



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

Ex COMPONENT CERTIFICATE

Certificate No.: **IECEx CQM 15.0016U**

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Certificate history:

[Issue 2 \(2022-10-29\)](#)

[Issue 1 \(2022-05-20\)](#)

[Issue 0 \(2015-06-26\)](#)

Status: **Current**

Issue No: 3

Date of Issue: **2024-05-18**

Applicant: **WAROM TECHNOLOGY INCORPORATED COMPANY**
No. 555 Baoqian Road, Jiading District, Shanghai, 201808
China

Ex Component: **Explosion-proof Circuit Breaker Modules typed BL8060-d/□/□/□/□/□/□**

This component is NOT intended to be used alone and requires additional consideration when incorporated into other equipment or systems for use in explosive atmospheres (refer to IEC 60079-0).

Type of Protection: **Flameproof enclosure "db"**

Marking: **Ex db IIC Gb**

Approved for issue on behalf of the IECEx
Certification Body:

Ji Xiaodong

Position:

President

Signature:
(for printed version)

Date:
(for printed version)

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Certificate issued by:

China Quality Mark Certification Group Co., Ltd.
No. 33 Zengguang Road, Haidian District
Beijing City, Postal code: 100048
China

CQM
China Quality Mark



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Manufacturer: **WAROM TECHNOLOGY INCORPORATED COMPANY**
No. 555 Baoqian Road, Jiading District, Shanghai, 201808
China

Manufacturing locations: **WAROM TECHNOLOGY INCORPORATED COMPANY**
No. 555 Baoqian Road, Jiading District, Shanghai, 201808
China **WAROM Technology Mena Fzco**
Plot No.S31223, Jebel Ali Free Zone
Dubai 263667
United Arab Emirates

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 component 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 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

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 component listed has successfully met the examination and test requirements as recorded in:

Test Reports:

[CN/CQM/ExTR15.0033/00](#) [CN/CQM/ExTR15.0033/01](#) [CN/CQM/ExTR15.0033/02](#)
[CN/CQM/ExTR15.0033/03](#)

Quality Assessment Report:

[CN/CQM/QAR07.0003/12](#)



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Ex Component(s) covered by this certificate is described below:

Description of equipment

BL8060-d series explosion-proof circuit breaker modules are "Ex" components, which adopt flameproof structure. It consists of enclosure and cover. Body and cover are made of ENAC-AISI12 (b) (ZL102) casting aluminum, of which the content of Mg, Ti and Zr is not more than 7.5%. The minimum thickness of enclosure is 6mm, with high pressure electrostatic powder coated. The product has high strength, strong corrosion-proof and stable performance. The circuit breaker is built interbreaker module, which is equipped with special operation mechanism to open and close circuit breaker, with reliable operation. The inlet wires are encapsulated with epoxy resin in cavity and shortest distance of encapsulation is not less than 20 mm.

Rating

Rated voltage: Max. 690V AC, 50/60Hz, Max. 500V DC

Rated current: Max. 250A

Nomenclature and main technical Parameters refer to the attachment.

SCHEDULE OF LIMITATIONS:

- 1.Ambient temperature: -40°C~+70°C.
- 2.The component shall be installed in an enclosure fulfils the requirements of IEC 60079-0 during operation and installation.
- 3.If needed, repair of the flameproof joints must be made in compliance with the structural specifications provided by the manufacturer.
- 4.CAUTION- USE FASTENERS WITH YIELD STRESS \geq 450MPa.
- 5.Rated service temperature range: -40°C to +110°C



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

1. Changed the rated ambient temperature range from -20°C~+70°C to -40°C~+70°C.
2. Changed the rated service temperature range from -20°C~+110°C (106°C) to -40°C~+110°C.
3. Changed the epoxy resin for BL8060-d/32/□/□/□/□, BL8060-d/63/□/□/□/□, BL8060-d/100/□/□/□/□, BL8060-d/160/□/□/□/□ from E44 to YY3011-3A/B.
4. To include additional breaking capacities.

Annex:

[IECEx CQM 15.0016U attachment.pdf](#)



Attachment to CoC

IECEx CQM 15.0016U Issue 3



Applicant:

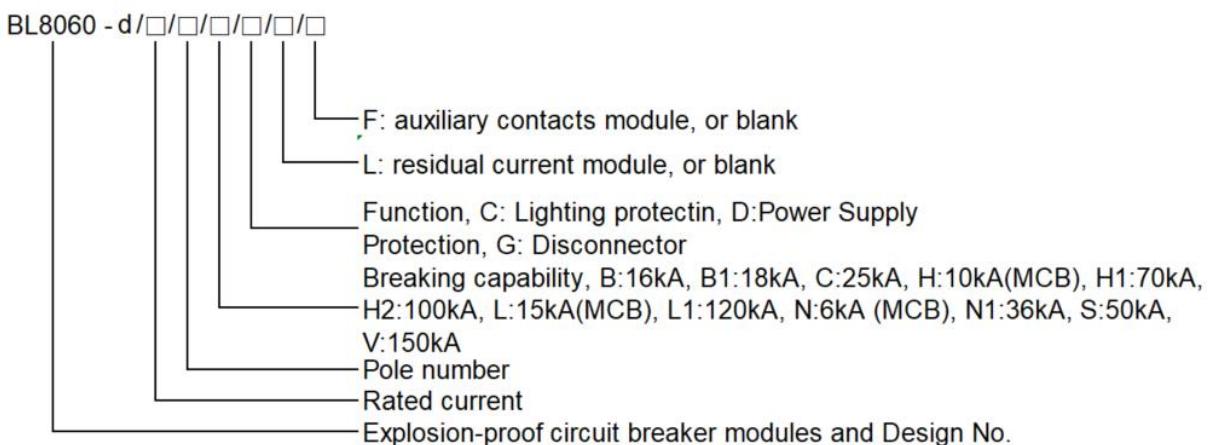
Warom Technology Incorporated Company

Address: No.555, Baoqian Road, Jiading, Shanghai, 201808, PRC

Electrical equipment:

Explosion-proof Circuit Breaker Modules typed BL8060-d/□/□/□/□/□/□

Nomenclature:



Ratings:

Table 1 Voltage and current with MCB and MCCB

| Type | Rated voltage (V) | Rated current (A) | Rated residual operating current (mA) | Auxiliary contact voltage (V) |
|--------------------|------------------------|------------------------------------|---------------------------------------|---------------------------------------|
| BL8060-d/□/1/□/□ | | | | / |
| BL8060-d/□/2/□/□ | | | | |
| BL8060-d/□/3/□/□ | | | | |
| BL8060-d/□/4/□/□ | | | | |
| BL8060-d/□/1/□/□/F | Max.440V AC 50/60HZ | 1, 2, 4, 6, 10, 16, 20, 25, 32, | / | Max.230V DC Max.440V AC 50/60Hz |
| BL8060-d/□/2/□/□/F | Max.230V DC | 40, 63 | | |
| BL8060-d/□/3/□/□/F | | | | |
| BL8060-d/□/4/□/□/F | | | | |
| BL8060-d/□/1/□/□/L | | | 10, 30, 100, 300, 500 | / |
| BL8060-d/□/2/□/□/L | | | | |
| BL8060-d/□/3/□/□/L | | | | |



Attachment to CoC

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| | | | | |
|--|---------------------------------------|--|---|---|
| BL8060-d/□/4/□/□/L | | | | |
| BL8060-d/□/1/□/□/L/F BL8060-d/□/2/□/□/L/F BL8060-d/□/3/□/□/L/F BL8060-d/□/4/□/□/L/F | | | / | Max.230V DC Max.440V AC 50/60Hz |
| BL8060-d/□/3/□/□ BL8060-d/□/4/□/□ | | | / | / |
| BL8060-d/□/3/□/□/F BL8060-d/□/4/□/□/F | Max.690V AC 50/60HZ Max.500V DC | 80, 100, 125, 160, 250 | / | Max. DC 250V Max. AC 440V 50/60Hz |
| BL8060-d/□/3/□/□/L BL8060-d/□/4/□/□/L | | 30, 100, 300, 500, 1000, 3000, 5000, 10000 | / | Max. DC 250V Max. AC 440V 50/60Hz |
| BL8060-d/□/3/□/□/L/F BL8060-d/□/4/□/□/L/F | | | | Max. DC 250V Max. AC 440V 50/60Hz |

Table 2 Rated current and voltage with disconnector

| Type | Rated voltage (V) | Rated current (A) | Auxiliary contact voltage (V) |
|--|---------------------------------------|---|---|
| BL8060-d/□/1/□/G BL8060-d/□/2/□/G BL8060-d/□/3/□/G BL8060-d/□/4/□/G | Max.690V AC 50/60HZ Max.500V DC | 16, 25, 32, 40, 50, 63, 80, 100, 125 | / |
| BL8060-d/□/1/G/F BL8060-d/□/2/G/F BL8060-d/□/3/G/F BL8060-d/□/4/G/F | | | Max. DC 250V Max. AC 440V 50/60Hz |



Attachment to CoC

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Table 3 Current and cross-sectional area of wire

| Rated current (A) | Cross-sectional area of wire(mm^2) |
|-------------------|---|
| 1,2,4,6,10 | 2.5 |
| 16,20,25 | 4 |
| 32 | 6 |
| 40 | 10 |
| 63 | 16 |
| 80 | 25 |
| 100 | 35 |
| 125 | 35 |
| 160 | 50 |
| 250 | 95 |

Table 4 Auxiliary contact

| Rated current (A) | Auxiliary contact voltage (V) | Auxiliary contact current (A) |
|------------------------------|-------------------------------------|-------------------------------|
| 1,2,4,6,10,16,20,25,32,40,63 | Max.440V AC 50/60Hz Max.230V DC | Max.6A |
| 80,100,125,160,250 | Max.440V AC 50/60Hz, Max.250V DC | Max.6A |