



CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

No.: 2020312308000041

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 Flange Socket
Model/Type 8570/**-***-**
Ex marking Ex db eb IIC Gb, Ex tb IIIC Db; Ex eb IIC Gb, Ex tb IIIC Db
Reference Standards GB/T 3836.1-2021, GB/T 3836.2-2021, GB/T 3836.3-2021, GB/T 3836.31-2021

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 (7 pages).

Initial issue date: 2020-09-01

Issued date: 2023-04-23

Valid to: 2025-08-31

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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Add: No. 20, North Zhongjing Road, Nanyang, Henan, P. R. China P.C.: 473008
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CN 0001966



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Product information:

1. This certificate covers the following models :

- 8570/**_**_*_*

Nomenclature:

8570	/	*	*	-	*	**	-	*	*
a	/	b	c	-	d	e	-	f	g

a Type series

b Design:

- 1 = Standard
- 2 = North America
- 5 = Maintenance

c Device:

- 5 = Flange socket-enclosure
- 8 = Flange socket-cover

d Poles:

- 3 = 2P + PE or 1P + N + PE
- 4 = 3P + PE
- 5 = 3P + N + PE

e Position for earth contact and voltage / frequency / colour

f Sealing material:

- B = silicone free
- S = containing silicone

g Denotes any number or character (Not affecting Ex performance)

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Ambient temperature:

For Flange socket type 8570/*5-***-** :

$-50^{\circ}\text{C} \leq T_{\text{amb}} \leq +45^{\circ}\text{C} \dots 65^{\circ}\text{C} / T_6 \dots T_5$ by current range 6 A...16 A (20 A)

For Flange socket type 8570/*8-***-** :

$-50^{\circ}\text{C} \leq T_{\text{amb}} \leq +45^{\circ}\text{C} \dots 65^{\circ}\text{C} / T_6 \dots T_5$ by current range 6 A...16 A

Service temperature:

For Flange socket type 8570/*5-***-** :

$-50^{\circ}\text{C} \leq T_s \leq +75^{\circ}\text{C}$ (for the enclosure)

$-50^{\circ}\text{C} \leq T_s \leq +95^{\circ}\text{C}$ (for the switch insert)

For Flange socket type 8570/*8-***-**:

$-50^{\circ}\text{C} \leq T_s \leq +75^{\circ}\text{C}$ (for the enclosure)

$-50^{\circ}\text{C} \leq T_s \leq +95^{\circ}\text{C}$ (for the contact sleeve carrier)

Electrical Data:

Type 8570/*5

	Main contacts		Auxiliary contacts
	3 poles	4, 5 poles	
Max. rated operational voltage	500V AC/ 110V DC	690VAC/ 110V DC	500 V AC / 110 V DC
Max. rated insulation voltage	550V AC	750V AC	550V AC
Max. rated operational current	16A/20A		6A
Switching	AC-3, 690 V, 16 A		AC-15, 500 V, 1250VA

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capacity	AC-3, 500 V / 20 A 4 kW, 200 ... 250 V 7.5 kW, 380 ... 500 V 11 kW, 600 ... 690 V DC-1, 110 V, 16 A	AC-15, 230 V, 1380VA AC-12, 500 V, 3000VA DC-13, 110 V, 110 W
Max. rated frequency	0-500Hz	
Short-circuit protection	16A gG (without thermal protection) 35A gG (with thermal protection)	
Terminal capacity for Flange socket type 8570/*5-**	1 or 2 x 1.5 ... 6 mm ² (16 ... 10 AWG) solid 1 or 2 x 1.5 ... 4 mm ² (16 ... 12 AWG) stranded	
Terminal capacity for auxiliary contacts	1 or 2 x 0.5 ... 2.5 mm ² (20 ... 14 AWG) solid or stranded	
PE conductor size	Same or larger than line / load cross section	
Tightening torque	Terminals: max. 1.2 Nm Fixing screws of the flange socket: max. 2.3 NmCable	

Note: Stranded wires are suitable with or without wire end ferrules.

Type 8570/*8

	Main contacts
Max. rated operational voltage	690V AC/230V DC

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Max. rated insulation voltage	690V AC
Max. rated impulse withstand voltage (U_{imp})	max. 6 kV (load disconnect switch) 4 kV (control switch)
Max. rated operational current	16A
Max. rated frequency	0-500Hz
Short-circuit protection	16A gG (without thermal protection) 35A gG (with thermal protection)
Terminal capacity for Flange socket type 8570/*8-**	2.5 mm ² (14 AWG) stranded and 4 mm ² (12 AWG) stranded
PE conductor size	Same or larger than line / load cross section
Tightening torque	Terminals: max. 1.2 Nm Fixing screws of the flange socket: max. 2.3 Nm

Note: Stranded wires are suitable with or without wire end ferrules.

When mounted and cover closed or plug inserted: IP64.

(Cover must be closed thoroughly when plug is not inserted to maintain ingress protection. The plug shall be free from water and dust before is inserted to the flange socket.)

Ex marking: Ex db eb IIC Gb, Ex tb IIIC Db for 8570/*5-***-**

Ex eb IIC Gb, Ex tb IIIC Db for 8570/*8-***-**

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

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2. Specific conditions of safety use:

- The flange socket of type 8570/**_***-** shall be mounted on an enclosure that meets the requirements of an approved type of protection as specified in GB/T3836.1 The degree of protection IP will only be safeguarded if the flange socket is properly installed. The enclosure must be suited for the operating conditions, and have a separate examination certificate.
- In order to ensure the ingress protection IP, the bayonet ring of the plug must be screwed up to the stop to the socket or the hinged cover of the socket must be closed and screwed up to the stop when the plug is not inserted.
- The plug shall be free from water and dust before is inserted to the socket.
- When mounting the flange socket type 8570/**_***-** in an enclosure of level of protection Increased Safety "eb" in accordance with GB/T3836.3, the clearance and creepage distances shall duly be complied with.
- The connecting cable of the plug type 8570/**_***-** shall be fixed and routed so that it will be adequately protected against mechanical damage.
- If the temperature at the input parts exceeds 70 °C, temperature-resistant connecting cables shall be used.
- Installation of electrical components requires a further assessment by an ExCB.
- The flange socket must not be used in dust areas where highly charge-generating processes, machine friction and separation processes, electron spraying (e.g. around electrostatic coating systems) and pneumatically conveyed dust occur.
- The user shall be informed of the following conditions in an appropriate form, e.g. with a note included in the operating instructions:
 - WARNING – DO NOT OPEN WHEN ENERGIZED
 - WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS

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- WARNING – IN ORDER TO ENSURE THE INGRESS PROTECTION IP, THE BAYONET RING OF THE PLUG MUST BE SCREWED UP TO THE STOP TO THE SOCKET AND THE HINGED COVER OF THE SOCKET MUST BE CLOSED AND SCREWED UP TO THE STOP WHEN THE PLUG IS NOT INSERTED. THE COVER OF THE TERMINAL COMPARTMENT MUST BE FASTENED WITH THE APPROPRIATE TORQUE
- WARNING – TEMPERATURE AT THE ENTRY POINTS HIGHER THAN +70°C. A PROPER SELECTION OF CABLE AND CABLE GLANDS OR CONDUCTORS IN CONDUIT IS REQUIRED
- Valid for 8570/55-***-**:
 - WARNING - THE MAINTENANCE FLANGE SOCKET TYPE 8570/55-***-* IS TO BE SECURED FOR SWITCHING WITH THE HELP OF A PADLOCK. SWITCHING ON AND OPERATING THE MAINTENANCE FLANGE SOCKET IS ONLY PERMITTED IF THERE IS NO EX-ATMOSPHERE PRESENT.
 - WARNING - Commissioning a maintenance flange socket type 8570/55-***-* requires the approval of the plant operator or his authorized agents.
- See instruction for other information.
- 3. Certificate related report(s):
 - Type test report: CQST2008C130, CQST2008C130/01
 - Factory inspection report: CN2022Q030187
- 4. Certificate change information:
 - 1st change on April 23, 2023:
 - (1) Updated the standards for certification.

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- (2) Changing the model form 8570/**-***-* to 8570/**-***-**.
- (3) Added maintenance flange socket type 8570/5*-***-**.

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