



中国国家强制性产品认证证书

证书编号: 2020312304000685

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

正压防爆控制系统
a621/1*-****-****

见附页

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 3836.5-2021, GB/T 3836.9-2021,
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02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



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证书附页：第 1 页 共 5 页

产品相关信息：

1、本证书覆盖产品如下：

- a621/1*-****-****

正压防爆控制系统和正压控制器型号及含义：

a621 /b c- d e f g-h i j k

a: 7 EPL: Gc

8 EPL: Gb

b: 1 正压系统

c: 1 福斯

2 通用

d: 1 Ex e

2 Ex d

3 Ex m

e: 控制器电缆引入

0 3×M16+1×M20

1 4×M16

2 2×M25

3 3×M20

f: 供电电压

0 230VAC

1 115VAC

2 24VDC

g: 压力范围

0 0-25mbar

1 30-350mbar

2 100-1000mbar

h: 断电控制输出

0 有源输出

1 无源输出

i、j、k: *与防爆无关的代码

正压控制器电气参数：

非本安电路（保护级别为 eb 或 ec）

最高安全电压： $U_n \leq 253V$ AC/DC

1) a622/11-**0*-0*** (a=7 或 8)

标称值如下：

电源供电

本页为证书附页，应与证书主页同时使用。

a622 /b c- d e f g-h i j k

a: 7 EPL: Gc

8 EPL: Gb

b: 1 正压控制器

c: 1 版本 1

d: 1 Ex e

2 Ex d

3 Ex m

e: 电缆引入

0 3×M16+1×M20

1 4×M16

2 2×M25

3 3×M20

f: 供电电压

0 230VAC

1 115VAC

2 24VDC

g: 压力范围

0 0-25mbar

1 30-350mbar

2 100-1000mbar

h: 断电控制输出

0 有源输出

1 无源输出

i、j、k: *与防爆无关的代码



南阳防爆电气研究所有限公司



中国认可
产品
PRODUCT
CNAS C208-P



中国国家强制性产品认证证书

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端子 1 (L), 2 (N), 9 (PE)

$U_N = 230 \text{ V AC } (\pm 10\%) \text{ 48-62 Hz}$

$I_N = I_{\text{Power Out}} + 33 \text{ mA}$

$P_N = P_{\text{Power Out}} + 3 \text{ W}$

断电

端子 3 (L), 4 (N), 10 (PE)

$U_N = 230 \text{ V AC } (\pm 10\%) \text{ 48-62 Hz}$

$I_N = 3 \text{ A } \cos \phi \geq 0.7 \text{ 或 } 4 \text{ A } \cos \phi = 1$

PWM 输出

端子 5 (L), 6 (N), 11 (PE)

$U_N = 230 \text{ V AC } (\pm 10\%) \text{ 280 Hz (脉冲宽度调制)}$

$I_N = 80 \text{ mA}$

2) a622/11-**1*-0*** (a=7 或 8)

标称值如下:

电源供电

端子 1 (L), 2 (N), 9 (PE)

$U_N = 115 \text{ V AC } (\pm 10\%) \text{ 48-62 Hz}$

$I_N = I_{\text{Power Out}} + 42 \text{ mA}$

$P_N = P_{\text{Power Out}} + 2 \text{ W}$

断电

端子 3 (L), 4 (N), 10 (PE)

$U_N = 115 \text{ V AC } (\pm 10\%) \text{ 48-62 Hz}$

$I_N = 3 \text{ A } \cos \phi \geq 0.7 \text{ 或 } 4 \text{ A } \cos \phi = 1$

PWM 输出

端子 5 (L), 6 (N), 11 (PE)

$U_N = 115 \text{ V AC } (\pm 10\%) \text{ 280 Hz (脉冲宽度调制)}$

$I_N = 160 \text{ mA}$

3) a622/11-**2*-0*** (a=7 或 8)

标称值如下:

电源供电

端子 1 (+), 2 (-)

$U_N = 24 \text{ V DC (20.4-28.8 V DC)}$

$I_N = I_{\text{Power Out}} + 60 \text{ mA (24 V DC)}$

$P_N = P_{\text{Power Out}} + 1.5 \text{ W}$

本页为证书附页, 应与证书主页同时使用。



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断电

端子 3 (+), 4 (-)

$U_N = 24V\ DC\ (20.4-28.8V\ DC)$

$I_N = 3A$

PWM 输出

端子 5 (+), 6 (-)

$U_N = 24V\ DC\ (20.4-28.8V\ DC)$

$I_N = 0.75A\ 280Hz\ (\text{脉冲宽度调制})$

$P_N = 18W$

4) a622/11-**f*-1*** (a=7 或 8) (f=0、1、2)

断电 (无源触点, 常开)

端子 3 (+), 4 (-)

$U_N = 30V\ DC\ (20.4-28.8V\ DC)$

$I_N = 3ADC$

或

$U_N = 115-230V\ AC\ (\pm 10\%) 48-62\ Hz$

$I_N = 3\ A\ \cos\ \phi \geq 0.7\ \text{或}\ 4\ A\ \cos\ \phi = 1$

5) a622/11-**f*-**** (a=7 或 8) (f=0、1、2)

信号输出 (无源触点, 常开)

端子 7, 8

$U_N = 30V\ DC\ (20.4-28.8V\ DC)$

$I_N = 3A\ DC$

或

$U_N = 115-230V\ AC\ (\pm 10\%) 48-62\ Hz$

$I_N = 3\ A\ \cos\ \phi \geq 0.7\ \text{或}\ 4\ A\ \cos\ \phi = 1$

接地端子: 9、10、11

7622/11-1***-****和 8622/11-1***-****的接地端子在内部互相连接, 但与其他 230VAC(±10%)的电路分开。

8622/11-2***-****和 8622/11-3***-****的接地端子在内部连接到金属外壳, 但与其他 230VAC(±10%)的电路分开。

本安电路 (ia)

(端子: PROGR, TEMPERATURE, BYPASS)

PROGR 端子 14, 15

TEMPERATURE 端子 21, 22

BYPASS 端子 23, 24

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本安电路与非本安电路及接地相互隔离。由于三个电路都有公共接地点，因此要考虑三个电路的总电流。

$U_o = 6.51 \text{ V}$

$I_o = 20.8 \text{ mA}$

$P_o = 34 \text{ mW}$

线性特性

$C_i \approx 0 \text{ nF}$

$L_i \approx 0 \text{ } \mu\text{H}$

下表中的 L_o 和 C_o 值是组合电感和电容。用灰色标记的 L_o 和 C_o 的值是根据 GB/T 3836.4 附件 A 的曲线和表格。

IIC 气体环境组别的 L_o 和 C_o 值							
L_o (mH)	100	20	10	2	1	0.1	0.002
C_o (uF)	0.67	1.30	1.40	2.00	2.30	4.10	22.0
IIB/IIC 组别的 L_o 和 C_o 值							
L_o (mH)	100	20	5.0	1.0	0.2	0.05	0.002
C_o (uF)	5.00	6.80	8.80	13.0	20.0	32.0	500

防爆标志：7621/1*-1***-****: Ex ec mc ia [pzc Gc] [ia Ga] IIC T6 Gc,
Ex tb [pzc Dc] [ia Da] IIIC T80°C Dc
8621/1*-1 (或 3) ***-****: Ex eb mb ia [pxb Gb] [ia Ga] IIC T4 Gb,
Ex tb [pxb Db] [ia Da] IIIC T130°C Db
8621/1*-2***-****: Ex db [pxb Gb] [ia Ga] IIC T4 Gb,
Ex tb [pxb Db] [ia Da] IIIC T130°C Db

- 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：

- 使用环境温度：-30°C~+60°C。
- 当本产品连接到外壳时，整个系统应根据 GB/T 3836.5-2021 进行评估。
- 当使用涡轮制冷器时，不得在爆炸性粉尘环境中操作系统
- 其他见产品使用说明书。

3、证书变更信息：

本页为证书附页，应与证书主页同时使用。



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中国国家强制性产品认证证书

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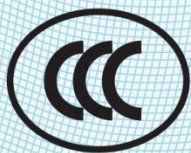
— 本证书为期满换发证书, 证书首次颁发日期: 2020 年 09 月 03 日。

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南阳防爆电气研究所有限公司





CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

No.: 2020312304000685

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

Ex p System

a621/1*-****-****

See Annex

Standards

GB/T 3836.1-2021, GB/T 3836.2-2021, GB/T 3836.3-2021,
GB/T 3836.4-2021, GB/T 3836.5-2021, GB/T 3836.9-2021,
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: 2030-09-02

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.: 2020312304000685

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Product information:

1. This certificate covers the following models:

– a621/1*-****-****

Type designation of Ex p system and Ex p controller:

a621 /b c- d e f g-h i j k

a: 7 EPL: Gc

8 EPL: Gb

b: 1 Ex p system

c: 1 Flowserve

2 General purpose

d: 1 Ex e

2 Ex d

3 Ex m

e: Cable Entries at Ex p Controller

0 3×M16+1×M20

1 4×M16

2 2×M25

3 3×M20

f: Supply voltage

0 230VAC

1 115VAC

2 24VDC

g: Pressure range

0 0-25mbar

1 30-350mbar

2 100-1000mbar

h: Power Out circuit

0 Fed from supply

1 Potential free

i, j, k: *Variation not relevant for Ex-Protection.

a622 /b c- d e f g-h i j k

a: 7 EPL: Gc

8 EPL: Gb

b: 1 Ex p controller

c: 1 1st version

d: 1 Ex e

2 Ex d

3 Ex m

e: Cable Entries

0 3×M16+1×M20

1 4×M16

2 2×M25

3 3×M20

f: Supply voltage

0 230VAC

1 115VAC

2 24VDC

g: Pressure range

0 0-25mbar

1 30-350mbar

2 100-1000mbar

h: Power Out circuit

0 Fed from supply

1 Potential free

Electrical Data for Ex p Controller:

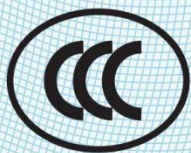
Non-intrinsically safe circuits (level of protection “eb” or “ec”)

Maximum safety voltage: $U_m \leq 253$ V AC or DC



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1) Type a622/11-**0*-0*** (a=7 or 8)

Nominal values are as follows:

Power supply

Terminals 1 (L), 2 (N), 9 (PE)

$U_N = 230 \text{ V AC } (\pm 10\%) \text{ 48-62 Hz}$

$I_N = I_{\text{Power Out}} + 33 \text{ mA}$

$P_N = P_{\text{Power Out}} + 3 \text{ W}$

Power Out

Terminals 3 (L), 4 (N), 10 (PE)

$U_N = 230 \text{ V AC } (\pm 10\%) \text{ 48-62 Hz}$

$I_N = 3 \text{ A } \cos \phi \geq 0.7 \text{ or } 4 \text{ A } \cos \phi = 1$

PWM Output

Terminals 5 (L), 6 (N), 11 (PE)

$U_N = 230 \text{ V AC } (\pm 10\%) \text{ 280 Hz (pulse width modulation)}$

$I_N = 80 \text{ mA}$

2) Type a622/11-**1*-0*** (a=7 or 8)

Nominal values are as follows:

Power supply

Terminals 1 (L), 2 (N), 9 (PE)

$U_N = 115 \text{ V AC } (\pm 10\%) \text{ 48-62 Hz}$

$I_N = I_{\text{Power Out}} + 42 \text{ mA}$

$P_N = P_{\text{Power Out}} + 2 \text{ W}$

Power Out

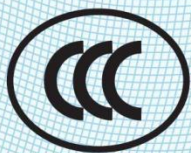
Terminals 3 (L), 4 (N), 10 (PE)

$U_N = 115 \text{ V AC } (\pm 10\%) \text{ 48-62 Hz}$



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$I_N = 3 \text{ A } \cos \phi \geq 0.7 \text{ or } 4 \text{ A } \cos \phi = 1$

PWM Output

Terminals 5 (L), 6 (N), 11 (PE)

$U_N = 115 \text{ V AC } (\pm 10\%) 280 \text{ Hz (pulse width modulation)}$

$I_N = 160 \text{ mA}$

3) Type a622/11-**2*-0*** (a=7 or 8)

Nominal values are as follows:

Power Supply

Terminals 1 (+), 2 (-)

$U_N = 24 \text{ V DC } (20.4\text{-}28.8 \text{ V DC})$

$I_N = I_{\text{Power Out}} + 60 \text{ mA } (24 \text{ V DC})$

$P_N = P_{\text{Power Out}} + 1.5 \text{ W}$

Power Out

Terminals 3 (+), 4 (-)

$U_N = 24 \text{ V DC } (20.4\text{-}28.8 \text{ V DC})$

$I_N = 3 \text{ A}$

PWM Output

Terminals 5 (+), 6 (-)

$U_N = 24 \text{ V DC } (20.4\text{-}28.8 \text{ V DC})$

$I_N = 0.75 \text{ A } 280 \text{ Hz (pulse width modulation)}$

$P_N = 18 \text{ W}$

4) Type a622/11-**f*-1*** (a=7 or 8) (f=0, 1, 2)

Power Out (potential free contact, normally open)

Terminals 3 (+), 4 (-)

$U_N = 30 \text{ V DC } (20.4\text{-}28.8 \text{ V DC})$

$I_N = 3 \text{ A DC}$

or

$U_N = 115\text{-}230 \text{ V AC } (\pm 10\%) 48\text{-}62 \text{ Hz}$

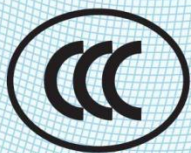
$I_N = 3 \text{ A } \cos \phi \geq 0.7 \text{ or } 4 \text{ A } \cos \phi = 1$

5) Type a622/11-**f*-**** (a=7 or 8) (f=0, 1, 2)



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Signal Out (potential free contact, normally open)

Terminals 7, 8

$U_N = 30V$ DC

$I_N = 3A$ DC

or

$U_N = 115-230V$ AC ($\pm 10\%$) 48-62 Hz

$I_N = 3A \cos \phi \geq 0.7$ or $4A \cos \phi = 1$

Earth/ground: Terminals 9, 10, 11

For type 7622/11-1***-**** and 8622/11-1***-**** the terminals are interconnected to each other but separated from all other circuits for up to 230 V AC ($\pm 10\%$).

For type 8622/11-2***-**** and 8622/11-3***-**** the terminals are internally connected to the metal enclosure, but separated from all other circuits for up to 230 V AC ($\pm 10\%$)

Intrinsically safe circuits (level of protection "ia")

(Terminal: TEMPERATUR, BYPASS, PROGR)

PROGR Terminals 14, 15

TEMPERATURE Terminals 21, 22

BYPASS Terminals 23, 24

The intrinsically safe circuits are galvanically isolated from the non-intrinsically safe circuits and from ground. As all three circuits reference to a common ground, the total current of all three circuits is considered.

$U_o = 6.51V$

$I_o = 20.8mA$

$P_o = 34mW$

Linear characteristic

$C_i \approx 0nF$

$L_i \approx 0\mu H$

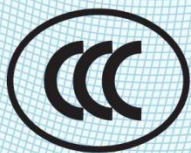
The values of L_o and C_o in the following table are the maximum values for combined inductance and capacitance. The values for L_o and C_o marked in grey are the values determined according to the curves and tables of GB/T 3836.4, Annex A.

Lo and Co values for gas group IIC



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Lo (mH)	100	20	10	2	1	0.1	0.002
Co (uF)	0.67	1.30	1.40	2.00	2.30	4.10	22.0
Lo and Co values for groups IIB / IIIC							
Lo (mH)	100	20	5.0	1.0	0.2	0.05	0.002
Co (uF)	5.00	6.80	8.80	13.0	20.0	32.0	500

Ex marking: 7621/1*-1***-****: Ex ec mc ia [pzc Gc] [ia Ga] IIC T6 Gc,
Ex tb [pzc Dc] [ia Da] IIIC T80°C Dc

8621/1*-1(or 3)***-****: Ex eb mb ia [pxb Gb] [ia Ga] IIC T4 Gb,
Ex tb [pxb Db] [ia Da] IIIC T130°C Db

8621/1*-2***-****: Ex db [pxb Gb][ia Ga] IIC T4 Gb,
Ex tb [pxb Db][ia Da] IIIC T130°C Db

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

2. Specific conditions of use:

- Ambient temperature: Ta = - 30°C ... + 60°C.
- When the system is attached to an enclosure, the whole system shall be assessed according to GB/T 3836.5-2021.
- The system shall not be operated in explosive dust atmospheres when using a Whirlwind cooler.
- See instruction manual for other information.

3. Certificate change information:

- This certificate is issued for renewal upon expiration, The first issuance date of the certificate is 2020-09-03.



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