



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEx CNEX 19.0021X**

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[Certificate history](#)

Status: **Current**

Issue No: 0

Date of Issue: **2019-10-04**

Applicant: **Warom Technology Incorporated Company**
No. 555# Baoqian Road, Jiading, Shanghai
China

Equipment: **Explosion-proof Plug and Socket model BCZ85-./. series**

Optional accessory:

Type of Protection: **db, tb**

Marking: **Ex db IIC T6 Gb**

Ex tb IIIC T80°C Db

Approved for issue on behalf of the IECEx
Certification Body:

Hou Yandong

Position:

Certification Officer

Signature:
(for printed version)


2019-10-04

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

CNEX-Global B.V.
Utrechtseweg 310-B38
6812AR, Arnhem
Netherlands





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Manufacturer: **Warom Technology Incorporated Company**
No. 555# Baoqian Road, Jiading, Shanghai
China

Additional
manufacturing
locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

This Certificate **does not** indicate compliance with safety and performance requirements
other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[NL/CNEX/ExTR19.0021/00](#)

Quality Assessment Report:

[CN/CQM/QAR07.0003/09](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The explosion-proof plug and socket model BCZ85-//. series consist of a plug and a socket in type of explosion protection 'db' for use in explosive gas atmospheres, and in type of explosion protection 'tb' for use in explosive dust atmospheres. The plug and sockets are mechanically/electrically interlocked preventing the separation of the plug and socket when the contacts are energized. The enclosures of the plug and the sockets are made of die-casted material ENAC-ALSi12(b) (ZL102). The plug and the sockets are provided with cable entry openings.

For nomenclature and other information, see the Annex to this certificate.

SPECIFIC CONDITIONS OF USE: YES as shown below:

The ambient temperature range is limited to -60 °C...+60 °C.

The width of flameproof joint is more than the minimum values specified in IEC 60079-1 standard. If needed, repair of the flameproof joints must only be made in compliance with the structural specifications provided by the manufacturer. Repairs must not be made on the basis of values specified in table 4 of IEC 60079-1:2014.

Before application, separate IECEx certified Ex db IIC Gb or/and Ex tb IIIC Db IP66 cable glands and stopping plugs must be applied, rated minimum IP66, suitable for the conditions of use and correctly installed.

Only use cables suitable for a service temperature greater than 90 °C.

The enclosure construction contains non-metallic parts with a potential electrostatic charging hazard. See manufacturer's Instructions.

Annex:

[P19048IA-CCA certificate IECEx CNEX19.0021X Annex.pdf](#)



Annex to Certificate IECEx CNEX 19.0021X Issue 0

Equipment or Protective System: **Explosion-proof Plug and Socket model BCZ85-./. series**

Manufacturer: **Warom Technology Incorporated Company**

Address: **No. 555#, Baoqian Road, Jiading, Shanghai, P.R. China**

Nomenclature for model BCZ85-a/b/c

BCZ	-	Explosion-proof plug and sockets
85	-	Design No.
a	-	Rated current (50 A, 60 A, 63 A)
b	-	Rated voltage
	690 = 600...690 VAC	690 = 600...690 VAC
	500 = 480...500 VAC, 277/480...288/500 VAC	500 = 480...500 VAC, 277/480...288/500 VAC
	415 = 380...415 VAC, 200/346...240/415 VAC	415 = 380...415 VAC, 200/346...240/415 VAC
	250 = 200...250 VAC	250 = 200...250 VAC
c	-	Pole number (4P = 3P+PE, 5P = 3P+N+PE)

Descriptive Documents:

Detailed in the Test Report Cover document. (ref. CQST/ExTR1908G002)

Mounting Instructions:

See manufacturer's instructions.

Installation Instructions:

See manufacturer's instructions.

Routine tests:

Detailed in the Test Report Cover document. (ref. CQST/ExTR1908G002).

Additional Information:

The enclosures of the explosion-proof plug and socket model BCZ85-./. series successfully passed the tests for the Ingress Protection Level IP66 to IEC 60529.

Electrical data:

Type	Rated voltage (V)	Pole number	Rated current (A)	Ex-marking	Cable entry thread
BCZ85-50/□/□ or BCZ85-60/□/□ or BCZ85-63/□/□	200~250 VAC 380~415 VAC 480~500 VAC 600~690 VAC	4P:3P+PE	50 or 60 or 63	Ex db IIC T6 Gb Ex tb IIIC T80°C Db IP66	M40x1.5, M50x1.5, NPT1 1/4", NPT1 1/2"
	200/346~240/415 VAC 277/480~288/500 VAC	5P:3P+N+PE			

Certification Body: CNEX-Global B.V., Utrechtseweg 310-B38, 6812 AR, Arnhem, the Netherlands

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