



# CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

No.: 2022312313000496

**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** Conductor bushing  
**Model/Type** 8174/\*\*\*\_\*\*\*\*\_\*\*\*\*\_\*\*  
**Ex marking** Ex db IIC Gb  
**Reference Standards** GB/T3836.1-2021, GB/T3836.2-2021

**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: 2022-04-24

Issued date: 2023-04-17

Valid to: 2027-04-23

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 0001980





# CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION (Annex)

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**Product information:**

1. This certificate covers the following models:

- 8174/\*\*\*\_\*\*\*\*\_\*\*\*\*\_\*\*

Nomenclature:

8174	/	*	**	-	**	**	-	****	-	**
		1)	2)		3)	4)		5)		6)

1) Design

- 1 = screwable
- 2 = plugable

2) thread size / bushing size

- 10 = M16 x 1.5
- 09 = M20 x 1.5
- 02 = M24 x 1.5
- 03 = M33 x 1.5 / Ø 34 mm
- 07 = M36 x 1.5
- 04 = M42 x 1.5 / Ø 41 mm
- 05 = M48 x 1.5 / Ø 48 mm

3) Number of cores

4) Rated cross section

- 13 = 0.5 mm<sup>2</sup>
- 01 = 0.75 mm<sup>2</sup>
- 12 = 1.0 mm<sup>2</sup>
- 02 = 1.5 mm<sup>2</sup>
- 03 = 2.5 mm<sup>2</sup>
- 04 = 4.0 mm<sup>2</sup>
- 05 = 6.0 mm<sup>2</sup>
- 06 = 10 mm<sup>2</sup>

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- 07 = 16 mm<sup>2</sup>
- 08 = 25 mm<sup>2</sup>
- 09 = 35 mm<sup>2</sup>
- 10 = 50 mm<sup>2</sup>
- 11 = 70 mm<sup>2</sup>

- 5) Numerals or letters without influence to explosion-protection
- 6) Numerals or letters without influence to explosion-protection

Electrical data

Rated voltage * U <sub>0</sub> /U	up to	300 V / 500 V 300 V / 600 V 450 V / 750 V 600 V / 1000 V 10 kV
Rated cross section	0.5 mm <sup>2</sup> to 70 mm <sup>2</sup>	
Number of cores	1 ... 72	
Type and size of thread	M16 × 1.5 to M48 × 1.5	
Sleeve diameter	( 34 <sup>-0.01</sup> <sub>-0.06</sub> - 48 <sup>-0.01</sup> <sub>-0.06</sub> )mm	
Sleeve gap width	≥ 25 mm	
*: <i>subject to cable used</i>		

Max. local operating temperature of conductor bushing under normal operating conditions of the electrical apparatus	
cast resin	-55 °C to +120 °C
H07RN-F	-25 °C to +60 °C *
NSSHÖU	-40 °C to +90 °C

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NSGAFÖU	-25 °C to +80 °C *
S07G-K	-25 °C to +110 °C *
H07G-K	-25 °C to +110 °C *
S0-AZLK	-30 °C to +120 °C
H05V-K	-5 °C to +70 °C flexible wiring -30 °C to +80 °C permanent wiring
AWM UL1015 AWG 4 to AWM UL1015 AWG 20	-15 °C to +105 °C
AWM UL1007 AWG 16 to AWM UL1007 AWG 20	-15 °C to +80 °C
*: -40 °C for permanent wiring	

The maximum current carrying capacity of cables shall be established on the basis of the self-heating rate and the heating rate of the installed electrical apparatus at maximum permissible ambient temperature; due consideration shall be given to the temperature of the cast resin under operating conditions and the cable quality.

Ex marking: Ex db IIC Gb

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

2. Specific conditions of safety use:

- Threaded holes into which the conductor bushing will be screwed shall meet the requirements of GB/T 3836.2, section 5.3 (table 4) as a minimum.

- Holes accommodating the conductor bushing with cylindrical gap shall meet the requirements of GB/T 3836.2 tables 2 or 3 (cylindrical gaps) as a minimum, the gap surface must not exceed an average peak-to-valley height of Ra 6.3 µm.

- The conductor bushing with cylindrical gap shall be included in the type test according

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to GB/T 3836.2, section 15, as required by the classification (IIA, IIB or IIC) of the electrical apparatus in question.

- If the reference pressure exceeds 20 bar, the conductor bushing shall be included in the type test according to GB/T 3836.2, section 15.2.3 (overpressure test), as required by the classification of the electrical apparatus in question (classes IIA, IIB or IIC).
  - The way in which temperature class will have to be associated with the temperature resistance of the conductor bushing shall be specified in the type test of the electrical apparatus in question.
  - The conductor bushing shall be fixed in the electrical apparatus in such a way that rotation and self-loosening will be prevented.
  - See instruction for other information.
3. Certificate related report(s):
- Type test report: CQST2204C014, CQST2204C014/01
  - Factory inspection report: CN2022Q030187
4. Certificate change information:
- 1st change on April 17, 2023:
    - (1) Updated the standards for certification.
    - (2) Removed Ex d I Mb.

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