



# CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

No.: 2020312308000058

**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** Plug-and-socket device  
**Model/Type** 8581/...-...-..  
**Ex marking** Ex db eb IIC T6/T5 Gb, Ex db eb [ib] IIC T6/T5 Gb,  
Ex tb IIIC T80°C/T95°C Db  
**Reference Standards** GB/T 3836.1-2021, GB/T 3836.2-2021, GB/ 3836.3-2021,  
GB/T 3836.4-2021, 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 CNEX-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: 2020-09-04

Issued date: 2023-04-28

Valid to: 2025-09-03

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 0001977



# CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

## (Annex)

No.: 2020312308000058

Page 1 of 4

**Product information:**

1. This certificate covers the following models:

- 8581/...-...-

**Nomenclature**

Plug-and-socket device	Type	8581/ab-cde-f
a	1: standard with 8548 2: for North American market with 8548 3: standard with 8549 4: for North American market with 8549	
b	1: switch socket 2: Plug	
c	number of poles 4: 3P+PE 5: 3P+N+PE	
d, e, f	numerals or letters without influence to explosion-protection	

1) Technical data with 8548 switch insert

Rated isolation voltage up to 750V

	Rated voltage	Rated current	Utilisation category
Main circuit	Up to 690V	Up to 125A	AC23
	Up to 500V	Up to 125A	AC3
Auxiliary circuit	Up to 415V	Up to 6A	AC3

The switch is suitable for connection of intrinsically safe circuits of the auxiliary contacts.

Rated cross-section:

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**No.:** 2020312308000058

Page 2 of 4

Switched socket outlet	120 mm <sup>2</sup> multi, fine and finely- -stranded(main contacts) 4 mm <sup>2</sup> single, fine and finely stranded(auxiliary contacts)
Switched socket outlet for through connection	95 mm <sup>2</sup> fine and finely-stranded 120 mm <sup>2</sup> with cable lug
Plug	35 mm <sup>2</sup> fine and finely stranded 50 mm <sup>2</sup> with cable lug
Ambient Temperature	-45°C to +40°C, T6 -45°C to +60°C, T5

2) Technical data with 8549 switch insert

Rated isolation voltage up to 750V

	Rated voltage	Rated current	Utilization category
Main circuit	Up to 690V	Up to 125A	AC3
Auxiliary circuit	Up to 500V	Up to 6A	AC15

The switch is suitable for connection of intrinsically safe circuits of the auxiliary contacts.

Rated cross-section:

Switched socket outlet	50 to 150 mm <sup>2</sup> multi, fine and finely- -stranded(main contacts) 1.5 to 2.5 mm <sup>2</sup> single, fine and finely stranded
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No.: 2020312308000058

Page 3 of 4

(auxiliary contacts)

**Ambient Temperature**

cross-section Sockte outlet	Plug	Rated current	Ambient Temperature	Temperature Class (Gas)	Surface temperature (Dust)
≥70mm <sup>2</sup>	50mm <sup>2</sup>	125A	T <sub>a</sub> ≤50℃	T5	T75℃
		115A	T <sub>a</sub> ≤40℃	T6	T65℃
			T <sub>a</sub> ≤55℃	T5	T80℃
		100A	T <sub>a</sub> ≤45℃	T6	T70℃
T <sub>a</sub> ≤60℃	T5		T85℃		
≥70mm <sup>2</sup>	35mm <sup>2</sup>	125A	T <sub>a</sub> ≤45℃	T5	T80℃
		115A	T <sub>a</sub> ≤50℃	T5	T75℃
			T <sub>a</sub> ≤45℃	T6	T70℃
		100A	T <sub>a</sub> ≤60℃	T5	T85℃
≥50mm <sup>2</sup>	125A		T <sub>a</sub> ≤45℃	T5	T70℃
		T <sub>a</sub> ≤50℃	T5	T75℃	
	115A	T <sub>a</sub> ≤45℃	T6	T70℃	
		T <sub>a</sub> ≤60℃	T5	T85℃	

Ingress Protection: IP66

Ex marking: Ex db eb IIC T6/T5 Gb, Ex db eb [ib] IIC T6/T5 Gb, Ex tb IIIC T80℃/T95℃ Db

T6: -45℃ ≤ T<sub>a</sub> ≤ +40℃

T5: -45℃ ≤ T<sub>a</sub> ≤ +55℃

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

2. Specific conditions of safety use:

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No.: 2020312308000058

Page 4 of 4

- Auxiliary contacts designed to type of protection Intrinsic Safety "I".
  - The switch shall be fitted in the enclosure in such a way that the clearance and creepage distances between intrinsically safe and non intrinsically safe circuits as required in GB/T 3836.4 are complied with.
  - When using more than one intrinsically safe circuit, the rules and regulations for interconnection shall duly be observed.
  - The composition of the protection symbol will be based on the types of protection of components actually used.
  - Before application, CCC certified cable gland that suitable for the conditions of use shall be applied, and correctly installed.
  - See instruction for other information.
3. Certificate related report(s):
- Type test report: CQST2005C031, CQST2005C031/01.
  - Factory inspection report: CN2022Q030187.
4. Certificate change information:
- 1st change on April 28, 2023: Updated the standards for certification.

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