



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

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

Certificate No.:	IECEx BKI 07.0026	Issue No: 4	Certificate history:
Status:	Current	Page 1 of 4	Issue No. 4 (2013-11-27)
Date of Issue:	2013-11-27		Issue No. 3 (2012-06-11)
			Issue No. 2 (2009-02-10)
			Issue No. 1 (2008-07-16)
			Issue No. 0 (2007-07-10)
Applicant:	Cooper Crouse Hinds Division Cooper Crouse-Hinds, SA Avda. Santa Eulalia, 290 08223 TERRASSA (BARCELONA) SPAIN Spain		
Electrical Apparatus:	Electric switchgear box		
Optional accessory:	Type C3....		
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:

János Fejes

Position:

managing director

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 the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

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





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Certificate No: IECEx BKI 07.0026

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Page 2 of 4

Manufacturer: **Cooper Crouse Hinds Division**
Cooper Crouse-Hinds, SA
Avda. Santa Eulalia, 290
08223 TERRASSA (BARCELONA) SPAIN
Spain

Additional Manufacturing
location(s):

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

COOPER Electrical Australia Pty. Ltd.
205-209 Woodpark Road
Smithfield NSW 2164
Australia

Cooper Business Enterprise Shanghai
955 Sheng Li Road
Heqing Pudong
Shanghai 201201
China
China

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 electrical apparatus 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 Edition: 4.0	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
IEC 60079-1 : 2003 Edition: 5	Electrical apparatus for explosive gas atmospheres - Part 1: Flameproof enclosure 'd'
IEC 61241-0 : 2004 Edition: 1	Electrical apparatus for use in the presence of combustible dust - Part 0: General requirements
IEC 61241-1 : 2004 Edition: 1	Electrical apparatus for use in the presence of combustible dust - Part 1: Protection by enclosures "tD"

*This Certificate **does not** indicate compliance with electrical 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:

HU/BKI/ExTR07.0025/00

HU/BKI/ExTR07.0025/02

Quality Assessment Report:

DE/BVS/QAR13.0001/00
GB/BAS/QAR07.0041/01

AU/TSA/QAR06.0020/02
GB/BAS/QAR10.0015/01

AU/TSA/QAR06.0020/03



IECEx Certificate of Conformity

Certificate No: IECEx BKI 07.0026

Issue No: 4

Date of Issue: 2013-11-27

Page 3 of 4

Schedule

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.

CONDITIONS OF CERTIFICATION: NO



IECEx Certificate of Conformity

Certificate No: IECEx BKI 07.0026

Issue No: 4

Date of Issue: 2013-11-27

Page 4 of 4

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

New QAR: DE/BVS/QAR13.0001/00

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 batteries	$U_{MAX} = 230 \text{ V}$ $I_{MAX} = 5 \text{ A}$ $P_{MAX} \text{ dissipated} = 25 \text{ W}$
	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.