex db eb IIC Gb  
Ts = -25 °C to +60 °C

#### Description of Component:

##### 8523/1-MCP-GLA1-e-f-g-h-i. Explosion Protected Motor Circuit Protector.

- e = Nominal current; 0.16, 0.25, 0.40, 0.63, 1.0, 1.6, and 2.5.
- f = Accessories; 00, H0, H1, H2, S1, HS, C1, CH, or CS.
- g = Undervoltage release or Shunt trip; 000, U00, U01, U02, U03, A01, A02, A03, A04, A05, A06, A07, A08, or A09.
- h = Rotary actuator; Y or N.
- i = Enclosure size 3 or 4.

#### Schedule of Limitations:

1. Rated 690 VAC and 250 VDC (3-Poles in Series).
2. This Series 8523/1-MCP enclosure has a service temperature range of  $-60\text{ °C} \leq T_s \leq +110\text{ °C}$ .
3. In a 1.25 A application, field wiring conductors shall be rated not less than 9 K above the surrounding air temperature.
4. In a 2.5 A application, field wiring conductors shall be rated not less than 26 K above the surrounding air temperature.
5. The flameproof enclosure cannot be repaired.
6. This Series 8523/1-MCP shall be protected from exposure to ultraviolet light.
7. For EPL Gb applications, this Series 8523/1-MCP shall be installed in an increased safety "eb" enclosure.
8. In a 1.25 A application, the maximum rise of this MCP enclosure is 6 K with a limiting temperature in the final application of 110 °C.
9. In a 2.5 A application, the maximum rise of this MCP enclosure is 26 K with a limiting temperature in the final application of 110 °C.
10. In a 1.25 A application, the maximum rise of this MCP for the determination of temperature class is 10 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °C for T4.
11. In a 2.5 A application, the maximum rise of this MCP 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.

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## SCHEDULE

EU-Type Examination Certificate No. FM24ATEX0008U

### 8523/1-MCP

#### Component Ratings:

Ex db eb IIC Gb  
Ts = -25 °C to +60 °C

#### Description of Component:

##### 8523/1-MCP-GLA1-e-f-g-h-i. Explosion Protected Motor Circuit Protector.

- e = Nominal current; 4.0, 6.3, or 10.  
f = Accessories; 00, H0, H1, H2, S1, HS, C1, CH, or CS.  
g = Undervoltage release or Shunt trip; 000, U00, U01, U02, U03, A01, A02, A03, A04, A05, A06, A07, A08, or A09.  
h = Rotary actuator; Y or N.  
i = Enclosure size 3 or 4.

#### Schedule of Limitations:

1. Rated 690 VAC and 250 VDC (3-Poles in Series).
2. This Series 8523/1-MCP enclosure has a service temperature range of  $-60\text{ °C} \leq T_s \leq +110\text{ °C}$ .
3. In a 5 A application, field wiring conductors shall be rated not less than 9 K above the surrounding air temperature.
4. In a 10 A application, field wiring conductors shall be rated not less than 29 K above the surrounding air temperature.
5. The flameproof enclosure cannot be repaired.
6. This Series 8523/1-MCP shall be protected from exposure to ultraviolet light.
7. For EPL Gb applications, this Series 8523/1-MCP shall be installed in an increased safety "eb" enclosure.
8. In a 5 A application, the maximum rise of this MCP enclosure is 6 K with a limiting temperature in the final application of 110 °C.
9. In a 10 A application, the maximum rise of this MCP enclosure is 21 K with a limiting temperature in the final application of 110 °C.
10. In a 5 A application, the maximum rise of this MCP for the determination of temperature class is 10 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °C for T4.
11. In a 10 A application, the maximum rise of this MCP 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.

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## SCHEDULE

EU-Type Examination Certificate No. FM24ATEX0008U

### 8523/1-MCP

#### Component Ratings:

Ex db eb IIC Gb  
Ts = -25 °C to +60 °C

#### Description of Component:

##### 8523/1-MCP-GLA1-e-f-g-h-i. Explosion Protected Motor Circuit Protector.

- e = Nominal current; 12 or 16.
- f = Accessories; 00, H0, H1, H2, S1, HS, C1, CH, or CS.
- g = Undervoltage release or Shunt trip; 000, U00, U01, U02, U03, A01, A02, A03, A04, A05, A06, A07, A08, or A09.
- h = Rotary actuator; Y or N.
- i = Enclosure size 3 or 4.

#### Schedule of Limitations:

1. Rated 690 VAC and 250 VDC (3-Poles in Series).
2. This Series 8523/1-MCP enclosure has a service temperature range of  $-60\text{ °C} \leq T_s \leq +110\text{ °C}$ .
3. In a 8 A application, field wiring conductors shall be rated not less than 11 K above the surrounding air temperature.
4. In a 16 A application, field wiring conductors shall be rated not less than 35 K above the surrounding air temperature.
5. The flameproof enclosure cannot be repaired.
6. This Series 8523/1-MCP shall be protected from exposure to ultraviolet light.
7. For EPL Gb applications, this Series 8523/1-MCP shall be installed in an increased safety "eb" enclosure.
8. In a 8 A application, the maximum rise of this MCP enclosure is 7 K with a limiting temperature in the final application of 110 °C.
9. In a 16 A application, the maximum rise of this MCP enclosure is 19 K with a limiting temperature in the final application of 110 °C.
10. In a 8 A application, the maximum rise of this MCP 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.
11. In a 16 A application, the maximum rise of this MCP 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.

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## SCHEDULE

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### 8523/1-MCP

#### Component Ratings:

Ex db eb IIC Gb  
Ts = -25 °C to +60 °C

#### Description of Component:

##### 8523/1-MCP-GLA1-e-f-g-h-i. Explosion Protected Motor Circuit Protector.

- e = Nominal current; 20 or 25.
- f = Accessories; 00, H0, H1, H2, S1, HS, C1, CH, or CS.
- g = Undervoltage release or Shunt trip; 000, U00, U01, U02, U03, A01, A02, A03, A04, A05, A06, A07, A08, or A09.
- h = Rotary actuator; Y or N.
- i = Enclosure size 3 or 4.

#### Schedule of Limitations:

1. Rated 690 VAC and 250 VDC (3-Poles in Series).
2. This Series 8523/1-MCP enclosure has a service temperature range of  $-60\text{ °C} \leq T_s \leq +110\text{ °C}$ .
3. In a 12.5 A application, field wiring conductors shall be rated not less than 9 K above the surrounding air temperature.
4. In a 25 A application, field wiring conductors shall be rated not less than 29 K above the surrounding air temperature.
5. The flameproof enclosure cannot be repaired.
6. This Series 8523/1-MCP shall be protected from exposure to ultraviolet light.
7. For EPL Gb applications, this Series 8523/1-MCP shall be installed in an increased safety "eb" enclosure.
8. In a 12.5 A application, the maximum rise of this MCP enclosure is 7 K with a limiting temperature in the final application of 110 °C.
9. In a 25 A application, the maximum rise of this MCP enclosure is 18 K with a limiting temperature in the final application of 110 °C.
10. In a 12.5 A application, the maximum rise of this MCP 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.
11. In a 25 A application, the maximum rise of this MCP for the determination of temperature class is 35 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °C for T4,

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### 8523/1-MCP

#### Component Ratings:

Ex db eb IIC Gb  
Ts = -25 °C to +60 °C

#### Description of Component:

##### 8523/1-MCP-GLA1-e-f-g-h-i. Explosion Protected Motor Circuit Protector.

- e = Nominal current; 32.
- f = Accessories; 00, H0, H1, H2, S1, HS, C1, CH, or CS.
- g = Undervoltage release or Shunt trip; 000, U00, U01, U02, U03, A01, A02, A03, A04, A05, A06, A07, A08, or A09.
- h = Rotary actuator; Y or N.
- i = Enclosure size 3 or 4.

#### Schedule of Limitations:

1. Rated 690 VAC and 250 VDC (3-Poles in Series).
2. This Series 8523/1-MCP enclosure has a service temperature range of  $-60\text{ °C} \leq T_s \leq +110\text{ °C}$ .
3. In a 16 A application, field wiring conductors shall be rated not less than 11 K above the surrounding air temperature.
4. In a 32 A application, field wiring conductors shall be rated not less than 25 K above the surrounding air temperature.
5. The flameproof enclosure cannot be repaired.
6. This Series 8523/1-MCP shall be protected from exposure to ultraviolet light.
7. For EPL Gb applications, this Series 8523/1-MCP shall be installed in an increased safety "eb" enclosure.
8. In a 16 A application, the maximum rise of this MCP enclosure is 11 K with a limiting temperature in the final application of 110 °C.
9. In a 32 A application, the maximum rise of this MCP enclosure is 25 K with a limiting temperature in the final application of 110 °C.
10. In a 16 A application, the maximum rise of this MCP for the determination of temperature class is 24 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °C for T4.
11. In a 32 A application, the maximum rise of this MCP 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.

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## SCHEDULE

EU-Type Examination Certificate No. FM24ATEX0008U

### 8523/1-MCS

#### Component Ratings:

Ex db eb IIC Gb  
Ts = -25 °C to +60 °C

#### Description of Component:

##### 8523/1-MCS-GLA1-e-f-g-h-i. Explosion Protected Magnetic Switch.

- e = Nominal current; 0.16, 0.25, 0.40, 0.63, 1, 1.6, and 2.5.
- f = Accessories; 00, H0, H1, H2, S1, HS, C1, CH, or CS.
- g = Undervoltage release or Shunt trip; 000, U00, U01, U02, U03, A01, A02, A03, A04, A05, A06, A07, A08, or A09.
- h = Rotary actuator; Y or N.
- i = Enclosure size 3 or 4.

#### Schedule of Limitations:

1. Rated 690 VAC.
2. This Series 8523/1-MCS enclosure has a service temperature range of  $-60\text{ °C} \leq T_s \leq +110\text{ °C}$ .
3. In a 1.25 A application, field wiring conductors shall be rated not less than 9 K above the surrounding air temperature.
4. In a 2.5 A application, field wiring conductors shall be rated not less than 26 K above the surrounding air temperature.
5. The flameproof enclosure cannot be repaired.
6. This Series 8523/1-MCS shall be protected from exposure to ultraviolet light.
7. For EPL Gb applications, this Series 8523/1-MCS shall be installed in an increased safety "eb" enclosure.
8. In a 1.25 A application, the maximum rise of this MCS enclosure is 6 K with a limiting temperature in the final application of 110 °C.
9. In a 2.5 A application, the maximum rise of this MCS enclosure is 26 K with a limiting temperature in the final application of 110 °C.
10. In a 1.25 A application, the maximum rise of this MCS for the determination of temperature class is 10 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °C for T4.
11. In a 2.5 A application, the maximum rise of this MCS 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.

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## SCHEDULE

EU-Type Examination Certificate No. FM24ATEX0008U

### 8523/1-MCS

#### Component Ratings:

Ex db eb IIC Gb  
Ts = -25 °C to +60 °C

#### Description of Component:

##### 8523/1-MCS-GLA1-e-f-g-h-i. Explosion Protected Magnetic Switch.

- e = Nominal current; 4.0, 6.3, or 10.
- f = Accessories; 00, H0, H1, H2, S1, HS, C1, CH, or CS.
- g = Undervoltage release or Shunt trip; 000, U00, U01, U02, U03, A01, A02, A03, A04, A05, A06, A07, A08, or A09.
- h = Rotary actuator; Y or N.
- i = Enclosure size 3 or 4.

#### Schedule of Limitations:

1. Rated 690 VAC.
2. This Series 8523/1-MCS enclosure has a service temperature range of  $-60\text{ °C} \leq T_s \leq +110\text{ °C}$ .
3. In a 5 A application, field wiring conductors shall be rated not less than 9 K above the surrounding air temperature.
4. In a 10 A application, field wiring conductors shall be rated not less than 29 K above the surrounding air temperature.
5. The flameproof enclosure cannot be repaired.
6. This Series 8523/1-MCS shall be protected from exposure to ultraviolet light.
7. For EPL Gb applications, this Series 8523/1-MCS shall be installed in an increased safety "eb" enclosure.
8. In a 5 A application, the maximum rise of this MCS enclosure is 6 K with a limiting temperature in the final application of 110 °C.
9. In a 10 A application, the maximum rise of this MCS enclosure is 21 K with a limiting temperature in the final application of 110 °C.
10. In a 5 A application, the maximum rise of this MCS for the determination of temperature class is 10 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °C for T4.
11. In a 10 A application, the maximum rise of this MCS 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.

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## SCHEDULE

EU-Type Examination Certificate No. FM24ATEX0008U

### 8523/1-MCS

#### Component Ratings:

Ex db eb IIC Gb  
Ts = -25 °C to +60 °C

#### Description of Component:

##### 8523/1-MCS-GLA1-e-f-g-h-i. Explosion Protected Magnetic Switch.

- e = Nominal current; 12 or 16.
- f = Accessories; 00, H0, H1, H2, S1, HS, C1, CH, or CS.
- g = Undervoltage release or Shunt trip; 000, U00, U01, U02, U03, A01, A02, A03, A04, A05, A06, A07, A08, or A09.
- h = Rotary actuator; Y or N.
- i = Enclosure size 3 or 4.

#### Schedule of Limitations:

1. Rated 690 VAC.
2. This Series 8523/1-MCS enclosure has a service temperature range of  $-60\text{ °C} \leq T_s \leq +110\text{ °C}$ .
3. In a 8 A application, field wiring conductors shall be rated not less than 11 K above the surrounding air temperature.
4. In a 16 A application, field wiring conductors shall be rated not less than 35 K above the surrounding air temperature.
5. The flameproof enclosure cannot be repaired.
6. This Series 8523/1-MCS shall be protected from exposure to ultraviolet light.
7. For EPL Gb applications, this Series 8523/1-MCS shall be installed in an increased safety "eb" enclosure.
8. In a 8 A application, the maximum rise of this MCS enclosure is 7 K with a limiting temperature in the final application of 110 °C.
9. In a 16 A application, the maximum rise of this MCS enclosure is 19 K with a limiting temperature in the final application of 110 °C.
10. In a 8 A application, the maximum rise of this MCS 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.
11. In a 16 A application, the maximum rise of this MCS 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.

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## SCHEDULE

EU-Type Examination Certificate No. FM24ATEX0008U

### 8523/1-MCS

#### Component Ratings:

Ex db eb IIC Gb  
Ts = -25 °C to +60 °C

#### Description of Component:

##### 8523/1-MCS-GLA1-e-f-g-h-i. Explosion Protected Magnetic Switch.

- e = Nominal current; 20 or 25.  
f = Accessories; 00, H0, H1, H2, S1, HS, C1, CH, or CS.  
g = Undervoltage release or Shunt trip; 000, U00, U01, U02, U03, A01, A02, A03, A04, A05, A06, A07, A08, or A09.  
h = Rotary actuator; Y or N.  
i = Enclosure size 3 or 4.

#### Schedule of Limitations:

1. Rated 690 VAC.
2. This Series 8523/1-MCS enclosure has a service temperature range of  $-60\text{ °C} \leq T_s \leq +110\text{ °C}$ .
3. In a 12.5 A application, field wiring conductors shall be rated not less than 9 K above the surrounding air temperature.
4. In a 25 A application, field wiring conductors shall be rated not less than 29 K above the surrounding air temperature.
5. The flameproof enclosure cannot be repaired.
6. This Series 8523/1-MCS shall be protected from exposure to ultraviolet light.
7. For EPL Gb applications, this Series 8523/1-MCS shall be installed in an increased safety "eb" enclosure.
8. In a 12.5 A application, the maximum rise of this MCS enclosure is 7 K with a limiting temperature in the final application of 110 °C.
9. In a 25 A application, the maximum rise of this MCS enclosure is 18 K with a limiting temperature in the final application of 110 °C.
10. In a 12.5 A application, the maximum rise of this MCS 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.
11. In a 25 A application, the maximum rise of this MCS for the determination of temperature class is 35 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °C for T4.

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## SCHEDULE

EU-Type Examination Certificate No. FM24ATEX0008U

### 8523/1-MCS

#### Component Ratings:

Ex db eb IIC Gb  
Ts = -25 °C to +60 °C

#### Description of Component:

##### 8523/1-MCS-GLA1-e-f-g-h-i. Explosion Protected Magnetic Switch.

- e = Nominal current; 32.
- f = Accessories; 00, H0, H1, H2, S1, HS, C1, CH, or CS.
- g = Undervoltage release or Shunt trip; 000, U00, U01, U02, U03, A01, A02, A03, A04, A05, A06, A07, A08, or A09.
- h = Rotary actuator; Y or N.
- i = Enclosure size 3 or 4.

#### Schedule of Limitations:

1. Rated 690 VAC.
2. This Series 8523/1-MCS enclosure has a service temperature range of  $-60\text{ °C} \leq T_s \leq +110\text{ °C}$ .
3. In a 16.5 A application, field wiring conductors shall be rated not less than 10 K above the surrounding air temperature.
4. In a 32 A application, field wiring conductors shall be rated not less than 34 K above the surrounding air temperature.
5. The flameproof enclosure cannot be repaired.
6. This Series 8523/1-MCS shall be protected from exposure to ultraviolet light.
7. For EPL Gb applications, this Series 8523/1-MCS shall be installed in an increased safety "eb" enclosure.
8. In a 16 A application, the maximum rise of this MCS enclosure is 8 K with a limiting temperature in the final application of 110 °C.
9. In a 32 A application, the maximum rise of this MCS enclosure is 22 K with a limiting temperature in the final application of 110 °C.
10. In a 16 A application, the maximum rise of this MCS for the determination of temperature class is 24 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °C for T4.
11. In a 32 A application, the maximum rise of this MCS 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.

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## SCHEDULE

EU-Type Examination Certificate No. FM24ATEX0008U

### 8523/1-TCP

#### Component Ratings:

Ex db eb IIC Gb  
Ts = -25 °C to +60 °C

#### Description of Component:

##### 8523/1-TCP-GLA1-e-f-g-h-i. Explosion Protected Transformer Circuit Protector.

- e = Nominal current; 0.16, 0.25, 0.40, 0.63, 1, 1.6, and 2.5.  
f = Accessories; 00, H0, H1, H2, S1, HS, C1, CH, or CS.  
g = Undervoltage release or Shunt trip; 000, U00, U01, U02, U03, A01, A02, A03, A04, A05, A06, A07, A08, or A09.  
h = Rotary actuator; Y or N.  
i = Enclosure size 3 or 4.

#### Schedule of Limitations:

1. Rated 690 VAC.
2. This Series 8523/1-TCP enclosure has a service temperature range of  $-60\text{ °C} \leq T_s \leq +110\text{ °C}$ .
3. In a 1.25 A application, field wiring conductors shall be rated not less than 9 K above the surrounding air temperature.
4. In a 2.5 A application, field wiring conductors shall be rated not less than 26 K above the surrounding air temperature.
5. The flameproof enclosure cannot be repaired.
6. This Series 8523/1-TCP shall be protected from exposure to ultraviolet light.
7. For EPL Gb applications, this Series 8523/1-TCP shall be installed in an increased safety "eb" enclosure.
8. In a 1.25 A application, the maximum rise of this TCP enclosure is 6 K with a limiting temperature in the final application of 110 °C.
9. In a 2.5 A application, the maximum rise of this TCP enclosure is 15 K with a limiting temperature in the final application of 110 °C.
10. In a 1.25 A application, the maximum rise of this TCP for the determination of temperature class is 10 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °C for T4.
11. In a 2.5 A application, the maximum rise of this TCP 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.

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

## SCHEDULE

EU-Type Examination Certificate No. FM24ATEX0008U

**FM Approvals**

### 8523/1-TCP

#### Component Ratings:

Ex db eb IIC Gb  
Ts = -25 °C to +60 °C

#### Description of Component:

##### 8523/1-TCP-GLA1-e-f-g-h-i. Explosion Protected Transformer Circuit Protector.

- e = Nominal current; 4, 6.3, or 10.
- f = Accessories; 00, H0, H1, H2, S1, HS, C1, CH, or CS.
- g = Undervoltage release or Shunt trip; 000, U00, U01, U02, U03, A01, A02, A03, A04, A05, A06, A07, A08, or A09.
- h = Rotary actuator; Y or N.
- i = Enclosure size 3 or 4.

#### Schedule of Limitations:

1.
  1. Rated 690 VAC.
  2. This Series 8523/1-TCP enclosure has a service temperature range of  $-60\text{ °C} \leq T_s \leq +110\text{ °C}$ .
  3. In a 5 A application, field wiring conductors shall be rated not less than 9 K above the surrounding air temperature.
  4. In a 10 A application, field wiring conductors shall be rated not less than 29 K above the surrounding air temperature.
  5. The flameproof enclosure cannot be repaired.
  6. This Series 8523/1-TCP shall be protected from exposure to ultraviolet light.
  7. For EPL Gb applications, this Series 8523/1-TCP shall be installed in an increased safety "eb" enclosure.
  8. In a 5 A application, the maximum rise of this TCP enclosure is 6 K with a limiting temperature in the final application of 110 °C.
  9. In a 10 A application, the maximum rise of this TCP enclosure is 21 K with a limiting temperature in the final application of 110 °C.
  10. In a 5 A application, the maximum rise of this TCP for the determination of temperature class is 10 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °C for T4.
  11. In a 10 A application, the maximum rise of this TCP 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.

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## SCHEDULE

EU-Type Examination Certificate No. FM24ATEX0008U

### 8523/1-TCP

#### Component Ratings:

Ex db eb IIC Gb  
Ts = -25 °C to +60 °C

#### Description of Component:

##### 8523/1-TCP-GLA1-e-f-g-h-i. Explosion Protected Transformer Circuit Protector.

- e = Nominal current; 12 or 16.
- f = Accessories; 00, H0, H1, H2, S1, HS, C1, CH, or CS.
- g = Undervoltage release or Shunt trip; 000, U00, U01, U02, U03, A01, A02, A03, A04, A05, A06, A07, A08, or A09.
- h = Rotary actuator; Y or N.
- i = Enclosure size 3 or 4.

#### Schedule of Limitations:

1. Rated 690 VAC.
2. This Series 8523/1-TCP enclosure has a service temperature range of  $-60\text{ °C} \leq T_s \leq +110\text{ °C}$ .
3. In a 8 A application, field wiring conductors shall be rated not less than 11 K above the surrounding air temperature.
4. In a 16 A application, field wiring conductors shall be rated not less than 35 K above the surrounding air temperature.
5. The flameproof enclosure cannot be repaired.
6. This Series 8523/1-TCP shall be protected from exposure to ultraviolet light.
7. For EPL Gb applications, this Series 8523/1-TCP shall be installed in an increased safety "eb" enclosure.
8. In a 8 A application, the maximum rise of this TCP enclosure is 7 K with a limiting temperature in the final application of 110 °C.
9. In a 16 A application, the maximum rise of this TCP enclosure is 16 K with a limiting temperature in the final application of 110 °C.
10. In a 8 A application, the maximum rise of this TCP 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.
11. In a 16 A application, the maximum rise of this TCP 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.

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## SCHEDULE

EU-Type Examination Certificate No. FM24ATEX0008U

### 8523/1-TCP

#### Component Ratings:

Ex db eb IIC Gb  
Ts = -25 °C to +60 °C

#### Description of Component:

##### 8523/1-TCP-GLA1-e-f-g-h-i. Explosion Protected Transformer Circuit Protector.

- e = Nominal current; 20 or 25.  
f = Accessories; 00, H0, H1, H2, S1, HS, C1, CH, or CS.  
g = Undervoltage release or Shunt trip; 000, U00, U01, U02, U03, A01, A02, A03, A04, A05, A06, A07, A08, or A09.  
h = Rotary actuator; Y or N.  
i = Enclosure size 3 or 4.

#### Schedule of Limitations:

1. Rated 690 VAC.
2. This Series 8523/1-TCP enclosure has a service temperature range of  $-60\text{ °C} \leq T_s \leq +110\text{ °C}$ .
3. In a 12.5 A application, field wiring conductors shall be rated not less than 9 K above the surrounding air temperature.
4. In a 25 A application, field wiring conductors shall be rated not less than 29 K above the surrounding air temperature.
5. The flameproof enclosure cannot be repaired.
6. This Series 8523/1-TCP shall be protected from exposure to ultraviolet light.
7. For EPL Gb applications, this Series 8523/1-TCP shall be installed in an increased safety "eb" enclosure.
8. In a 12.5 A application, the maximum rise of this TCP enclosure is 7 K with a limiting temperature in the final application of 110 °C.
9. In a 25 A application, the maximum rise of this TCP enclosure is 18 K with a limiting temperature in the final application of 110 °C.
10. In a 12.5 A application, the maximum rise of this TCP 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.
11. In a 25 A application, the maximum rise of this TCP for the determination of temperature class is 35 K with a limiting temperature in the final application of 80 °C for T6, 95 °C for T5, or 130 °C for T4.

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# Blueprint Report

**R STAHL SCHALTGERAETE GmbH 100000917**

**Class No. 3619**

**Original Project I.D. 468690**

**Certificate I.D. FM24ATEX0008U**

<u>Drawing No.</u>	<u>Revision Level</u>	<u>Drawing Title</u>	<u>Last Report</u>
85 236 01 86 0	00	Internal testing procedure	PR468690
8523 0 000 050	01	Description	PR468698
8523 0 000 050 - Annex A	01	Electrical Data	PR468698
8523 0 000 050 - Annex B	00	Material Data	PR468690
8523 0 000 051 0	00	General Arrangement 3-Pole	PR468690
8523 0 000 052 0	01	8523 IOM Required Information	PR468698
8523 0 000 052 0 - Annex A	01	Electrical Data	PR468698
8523 0 000 053 0	01	General Arrangement 4-Pole	PR468690
8523 0 000 054 0	01	Label Details	PR468698