



# CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

No.: 2020312308000043

**Applicant** R. STAHL Schaltgeräte GmbH  
**Address** Am Bahnhof 30, 74638 Waldenburg, Germany  
**Manufacturer** R. STAHL Schaltgeräte GmbH  
**Address** Am Bahnhof 30, 74638 Waldenburg, Germany  
**Production Factory** R. STAHL Schaltgeräte GmbH  
**Production Address** Am Bahnhof 30, 74638 Waldenburg, Germany  
**Product** Flange Socket  
**Model/Type** 8573/\*5-\*\*\*-\*  
**Ex marking** Ex db eb IIC Gb, Ex tb IIIC Db  
**Reference Standards** GB/T 3836.1-2021, GB/T 3836.2-2021, GB/T 3836.3-2021,  
GB/T 3836.31-2021

**Certification mode** Type Test + Initial Factory Inspection + Post-Certification Surveillance

The product(s) is verified and certified according to CNCA-C23-01: 2019 *China Compulsory Certification Implementation Rule on Explosion Protected Electrical Product* and CNEC-C2301-2019 *Guideline of China Compulsory Certification Implementation Rule on Explosion Protected Electrical Product*.

See Annex for the detailed product information (4 pages).

Initial issue date: 2020-09-01

Issued date: 2023-04-23

Valid to: 2025-08-31

The validity of this certificate is maintained through the regular supervision of the issuing authority during the validity period.

Where any discrepancy arises between the English translation and the original Chinese version, the Chinese version shall prevail.

Director:



Nanyang Explosion Protected Electrical  
Apparatus Research Institute Co.,Ltd.



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CN 0001968



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**Product information:**

1. This certificate covers the following models:

- 8573/15-\*\*\*-\*

**Nomenclature:**

|      |   |   |   |   |   |    |   |   |
|------|---|---|---|---|---|----|---|---|
| 8573 | / | * | * | - | * | ** | - | * |
| a    | / | b | c | - | d | e  | - | f |

a Type series

b Version:

- 1= Standard
- 2= North America

c Desing:

- 5= Flange Socket

d Number of Poles:

- 2= 2poles
- 3= 3poles

e Code for pin orientation and voltage

- 00 = 20 – 25 V, 50 / 60 Hz, violet
- 02 = 20 – 25 V and 40 – 50 V, 300 Hz, green
- 03 = 20 – 25 V and 40 – 50 V, 400 Hz, green
- 04 = 20 – 25 V and 40 – 50 V, >100 – 200 Hz, green
- 10 = 20 – 25 V DC, violet
- 11 = 20 – 25 V and 40 – 50 V, >400 – 500 Hz, green
- 12 = 40 – 50 V, 50 / 60 Hz, light-grey

f Content of Silicon:

- B= silicone free

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**Ambient temperature:**

- 50 °C ≤ Tamb ≤ +40 °C by max. 16 A
- 50 °C ≤ Tamb ≤ +55 °C by max. 12 A
- 50 °C ≤ Tamb ≤ +60 °C by max. 10 A

**Service temperature:**

- 50 °C ≤ TS ≤ +80 °C (for enclosure)
- 50 °C ≤ TS ≤ +95 °C (for switch insert)

**Electrical Data:**

- Rated operational voltage: 50 V AC or 110 V DC
- Rated operational current: max. 16 A
- Utilization category: AC-3, 50 V, 16 A
- Rated frequency: 50-60 Hz; up to 500 Hz
- Rated isolation voltage: 275 V
- Rated impulse withstand voltage: 2.5 kV
- Rated short-time withstand current: 10 kA
- Terminal capacity: 0.75...4 mm<sup>2</sup>: 1 or 2 rigid or flexible wires
- PE conductor size: Same or larger than line / load cross section
- PA conductor size: 4 mm<sup>2</sup>
- Tightening torque: Terminals: 1.2 Nm

Note: Flexible wires are suitable with or without wire end ferrules.

Maximum rated operating current depends on conductor cross section and ambient temperature.

| T <sub>amb</sub> | ≤ +45 °C                  | ≤ +55 °C                  | ≤ +65 °C                  |
|------------------|---------------------------|---------------------------|---------------------------|
| Rated operating  | 16 A (4 mm <sup>2</sup> ) | 12 A (4 mm <sup>2</sup> ) | 10 A (4 mm <sup>2</sup> ) |

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|  |  |   |   |
|--|--|---|---|
| current allowed for conductor cross section. | 16 A (2.5 mm <sup>2</sup> )<br>10 A (1.5 mm <sup>2</sup> )<br>8 A (1 mm <sup>2</sup> ) | 12 A (2.5 mm <sup>2</sup> )<br>7 A (1.5 mm <sup>2</sup> )<br>6 A (1 mm <sup>2</sup> ) | 10 A (2.5 mm <sup>2</sup> )<br>6 A (1.5 mm <sup>2</sup> )<br>5 A (1 mm <sup>2</sup> ) |
| Cross section is shown in bracket.           | 6 A (0.75 mm <sup>2</sup> )  | 4 A (0.75 mm <sup>2</sup> )   | 3 A (0.75 mm <sup>2</sup> )   |

- Ingress protection:

- When mounted in a stainless steel enclosure and cover closed or plug inserted (without 45° adapter): IP66.
  - When mounted in a plastic enclosure and cover closed or plug inserted (without 45° adapter): IP66.
  - When mounted in a stainless steel enclosure and cover closed or plug inserted (with 45° adapter): IP66.
  - When mounted in a plastic enclosure and cover closed or plug inserted (with 45° adapter): IP64.
- (Cover must be closed thoroughly when plug is not inserted to maintain environmental protection).

Ex marking: Ex db eb IIC Gb, Ex tb IIIC Db

- Producers should organize production in accordance with the technical documents approved by the certification body.

2. Specific conditions of safety use:

- The flange sockets of type 8573/15 shall be mounted on an enclosure that meets the requirements of an approved type of protection as specified in GB/T3836.1, section 1. The degree of protection IP will only be safeguarded if the unit is properly installed in the electrical equipment. They must be suited for the operating conditions and have a separate examination certificate.
- If the flange socket type 8573/15 is attached to an enclosure of level of protection Increased Safety "e" in accordance with GB/T3836.3, the clearance and creepage distances specified in section 4.3, section 4.4 and table 2 shall duly be complied with.
- The connecting cable of the flange socket type 8573/15 shall be fixed and routed so

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that it will be adequately protected against mechanical damage.

- If the temperature at the input parts exceeds 70 °C, temperature-resistant connecting cables shall be used.
  - Installation of electrical components requires a further assessment by an ExCB.
  - The user shall be informed of these conditions in an appropriate form, e.g. with a note included in the operating instructions.
  - WARNING – IN ORDER TO ENSURE THE INGRESS PROTECTION IP, THE BAYONET RING OF THE PLUG MUST BE SCREWED UP TO THE STOP TO THE SOCKET AND THE HINGED COVER OF THE SOCKET MUST BE CLOSED AND SCREWED UP TO THE STOP WHEN THE PLUG IS NOT INSERTED. THE COVER OF THE TERMINAL COMPARTMENT MUST BE FASTENED WITH THE APPROPRIATE TORQUE.
  - WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS.
  - See instruction for other information.
3. Certificate related report(s):
- Type test report: CQST2008C132, CQST2008C132/01
  - Factory inspection report: CN2022Q030187
4. Certificate change information:
- 1st change on April 23, 2023:
    - (1) Updated the standards for certification.
    - (2) Added 45° adapter for the flange socket.

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