

CERTIFICATE OF CONFORMITY



1. **HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT PER US REQUIREMENTS**
2. **Certificate No:** FM20US0116X
3. **Component:** Series 8570/21. SolConeX Receptacle.
(Type Reference and Name)
4. **Name of Listing Company:** R STAHL Schaltgeräte GmbH
5. **Address of Listing Company:** Am Bahnhof 30
74638 Waldenburg
GERMANY
6. The examination and test results are recorded in confidential report number:

PR454809 dated 13th April 2021
7. FM Approvals LLC, certifies that the equipment described has been found to comply with the following Approval standards and other documents:

FM Approvals Class 3600:2018, FM Approvals Class 3611:2018, FM Approvals Class 3616:2011, ANSI/UL 60079-0:2019, ANSI/UL 60079-1:2015, ANSI/UL 60079-7:2015, ANSI/UL 60079-31:2015, ANSI/UL 486E:2017, ANSI/UL 508:2008, ANSI/UL 50:2020, and ANSI/UL 50E:2020
8. If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to specific conditions of use specified in the schedule to this certificate.
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.

Certificate issued by:



J.E. Marquedant
VP, Manager - Electrical Systems

13 April 2021

Date

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

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

FM Approvals LLC. 1151 Boston-Providence Turnpike, Norwood, MA 02062 USA
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SCHEDULE



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10. Equipment Ratings:

Series 8570/21:

Class I, Zone 1, AEx db eb IIC T6...T5 Gb Ta = -50 °C to +65 °C
Zone 21 AEx tb IIIC T80 °C Db Ta = -50 °C to +65 °C
Class I, Division 2, Groups A, B, C, D, T6...T5 Ta = -50 °C to +65 °C
Class II, III, Division 1, Groups E, F, G, T6...T5 Ta = -50 °C to +65 °C
Type 3, 4, 4X

Ambient temperature rating – Although the standard ambient temperature range marking for the product is -50 °C ≤ Ta < +65 °C, it may be further restricted as follows:

-5 °C ≤ Ta < +40 °C	When DP-E4 EP blanking elements are employed.
-50 °C ≤ Ta < +60 °C	When adhesive-attached metal nameplates are employed.
-50 °C ≤ Ta < +60 °C	When auxiliary contact terminal block is employed.

The application of the product at a particular current with a desired temperature class of either T5 or T6, may further limit the maximum ambient temperature in which the product can be applied. Full details on establishing the maximum ambient are included in the instructions.

11. The marking of the equipment shall include:

Hazardous location ratings per Section 12
Ambient temperature rating
Manufacturer's name and address
Type number
Date Code
Electrical ratings

12. **Description of Equipment:**

The Series 8570/21 Receptacle is intended only for connection to the Series 8570/22 Plug. The Series 8570/21 Receptacle is available with 3, 4, and 5 Pole constructions with rated voltages up to 600 VAC, and ratings up to 20 A and 15 hp. Auxiliary contact blocks 85 708 05 76 0 and 85 708 06 76 0 have an A600 control circuit rating. Contact blocks 85 708 07 76 0 and 85 708 08 76 0 are suitable for use as "Simple Apparatus" in Intrinsically Safe Circuits.

8570/21-a. SolConeX Receptacle.

FM20US0116X

I / 1 / AEx db eb / IIC / T6...T5 Gb Ta = -50°C to +65 °C
21 / AEx tb / IIIC / T80°C / Db Ta = -50°C to +65°C
S / I / 2 / ABCD / T6...T5 Ta = -50°C to +65 °C
DIP / II, III / 1 / EFG / T6...T5 Ta = -50°C to +65 °C
Type 3, 4, 4X

85 708 05 76 0. Optional Auxiliary contact block NC — 85 706 07 30 0
85 708 06 76 0. Optional Auxiliary contact block NO — 85 706 07 30 0
85 708 07 76 0. Optional Auxiliary contact block NC for I.S. circuit — 85 706 07 30 0
85 708 08 76 0. Optional Auxiliary contact block NO for I.S. circuit — 85 706 07 30 0

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a = Configuration 302, 303, 304, 305, 306, 307, 309, 310, 402, 403, 404, 405, 406, 407, 409, 410, 411, 412, 502, 503, 504, 505, 506, 507, 509, 510, and 511.

Ambient temperature rating – Although the standard ambient temperature range marking for the product is $-50\text{ }^{\circ}\text{C} \leq T_a < +65\text{ }^{\circ}\text{C}$, it may be further restricted as follows:

- | | |
|--|---|
| $-5\text{ }^{\circ}\text{C} \leq T_a < +40\text{ }^{\circ}\text{C}$ | When DP-E4 EP blanking elements are employed. |
| $-50\text{ }^{\circ}\text{C} \leq T_a < +60\text{ }^{\circ}\text{C}$ | When adhesive-attached metal nameplates are employed. |
| $-50\text{ }^{\circ}\text{C} \leq T_a < +60\text{ }^{\circ}\text{C}$ | When auxiliary contact terminal block is employed. |

The application of the product at a particular current with a desired temperature class of either T5 or T6, may further limit the maximum ambient temperature in which the product can be applied. Full details on establishing the maximum ambient are included in the instructions.

13. Specific Conditions of Use:

1. The receptacle shall not be applied in an explosive dust atmosphere where high electrostatic charging processes are present that could result in propagating brush discharges. See IEC TS60079-32-1 for additional guidance.
2. Receptacle protective cap shall be tight when plug is not inserted.
3. Receptacle is suitable for connection to a 8570/22 plug of the same configuration and electrical ratings
4. The flameproof joints cannot be repaired.

14. Test and Assessment Procedure and Conditions:

This Certificate has been issued in accordance with FM Approvals US Certification Requirements.

15. Schedule Drawings

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

16. Certificate History

Details of the supplements to this certificate are described below:

Date	Description
13 th April 2021	Original Issue.

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