



CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

No.: 2022312303000665

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 Busbar system
Model/Type 8188/**
Ex marking Ex eb IIC Gb
Reference Standards GB/T 3836.1-2021, GB/T 3836.3-2021

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: 2022-04-26

Issued date: 2023-04-24

Valid to: 2027-04-25

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>
ccc.china-ex.com

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CN 0001961



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Product information:

1. This certificate covers the following models:

- 8188/**

Nomenclature:

8188	/	*	*
1)		2)	3)

1) Type/Series

2) Version

2 = Enclosure made of moulded mat. (e.g. type 8146)

3 = Enclosure made of metal (e.g. type 8150)

3) Busbar

1 = Single busbar (20 mm × 10 mm, ≤ 400 A)

2 = Double busbar 2 x (20 mm × 10 mm, ≤ 630 A)

4 = Single busbar (12 mm × 6 mm, ≤ 160 A)

Electrical data:

Main contacts (channels/poles)	160 A : maximum 5 rails with 12 × 6 mm 200 A & 400 A : maximum 6 rails with 20 × 10 mm 630 A: maximum 6 rails with each 2 pieces with 20 mm × 10 mm Maximum number of terminals depends on the individual application.
Terminal type	Screw terminals with a specified tightening torque. See operating instructions.
Connection cross section	Depending on the busbar terminals used. See chapter 6.3 of the description
Type of wire	Depending on the terminal: Single or double connections with

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	- single or solid wire - stranded wire - stranded wire with end ferrule - flat conductors (laminated copper bands) See operating instructions
Rated insulation voltage	800 VAC
Rated operational voltage	690 VAC
Rated current	160 A, 200 A, 400 A, 630 A
Rated frequency	50/60 Hz
Rated impulse withstand voltage	6 kV
Short-circuit conditions (I _{cn} , I _q , I _{cu} , I _{cs})	Depending on the system used and the implemented holder spacing - see table in operating instructions
Diversity factor (or simultaneity factor)	Max. 1.0

Mechanical requirements:

Rails dimensions	160 A: 12 x 6 mm 200 A & 400 A: 20 x 10 mm 630 A: 2 pieces 20 mm x 10mm
Materials	Holder: Material with the data sheet number: D0065-03 Rail: copper, tin-plated (160 A: additionally perforated)
Length of a subunit	160 A: max. 3 m 200 A – 630 A: max. 5 m
Apposition	Maximum 2 subunits (rail sections)

Ex marking: Ex eb IIC Gb, Ex eb I Mb

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

2. Specific conditions of safety use:

- Service temperature range: -60°C~+130°C.

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- Installation of the busbar systems only to enclosures in the type of protection "increased safety" Ex "e" with a wall thickness no less than 1.5 mm for metal enclosures and not less than 2.6 mm for non-metal enclosures.
 - The busbar system type 8188/** shall be mounted in an enclosure that meets the requirements of an approved type of protection as specified in GB/T3836.1, section 1 and has an ingress protection of at least IP54 according to GB/T3836.1 and GB/T3836.3.
 - Only use terminals that complies with the specifications on the electrical data table. They must be suited for the operating conditions. The special conditions specified for the terminals must be complied with and may have to be included in the type test.
 - When installing the busbar system type 8188/** in an enclosure designed to Increased Safety "e" type of protection in compliance with GB/T3836.3, the clearance and creepage distances shall be maintained.
 - The connecting cables of the busbar system type 8188/** shall be fixed and routed so that it will be adequately protected against mechanical damage.
 - Active / Hot cables that cause a higher maximum service temperature in the busbar system type 8188/** as approved in the documentation must not be used.
 - The thermal effects of the busbar system type 8188/** must be taken into account when assembling the entire unit.
 - The use of this component requires a further assessment by an ExCB.
 - See instruction for other information.
3. Certificate related report(s):
- Type test report: CQST2204C016, CQST2204C016/01
 - Factory inspection report: CN2022Q030187
4. Certificate change information:

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- 1st change on April 24, 2023:

- (1) Updated the standards for certification.
- (2) Removed Ex e I Mb.

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