



CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

No.: 2021312304001134

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	Control unit
Model/Type	8510/1**_**_***_***_**
Ex marking	Ex db eb IIC Gb, Ex db eb [ib] IIC Gb, Ex db eb [ia Ga] IIC Gb
Reference Standards	GB/T 3836.1-2021, GB/T 3836.2-2021, GB/T 3836.3-2021 GB/T 3836.4-2021

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

The sample(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: 2021-08-11

Issued date: 2023-04-29

Valid to: 2026-08-10

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.



<http://www.ccc-cnex.com>
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CN 0001945



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Product information:

1. This certificate covers the following models:

- 8510/1**_**_***_***_**

Nomenclature:

8510/	1	*	*	-	**	_***_***_**
1)	2)	3)	4)		5)	6)

- 1) Type series 8510
- 2) Generation 1
- 3) Length x width
 - 1=130mm×48mm
 - 2=130mm×70mm
 - 3=130mm×115mm
 - 4=130mm×80mm
- 4) Height
 - 1=ca. 110.5mm
 - 2=ca. 168mm

Note: 3) and 4) permissible combinations: 11, 12, 22, 31, 32 and 41
- 5) Version: Kind of built-in component
- 6) Further information regarding built-in component

Parameters:

Rated voltage	Up to	AC 690V
Permissible cross sectional area		
for the main contacts type 8510/1**_**_***_***_**		
finely stranded conductor	0.75mm ² ~1.5mm ²	
solid conductor	0.75mm ² ~2.5mm ²	

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for the main contacts all other types	
finely stranded conductor	0.75mm ² ~6mm ²
solid conductor	0.75mm ² ~10mm ²
for the auxiliary contacts	
finely stranded conductor	0.75mm ² ~1.5mm ²
solid conductor	0.75mm ² ~2.5mm ²

Type	Main contacts			Auxiliary contacts			Upper limit of the ambient temperature range for Ts=100°C/110°C		
	A	B	C	D	E	F	T6	T5	T4
8510/111...	2	2.5	5	0	1.5	6	60	60	60
	2	2.5	10	0	1.5	6	60	60	60
8510/112...	2	2.5	4	0	1.5	6	60	60	60
8510/122...	3	2.5	20	1	1.5	6	45	60	60
	4	2.5	20	1	1.5	6	40	55	60
	3	4	20	1	1.5	6	40	55	60
	4	4	20	1	1.5	6	50	60	60
	3	6	20	1	1.5	6	40	60	60
8510/131...	6	2.5	7	0	1.5	6	60	60	60

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8510/132...	3	6	40	1	1.5	6	30	45	60
	4	6	40	1	1.5	6	25	40	50
	3	10	40	1	1.5	6	45	60	60
	4	10	40	1	1.5	6	45	60	60
8510/141...	3	2.5	10	1	1.5	6	60	60	60
	3	4	10	1	1.5	6	60	60	60
	--	--	--	2	1.5	6	60	60	60

- A) Maximum permissible number of main contacts
- B) Minimum permissible cross-sectional area of the external wiring in mm²
- C) Maximum permissible rated current for each main contact in A
- D) Maximum permissible number of auxiliary contacts
- E) Minimum permissible cross-sectional area of the external wiring in mm²
- F) Maximum permissible rated current for each auxiliary contact in A

Ex marking: Ex db eb IIC Gb, Ex db eb [ib] IIC Gb, Ex db eb [ia Ga] IIC Gb

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

2. Specific conditions of safety use:

- Service temperature: -20°C~+100°C/110°C.
- After installation of the control unit into an enclosure in type of protection Increased Safety "e", the clearances and creepage distances have to meet the requirements of GB/T 3836.3.
- If the control unit is equipped with separately tested and certified devices with intrinsically safe circuits (IS-devices), the following applies:
 - The instructions of the IS-devices have to be followed in addition to the instructions

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of the control unit.

- If the grouping of the IS-device is not IIC, the grouping of the control unit has to be downgraded to the grouping of the IS-device.
- If the requirements of the SPECIFIC CONDITIONS FOR USE of the IS device could not be met with the equipment of the Ex component, the requirements must be passed on to the user.

- See instruction for other information.

3. Certificate related report(s):

- Type test report: CQST2105C008, CQST2105C008/01
- Factory inspection report: CN2022Q030187

4. Certificate change information:

- 1st change on April 29, 2023:
 - 1) Updated the standards for certification.
 - 2) Type 8510/121-... and type 8510/142-... are removed from the list of permissible types.

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