

CERTIFICATE OF CONFORMITY

1. HAZARDOUS LOCATION COMPONENT PER CANADIAN REQUIREMENTS

2. **Certificate No:** FM24CA0066U
3. **Component:** Series 8523 Explosion-Protected Circuit Protection Device
(Type Reference and Name)
4. **Name of Listing Company:** R. STAHL Schaltgeräte GmbH
5. **Address of Listing Company:** Am Bahnhof 30, D-74638 Waldenburg (Württ.), Germany

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

PR468698 dated 22 October 2025

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

CSA C22.2 No. 213:2017 (R2022), CSA C22.2 No. 60079-0:2019 (R2024),
CSA C22.2 No. 60079-1:2016 (R2021), CSA C22.2 No. 60079-7:2018, CSA C22.2 No. 60947-1:2022,
CSA C22.2 No. 60947-4-1:2018

8. The sign 'U' placed after the certificate number indicates that this certificate must not be mistaken for a certificate for equipment or a protective system. This certificate may only be used as the basis for the certification of equipment or a protective system. This certificate is issued to the manufacturer also intended to be the holder of the equipment certificate which includes this component.
9. This certificate relates to the design, examination and testing of the products specified herein. The FM Approvals surveillance audit program has further determined that the manufacturing processes and quality control procedures in place are satisfactory to manufacture the product as examined, tested and Approved.

10. **Component Ratings:**

Refer to Annex

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

Refer to Annex

12. **Description of Component:**

Certificate issued by:



J.E. Marquedant
VP, Manager - Electrical Systems

22 October 2025

Date

To verify the availability of the Approved product, please refer to www.approvalguide.com

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FM Approvals LLC. One Technology Way, Norwood, MA 02062 USA
T: +1 (1) 781 762 4300 F: +1 (1) 781 762 9375 E-mail: information@fmapprovals.com www.fmapprovals.com

F 331 (Jul 24)



SCHEDULE

Canadian Certificate of Conformity No: FM24CA0066U

The Explosion-protected Series 8523/1-MCP is an electronic motor circuit protection device for motors and other loads with high inrush current up to 480 VACRMS or 250 VDC, 600Y/347 VAC and 32 A.

The Explosion-protected Series 8523/1-MCS is a manual switching device rated up to 480 V AC, 600Y/347 VAC and 32A.

The Explosion-protected Series 8523/1-TCP is an electronic transformer protection device rated up to 480 V AC and for currents up to 25 A.

Industrial molded case devices, manufactured by ABB, are built into flameproof enclosure with increased safety external terminals. The enclosure is certified as an Ex Component enclosure per IECEx FMG 18.0024U.

The manufacturer has advised that the molded case circuit protection devices are in accordance with EN 60947-1 and EN 60947-2.

For application in locations requiring Gb equipment, the connections to the Series 8523/1 are intended to be made only in an increased safety "eb" enclosure using increased safety "eb" termination methods.

13. Schedule of Limitations:

Refer to Annex

14. Test and Assessment Procedure and Conditions:

This Certificate has been issued in accordance with FM Approvals Canadian Certification Scheme.

15. Schedule Drawings

A copy of the technical documentation has been kept by FM Approvals.

16. Certificate History

Details of the supplements to this certificate are described below:

Date	Description
22 October 2025	Original Issue.

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ANNEX

8523/1-MCP 2.5 A

Component Ratings:

Nonincendive for Class I, Division 2, Groups A, B, C and D; Flameproof with Increased Safety Ex db eb IIC Gb hazardous locations

Markings:

Ex db eb IIC Gb
Class I, Division 2, Groups A,B,C&D
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 480 VAC + 600Y/347 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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12. The maximum available fault current shall not exceed 10 000 symmetrical amperes.



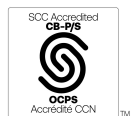
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SCHEDULE

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FM Approvals

8523/1-MCP 10 A

Component Ratings:

Nonincendive for Class I, Division 2, Groups A, B, C and D; Flameproof with Increased Safety Ex db eb IIC Gb hazardous locations

Markings:

Ex db eb IIC Gb
Class I, Division 2, Groups A,B,C&D
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 480 VAC + 600Y/347 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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12. The maximum available fault current shall not exceed 10 000 symmetrical amperes.



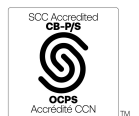
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FM Approvals

8523/1-MCP 16 A

Component Ratings:

Nonincendive for Class I, Division 2, Groups A, B, C and D; Flameproof with Increased Safety Ex db eb IIC Gb hazardous locations

Markings:

Ex db eb IIC Gb
Class I, Division 2, Groups A,B,C&D
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 480 VAC and 250 VDC (3-Poles in Series).
2. For 600Y/347 VAC applications, refer to fuse requirements.
3. This Series 8523/1-MCP enclosure has a service temperature range of $-60\text{ °C} \leq T_s \leq +110\text{ °C}$.
4. In a 8 A application, field wiring conductors shall be rated not less than 11 K above the surrounding air temperature.
5. In a 16 A application, field wiring conductors shall be rated not less than 35 K above the surrounding air temperature.
6. The flameproof enclosure cannot be repaired.
7. This Series 8523/1-MCP shall be protected from exposure to ultraviolet light.
8. For EPL Gb applications, this Series 8523/1-MCP shall be installed in an increased safety "eb" enclosure.
9. 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.
10. 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.
11. 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.
12. 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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13. The maximum available fault current shall not exceed 10 000 symmetrical amperes.



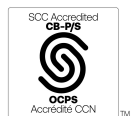
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SCHEDULE

Canadian Certificate of Conformity No: FM24CA0066U

FM Approvals

8523/1-MCP 25 A

Component Ratings:

Nonincendive for Class I, Division 2, Groups A, B, C and D; Flameproof with Increased Safety Ex db eb IIC Gb hazardous locations

Markings:

Ex db eb IIC Gb
Class I, Division 2, Groups A,B,C&D
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 480 VAC and 250 VDC (3-Poles in Series).
2. For 600Y/347 VAC applications, refer to fuse requirements.
3. This Series 8523/1-MCP enclosure has a service temperature range of $-60\text{ °C} \leq T_s \leq +110\text{ °C}$.
4. In a 12.5 A application, field wiring conductors shall be rated not less than 9 K above the surrounding air temperature.
5. In a 25 A application, field wiring conductors shall be rated not less than 29 K above the surrounding air temperature.
6. The flameproof enclosure cannot be repaired.
7. This Series 8523/1-MCP shall be protected from exposure to ultraviolet light.
8. For EPL Gb applications, this Series 8523/1-MCP shall be installed in an increased safety "eb" enclosure.
9. 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.
10. 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.
11. 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.
12. 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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13. The maximum available fault current shall not exceed 10 000 symmetrical amperes.



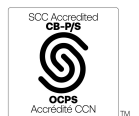
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SCHEDULE

Canadian Certificate of Conformity No: FM24CA0066U

FM Approvals

8523/1-MCP 32 A

Component Ratings:

Nonincendive for Class I, Division 2, Groups A, B, C and D; Flameproof with Increased Safety Ex db eb IIC Gb hazardous locations

Markings:

Ex db eb IIC Gb
Class I, Division 2, Groups A,B,C&D
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 480 VAC and 250 VDC (3-Poles in Series).
2. For 600Y/347 VAC applications, refer to fuse requirements.
3. This Series 8523/1-MCP enclosure has a service temperature range of $-60\text{ °C} \leq T_s \leq +110\text{ °C}$.
4. In a 16 A application, field wiring conductors shall be rated not less than 11 K above the surrounding air temperature.
5. In a 32 A application, field wiring conductors shall be rated not less than 25 K above the surrounding air temperature.
6. The flameproof enclosure cannot be repaired.
7. This Series 8523/1-MCP shall be protected from exposure to ultraviolet light.
8. For EPL Gb applications, this Series 8523/1-MCP shall be installed in an increased safety "eb" enclosure.
9. 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.
10. 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.
11. 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.
12. 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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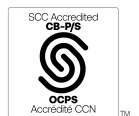
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SCHEDULE

Canadian Certificate of Conformity No: FM24CA0066U

FM Approvals

8523/1-MCS 2.5 A

Component Ratings:

Nonincendive for Class I, Division 2, Groups A, B, C and D; Flameproof with Increased Safety Ex db eb IIC Gb hazardous locations

Markings:

Ex db eb IIC Gb
Class I, Division 2, Groups A,B,C&D
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 480 VAC + 600Y/347 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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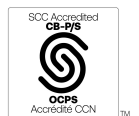
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FM Approvals

8523/1-MCS 10 A

Component Ratings:

Nonincendive for Class I, Division 2, Groups A, B, C and D; Flameproof with Increased Safety Ex db eb IIC Gb hazardous locations

Markings:

Ex db eb IIC Gb
Class I, Division 2, Groups A,B,C&D
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 480 VAC + 600Y/347 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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12. The maximum available fault current shall not exceed 10 000 symmetrical amperes.



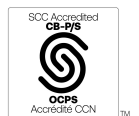
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FM Approvals

8523/1-MCS 16 A

Component Ratings:

Nonincendive for Class I, Division 2, Groups A, B, C and D; Flameproof with Increased Safety Ex db eb IIC Gb hazardous locations

Markings:

Ex db eb IIC Gb
Class I, Division 2, Groups A,B,C&D
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 480 VAC.
2. For 600Y/347 VAC applications, refer to fuse requirements.
3. This Series 8523/1-MCS enclosure has a service temperature range of $-60\text{ °C} \leq T_s \leq +110\text{ °C}$.
4. In a 8 A application, field wiring conductors shall be rated not less than 11 K above the surrounding air temperature.
5. In a 16 A application, field wiring conductors shall be rated not less than 35 K above the surrounding air temperature.
6. The flameproof enclosure cannot be repaired.
7. This Series 8523/1-MCS shall be protected from exposure to ultraviolet light.
8. For EPL Gb applications, this Series 8523/1-MCS shall be installed in an increased safety "eb" enclosure.
9. 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.
10. 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.
11. 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.
12. 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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13. The maximum available fault current shall not exceed 10 000 symmetrical amperes.



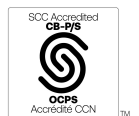
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SCHEDULE

Canadian Certificate of Conformity No: FM24CA0066U

FM Approvals

8523/1-MCS 25 A

Component Ratings:

Nonincendive for Class I, Division 2, Groups A, B, C and D; Flameproof with Increased Safety Ex db eb IIC Gb hazardous locations

Markings:

Ex db eb IIC Gb
Class I, Division 2, Groups A,B,C&D
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 480 VAC.
2. For 600Y/347 VAC applications, refer to fuse requirements.
3. This Series 8523/1-MCS enclosure has a service temperature range of $-60\text{ °C} \leq T_s \leq +110\text{ °C}$.
4. In a 12.5 A application, field wiring conductors shall be rated not less than 9 K above the surrounding air temperature.
5. In a 25 A application, field wiring conductors shall be rated not less than 29 K above the surrounding air temperature.
6. The flameproof enclosure cannot be repaired.
7. This Series 8523/1-MCS shall be protected from exposure to ultraviolet light.
8. For EPL Gb applications, this Series 8523/1-MCS shall be installed in an increased safety "eb" enclosure.
9. 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.
10. 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.
11. 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.
12. 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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13. The maximum available fault current shall not exceed 10 000 symmetrical amperes.



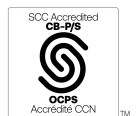
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SCHEDULE

Canadian Certificate of Conformity No: FM24CA0066U

FM Approvals

8523/1-MCS 32 A

Component Ratings:

Nonincendive for Class I, Division 2, Groups A, B, C and D; Flameproof with Increased Safety Ex db eb IIC Gb hazardous locations

Markings:

Ex db eb IIC Gb
Class I, Division 2, Groups A,B,C&D
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 480 VAC.
2. For 600Y/347 VAC applications, refer to fuse requirements.
3. This Series 8523/1-MCS enclosure has a service temperature range of $-60\text{ °C} \leq T_s \leq +110\text{ °C}$.
4. In a 16.5 A application, field wiring conductors shall be rated not less than 10 K above the surrounding air temperature.
5. In a 32 A application, field wiring conductors shall be rated not less than 34 K above the surrounding air temperature.
6. The flameproof enclosure cannot be repaired.
7. This Series 8523/1-MCS shall be protected from exposure to ultraviolet light.
8. For EPL Gb applications, this Series 8523/1-MCS shall be installed in an increased safety "eb" enclosure.
9. 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.
10. 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.
11. 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.
12. 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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13. The maximum available fault current shall not exceed 10 000 symmetrical amperes.



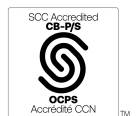
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SCHEDULE

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FM Approvals

8523/1-TCP 2.5 A

Component Ratings:

Nonincendive for Class I, Division 2, Groups A, B, C and D; Flameproof with Increased Safety Ex db eb IIC Gb hazardous locations

Markings:

Ex db eb IIC Gb
Class I, Division 2, Groups A,B,C&D
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 480 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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12. The maximum available fault current shall not exceed 10 000 symmetrical amperes.



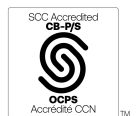
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SCHEDULE

Canadian Certificate of Conformity No: FM24CA0066U

FM Approvals

8523/1-TCP 10 A

Component Ratings:

Nonincendive for Class I, Division 2, Groups A, B, C and D; Flameproof with Increased Safety Ex db eb IIC Gb hazardous locations

Markings:

Ex db eb IIC Gb
Class I, Division 2, Groups A,B,C&D
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 480 VAC + 600Y/347 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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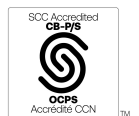
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FM Approvals

8523/1-TCP 16 A

Component Ratings:

Nonincendive for Class I, Division 2, Groups A, B, C and D; Flameproof with Increased Safety Ex db eb IIC Gb hazardous locations

Markings:

Ex db eb IIC Gb
Class I, Division 2, Groups A,B,C&D
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 480 VAC.
2. For 600Y/347 VAC applications, refer to fuse requirements.
3. This Series 8523/1-TCP enclosure has a service temperature range of $-60\text{ °C} \leq T_s \leq +110\text{ °C}$.
4. In a 8 A application, field wiring conductors shall be rated not less than 11 K above the surrounding air temperature.
5. In a 16 A application, field wiring conductors shall be rated not less than 35 K above the surrounding air temperature.
6. The flameproof enclosure cannot be repaired.
7. This Series 8523/1-TCP shall be protected from exposure to ultraviolet light.
8. For EPL Gb applications, this Series 8523/1-TCP shall be installed in an increased safety "eb" enclosure.
9. 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.
10. 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.
11. 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.
12. 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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13. The maximum available fault current shall not exceed 10 000 symmetrical amperes.



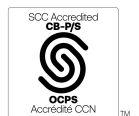
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FM Approvals

8523/1-TCP 25 A

Component Ratings:

Nonincendive for Class I, Division 2, Groups A, B, C and D; Flameproof with Increased Safety for Ex db eb IIC Gb hazardous locations

Markings:

Ex db eb IIC Gb
Class I, Division 2, Groups A,B,C&D
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 480 VAC.
2. For 600Y/347 VAC applications, refer to fuse requirements.
3. This Series 8523/1-TCP enclosure has a service temperature range of $-60\text{ °C} \leq T_s \leq +110\text{ °C}$.
4. In a 12.5 A application, field wiring conductors shall be rated not less than 9 K above the surrounding air temperature.
5. In a 25 A application, field wiring conductors shall be rated not less than 29 K above the surrounding air temperature.
6. The flameproof enclosure cannot be repaired.
7. This Series 8523/1-TCP shall be protected from exposure to ultraviolet light.
8. For EPL Gb applications, this Series 8523/1-TCP shall be installed in an increased safety "eb" enclosure.
9. 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.
10. 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.
11. 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.
12. 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.
13. The maximum available fault current shall not exceed 10 000 symmetrical amperes.

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