



中国国家强制性产品认证证书

证书编号: 2020312308000058

认证委托人名称及地址

R. STAHL Schaltgeräte GmbH
Am Bahnhof 30, 74638 Waldenburg, Germany

生产者名称及地址

R. STAHL Schaltgeräte GmbH
Am Bahnhof 30, 74638 Waldenburg, Germany

生产企业名称及地址

R. STAHL Schaltgeräte GmbH
Am Bahnhof 30, 74638 Waldenburg, Germany

产品名称和系列、型号、规格

防爆插座/插头

8581/...-...-

Ex db eb IIC T6/T5 Gb, Ex db eb [ib] IIC T6/T5 Gb,

Ex tb IIIC T80°C/T95°C Db

产品标准和技术要求

GB/T 3836.1-2021, GB/T 3836.2-2021, GB/T 3836.3-2021,
GB/T 3836.4-2021, GB/T 3836.31-2021

上述产品符合《强制性产品认证实施规则 防爆电气》

(CNCA-C23-01: 2024) 的要求, 特发此证。

发证日期: 2025年08月25日 有效期至: 2030年09月03日

证书信息和有效性可扫描下方二维码或登录发证机构网站查验,
也可在认监委网站 (www.cnca.gov.cn) 查询。



法定代表人:

南阳防爆电气研究所有限公司



中国国家强制性产品认证证书

证书编号：2020312308000058

证书附页：第 1 页 共 3 页

产品相关信息：

1、本证书覆盖产品如下：

- 8581/...-.-.

命名规则：

插头与插座	型号	8581/ab-cde-f
a	1: 通用 配装 8548 2: 北美市场 配装 8548 3: 通用 配装 8549 4: 北美市场 配装 8549	
b	1: 插座 2: 插头	
c	极数 4: 3P+PE 5: 3P+N+PE	
d、e、f	与防爆型式无关的字母或数字	

电气参数：

1) 内部配装 8548 开关

额定绝缘电压 750V

	额定电压	额定电流	使用类别
主回路	最大 690V	最大 125A	AC23
	最大 500V	最大 125A	AC3
辅助回路*	最大 415V	最大 6A	AC3

*注：其辅助触点可以用于本安电路回路

额定连接导体横截面积

开关插座	120mm ² 多股导线（主触点） 4mm ² 单股/多股导线（辅助触点）
开关插座连接	95mm ² 多股导线 120mm ² 带电缆端头
插头	35mm ² 多股导线 50mm ² 带电缆端头

使用环境温度 -45℃~ +40℃, T6

本页为证书附页，应与证书主页同时使用。



南阳防爆电气研究所有限公司





中国国家强制性产品认证证书

证书编号：2020312308000058

证书附页：第2页 共3页

-45°C ~ +60°C, T5

2) 内部配装 8549 开关

额定绝缘电压 750V

	额定电压	额定电流	使用类别
主回路	最大 690V	最大 125A	AC3
辅助回路*	最大 500V	最大 6A	AC15

注：其辅助触点可以用于本安电路回路

额定连接横截面积

开关插座 50-150mm² 多股导线（主触点）

1.5-2.5mm² 单股/多股导线（辅助触点）

使用环境温度：

连接导体横截面积 插座	连接导体横截面积 插头	额定电流	使用环境温度	温度组别	最高表面温度
≥70mm ²	50mm ²	125A	T ≤50°C	T5	T 75°C
		115A	T ≤40°C	T6	T 65°C
			T ≤55°C	T5	T 80°C
		100A	T ≤45°C	T6	T 70°C
			T ≤60°C	T5	T 85°C
≥70mm ²	35mm ²	125A	T ≤45°C	T5	T 80°C
		115A	T ≤50°C	T5	T 75°C
			T ≤45°C	T6	T 70°C
		100A	T ≤60°C	T5	T 85°C
≥50mm ²	35mm ²	125A	T ≤45°C	T5	T 70°C
		115A	T ≤50°C	T5	T 75°C
			T ≤45°C	T6	T 70°C
		100A	T ≤60°C	T5	T 85°C

外壳防护等级：IP66

防爆标志：Ex db eb IIC T6/T5 Gb, Ex db eb [ib] IIC T6/T5 Gb, Ex tb IIC T80°C/T95°C

Db

T6: 环境温度为-45°C~+40°C时

T5: 环境温度为-45°C~+55°C时

本页为证书附页，应与证书主页同时使用。



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证书附页：第 3 页 共 3 页

- 生产者应按照认证机构批准的技术文件组织生产。

2、安全使用条件：

- 辅助触点设计为本安型。
- 插接装置应安装在外壳内，该外壳需保证电气间隙、爬电距离、本安与非本安电路间距符合 GB/T 3836.4 的要求。
- 当使用多个本安电路时，应遵守相关规定。
- 防爆标志的构成将基于实际使用的组件的保护类型。
- 本产品安装使用时，应配用已获得 CCC 认证且适合使用条件的电缆引入装置，并正确安装。
- 其他见产品使用说明书。

3、证书变更信息：

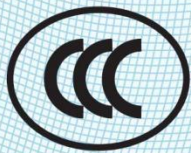
- 本证书为期满换发证书，证书首次颁发日期：2020 年 09 月 04 日。

本页为证书附页，应与证书主页同时使用。



南阳防爆电气研究所有限公司





CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

No.: 2020312308000058

Applicant and address

R. STAHL Schaltgeräte GmbH
Am Bahnhof 30, 74638 Waldenburg, Germany

Manufacturer and address

R. STAHL Schaltgeräte GmbH
Am Bahnhof 30, 74638 Waldenburg, Germany

Factory and address

R. STAHL Schaltgeräte GmbH
Am Bahnhof 30, 74638 Waldenburg, Germany

Product, series, specification and model

Plug-and-socket device

8581/...-...-.

Ex db eb IIC T6/T5 Gb, Ex db eb [ib] IIC T6/T5 Gb,

Ex tb IIIC T80°C/T95°C Db

Standards

GB/T 3836.1-2021, GB/T 3836.2-2021, GB/T 3836.3-2021,

GB/T 3836.4-2021, GB/T 3836.31-2021

**This product(s) complies with the requirements of CNCA-C23-01: 2024
China Compulsory Certification Implementation Rule on Explosion
Protected Electrical Product.**

Issue date: 2025-08-25 Valid to: 2030-09-03

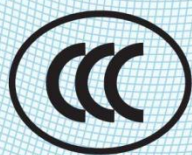
Detailed information and status of this certificate is available by using the QR code,
visiting CNEx's website or CNCA's website: www.cnca.gov.cn.

This translated document has no legal effect and shall not be used alone.



Director:

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



CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

No.: 2020312308000058

Annex: 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

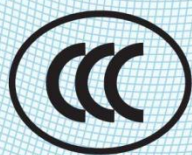
The switch is suitable for connection of intrinsically safe circuits of the auxiliary contacts.

Rated cross-section:



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CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

No.: 2020312308000058

Annex: Page 2 of 4

Switched socket outlet 120 mm² multi, fine and finely- -stranded(main contacts)
4 mm² single, fine and finely stranded(auxiliary contacts)

Switched socket outlet 95 mm² fine and finely-stranded
for through connection 120 mm² with cable lug

Plug 35 mm² fine and finely stranded
50 mm² 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 mm² multi, fine and finely- -stranded(main contacts)
1.5 to 2.5 mm² single, fine and finely stranded
(auxiliary contacts)

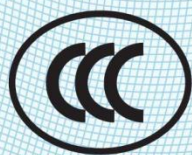
Ambient Temperature

cross-section	Rated	Ambient	Temperature	Surface
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CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

No.: 2020312308000058

Annex: Page 3 of 4

Sockte outlet	Plug	current	Temperature	Class (Gas)	temperature (Dust)
≥70mm ²	50mm ²	125A	T _a ≤50℃	T5	T75℃
		115A	T _a ≤40℃	T6	T65℃
			T _a ≤55℃	T5	T80℃
		100A	T _a ≤45℃	T6	T70℃
			T _a ≤60℃	T5	T85℃
≥70mm ²	35mm ²	125A	T _a ≤45℃	T5	T80℃
		115A	T _a ≤50℃	T5	T75℃
		100A	T _a ≤45℃	T6	T70℃
			T _a ≤60℃	T5	T85℃
≥50mm ²	35mm ²	125A	T _a ≤45℃	T5	T70℃
		115A	T _a ≤50℃	T5	T75℃
		100A	T _a ≤45℃	T6	T70℃
			T _a ≤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_a ≤ +40℃

T5: -45℃ ≤ T_a ≤ +55℃

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

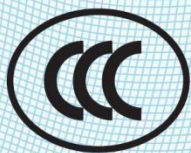
2. Specific conditions of use:

- 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



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CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

No.: 2020312308000058

Annex: Page 4 of 4

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 change information:

- This certificate is issued for renewal upon expiration, The first issuance date of the certificate is 2020-09-04.



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