



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 BKI 07.0026	Page 1 of 5	<u>Certificate history:</u>
Status:	Current	Issue No: 7	Issue 6 (2017-03-16)
Date of Issue:	2019-04-04		Issue 5 (2015-09-08)
Applicant:	Cooper Crouse Hinds GmbH Neuer Weg Nord 49 D-69412 Eberbach Germany		Issue 4 (2013-11-27)
Equipment:	Electric switchgear box		Issue 3 (2012-06-11)
Optional accessory:	Type C3....		Issue 2 (2009-02-10)
Type of Protection:	General requirements, Flameproof enclosures, Dust explosion protection		
Marking:	Ex d IIC T6 -20 °C ≤ Tamb ≤ +55°C Ex tD A21 IP67 T 85 °C		

Approved for issue on behalf of the IECEx
Certification Body:

Edit Molnár

Position:

Head of the Certification Body

Signature:
(for printed version)

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:

Testing Station for Explosion Proof Equipment
H 1037 BUDAPEST
MIKOVINY S.u. 2-4
Hungary





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Manufacturer: **Cooper Crouse-Hinds S.A.**
Avda. Santa Eulalia, 290
08223 TERRASSA (BARCELONA)
Spain

Additional manufacturing locations: **Cooper Crouse-Hinds GmbH**
Neuer Weg Nord 49
D-69412 Eberbach
Germany

Cooper Electric (Changzhou) Co. Ltd.
No. 189 Liuyanghe Road, Xinbei
District, Changzhou, Jiangsu, China 213031
China

Cooper Korea Ltd.
22-5, Seogu-dong, Hwaseong-si
Gyeonggi-do, Kyunggi-do
Korea, Republic of

Eaton Electrical (Australia) Pty. Ltd.
10 Kent Road
Mascot, NSW 2020
Australia

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 60079-0:2004 Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
Edition:4.0

IEC 60079-1:2003 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:5

IEC 61241-0:2004 Electrical apparatus for use in the presence of combustible dust - Part 0: General requirements
Edition:1

IEC 61241-1:2004 Electrical apparatus for use in the presence of combustible dust - Part 1: Protection by enclosures "tD"
Edition:1

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 Reports:

[HU/BKI/ExTR07.0025/00](#)

[HU/BKI/ExTR07.0025/02](#)

Quality Assessment Reports:

[AU/TSA/QAR06.0020/11](#)
[GB/BAS/QAR07.0041/09](#)

[DE/BVS/QAR11.0009/09](#)
[GB/BAS/QAR10.0015/06](#)

[DE/BVS/QAR13.0001/06](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Flameproof boxes intended to incorporate electric switchgear, electronic circuits or terminals.

See details in Addendum to IECEx BKI 07.0026.

SPECIFIC CONDITIONS OF USE: NO



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 1:

Reference documentation was changed. See details in Addendum to IECEx BKI 07.0026 1.a.

Issue 2:

New manufacturing locations were added (Cooper Business Enterprise Shanghai and Cooper Electrical Australia Pty Ltd.)

Issue 3:

New manufacturing location was added: Cooper Korea Ltd., The Republic of Korea

The company name of Cooper Business Enterprise (Shanghai) Ltd. was changed to Cooper Electronic Technologies (Shanghai) Co., Ltd.

Issue 4:

New QAR: DE/BVS/QAR13.0001/00 (Cooper Crouse-Hinds S.A., Spain)

Issue 5:

Updated the address for the Australia manufacturing locations.

The location and address of the Australian manufacturing site changed.

Cooper Electrical Australia Pty Ltd. moved to Mascot, NSW.

The new exact address of Cooper Electrical Australia Pty Ltd. is:

Cooper Electrical Australia Pty Ltd.

10 Kent Road, Mascot, NSW, 2020, Australia

The QAR of the new location: AU/TSA/QAR06.0020/08

Issue 6:

The name and the location address of the Chinese manufacturing site changed

from

COOPER Electronic Technologies (Shanghai) Co. Ltd. No.955 Sheng Li Road, Pudong, Shanghai, 201201

to

Cooper Electric (Changzhou) Co. Ltd., No. 189 Liuyanghe Road, Xinbei District, Changzhou, Jiangsu, China 213031

The IECEx QAR of the manufacturing site: GB/BAS/QAR07.0041/07

Issue 7:

Cooper Crouse-Hinds GmbH, Germany is added as a new manufacturing location.

The address of manufacturing location Cooper Crouse-Hinds GmbH:

Neuer Weg Nord 49, D-69412 Eberbach, Germany

The IECEx QAR of the manufacturing location Cooper Crouse-Hinds GmbH: DE/BVS/QAR11.0009/09



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The name of the Australian manufacturing location is changed from

Cooper Electrical Australia Pty Ltd.

to

Eaton Electrical (Australia) Pty Ltd.

The IECEx QAR of the manufacturing location Eaton Electrical (Australia) Pty Ltd.: AU/TSA/QAR06.0020/11

Clarification of the Manufacturer's name:

deleting Cooper Crouse Hinds Division as the official manufacturer's name is: Cooper Crouse-Hinds S.A.

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Annex:

[Addendum to IECEx BKI 07.0026.pdf](#)

1. Description

Flameproof boxes intended to incorporate electric switchgear, electronic circuits or terminals. They are made of aluminium alloy with cylindrical shape, having the following dimensions:

C 30 108 × 108 × 90 mm
 C 31 150 × 150 × 104 mm
 C 31A 150 × 150 × 147 mm

2. Type assortment

C3 xxxx

Legend of the signs from left to right

- 1._ 2._ Code for flameproof enclosures type
- 3._ Code for design, acc. dimensions
 type C 30
 type C 31
 type C 31
- 4._ signs T = three equal entries in position like "T"
 X = four equal entries in position like "X"
 - = Other entries combinations (C30 max. 4 entries; C31 and C31A max. 8 entries)
- 5._ Cable entries size 1 = ½" NPT/ISO
 2 = ¾" NPT/ISO
 3 = 1" NPT/ISO

3. General parameters

Characteristics and use

Type	Utilization, contain	Characteristics
C30*	Connecting terminal	$U_{MAX} = 750 \text{ V}$ $I_{MAX} = 40 \text{ A}$
C31*	Connecting terminal	$U_{MAX} = 750 \text{ V}$ $I_{MAX} = 61 \text{ A}$
C31A*	Measurement transformers	$I_{MAX} \leq 25/5 \text{ A}$
	Power transformers	$U_{MAX} = 690 \text{ V}$ $S_{MAX} = 350 \text{ VA}$
	Air cut switch gear	$U_{MAX} = 690 \text{ V}$ $I_{MAX} = 25 \text{ A}$
	Fuses	$U_{MAX} = 690 \text{ V}$ $I_{MAX} = 25 \text{ A}$
	Electronic devices with capacitors up to 2000 uF with discharge resistance, for a maximum period of time of 3 seconds, without cells nor bateries	$U_{MAX} = 230 \text{ V}$ $I_{MAX} = 5 \text{ A}$ $P_{MAX} \text{ dissipated} = 25 \text{ W}$
	Equipment for discharge lamps	$U_{MAX} = 230 \text{ V}$ $P_{MAX} = 125 \text{ W}$

Dissipated power inside for a temperature class T6:

$P_{MAX} \leq 35 \text{ W}$ for ambient temperature 40 °C

$P_{MAX} \leq 20 \text{ W}$ for ambient temperature 55 °C

* = T three cable entries holes or

X four cable entries holes

4. Ambient temperature

-20 °C ≤ Tamb ≤ +55 °C

5. Ingress protection IP67 to IEC 60529

Drawing		Rev.	Date
Description nr.	C3.doc (6pp)	0	2001-11-20
Drawings n°:	N115112A0001	A	2001-11-20
	N115112A0002	A	2001-11-20
	N115113A0003	A	2001-11-20
	N115114A0003	A	2001-11-20
	9CCN511112A0058	A	2001-11-20
Schemas n°:	947294	-	1995-12-01
	947295	-	1995-12-01
	947296	-	1995-12-01
Operating instructions	5 page		2003.02.15.
Test protocol (ingress protection) No.	150113		1993.10.28.