



(1) **EC-TYPE EXAMINATION CERTIFICATE**

(2) Equipment or protective system intended for use in potentially explosive atmospheres
Directive 94/9/EC

(3) EC-Type Examination Certificate number: **LOM 02ATEX2037**

(4) Equipment or Protection System Electric switchgear box
Type C3...

(5) Applicant: Cooper, Crouse-Hinds Division, CEAG
CEAG Nortem, S.A.

(6) Address: Avda. Santa Eulalia, 290
08223 TARRASA (BARCELONA)
SPAIN

(7) This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.


(8) Laboratorio Oficial J.M. Madariaga (LOM), notified body number 0163 in accordance with Article 9 of the Directive 94/9/EC of the European Parliament of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II to the Directive.
The examination and test results are recorded in confidential report nr. **LOM 01.367 PP**

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
- Standards **EN 50014:1997 + A1:1999 + A2:1999**
 EN 50018:2000
 EN 50281-1-1: 1998

(10) If the sign X is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in this certificate schedule.

(11) This EC-Type Examination Certificate relates only to the design and construction of this specified equipment or protective system in accordance with the Directive 94/9/EC. Further requirements of the Directive applies to the manufacture and supply of this equipment or protective system. These are not covered by this certificate.

(12) The marking of the equipment or protective system shall include the following:

 II 2 G D EEx d IIC T6
IP67 T85 °C
Ta: -20 °C / +55 °C



Carlos Fernández Ramón
DIRECTOR OF THE LABORATORY



Madrid, 7 October 2002



Angel Vega Remesal
Head of ATEX area

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LABORATORIO OFICIAL J. M. MADARIAGA

(A1) SCHEDULE

(A2) EC-Type Examination Certificate: **LOM 02ATEX2037**

(A3) Description of equipment or protective system

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

C30* 108x108x90 mm
C31* 150x150x104 mm
C31A* 150x150x147 mm

* = T three cable entries holes
* = X four cable entries holes

Characteristics and use

Type	Utilization, contain	Characteristics
C30*	Connecting terminal	$U_{MAX} = 750 \text{ V}$ $I_{MAX} = 40 \text{ A}$
C31* C31A*	Connecting terminal	$U_{MAX} = 750 \text{ V}$ $I_{MAX} = 61 \text{ A}$
	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

(A4) Test report: n° **LOM 01.367 PP**

(A5) Individual test

These enclosures do not request individual pressure test due to have been submitted to four times reference pressure during the overpressure test.

(A6) Special conditions for safe use

None

(A7) Essential Health and Safety Requirements

Explosion safe requirements are covered by application of the standards indicated in page 1/3 of this certificate.



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(A1) SCHEDULE

(A2) EC-Type Examination Certificate: **LOM 02ATEX2037**

(A8) Descriptive documents:

	<u>Rev.</u>	<u>Date</u>	
Description nr. C3.doc (6 pp)	0	2001-11-20	
Drawings n°:	N115112A0001	A	2001-11-20
	N115112A0002	A	2001-11-20
	N115112A0003	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



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(1) EC-TYPE EXAMINATION CERTIFICATE SUPPLEMENT

(2) Equipment or protective system intended for use in potentially explosive atmospheres. Directive 94/9/EC

(3) Supplement nr. 1 of EC-Type Examination Certificate: LOM 02ATEX2037

(4) Equipment or protective system Electric switchgear boxes Types C3...

(5) Applicant COOPER Crouse-Hinds

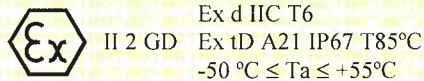
(6) Address Avda. Santa Eulalia, 290 08223-TERRASSA (BARCELONA) ESPAÑA

(7) Test report nr.: LOM 08.124 MP

(8) Variations included in this certificate

- 1 Update to the standards EN 60079-0:2006, EN 60079-1:2007, EN 61241-0:2006 and EN 61241-1:2004
2 Update of the manufacturer/applicant name
3 To extend the range of ambient temperature: -50 °C ≤ Ta ≤ +55°C

(9) Changes in marking



(10) Changes in the individual test

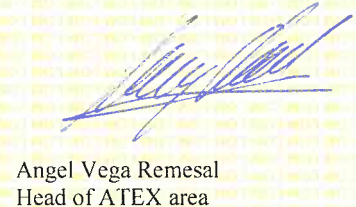
Enclosures marked with -20 °C ≤ Ta ≤ +40°C or -20 °C ≤ Ta ≤ +55°C do not require individual pressure test due to have been submitted to four times reference pressure during the overpressure test

Enclosures marked with -50 °C ≤ Ta ≤ +40°C must be submitted to overpressure individual test at 1.84 MPa

(11) Descriptive documents

Table with 3 columns: Description nr./Drawings nr., Rev., Date. Rows include C3.E1, N115112B0001, N115112B0002, N115113B0003, N511112B0058, CCH-0805009.

Madrid, 25th November, 2008



This supplement must be an inseparable part together with the base certificate LOM 02ATEX2037

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(1) EC-TYPE EXAMINATION CERTIFICATE SUPPLEMENT

(2) Equipment or protective system intended for use in potentially explosive atmospheres
Directive 94/9/EC

(3) Supplement nr. 2 to EC-Type Examination Certificate LOM 02ATEX2037

(4) Equipment or Protection System Electric switchgear boxes
Types C3.

(5) Manufacture COOPER Crouse-Hinds

(6) Address Avda. Santa Eulalia, 290
08223-TERRASSA (BARCELONA)
SPAIN

(7) Test report nr.: LOM 15.378 MP

(8) Variations included in this certificate

- Update to the standards EN 60079-0:2012, EN 60079-1:2014, EN 60079-31:2014

- Update of the variant nomenclature

C3

Variant

0 = 108 x 108 x 90 mm

1 = 150 x 150 x 104 mm

1A = 150 x 150 x 147 mm

Code of number and type of cable entries

Ambient temperature

LT = -20°C ≤ Ta ≤ +55°C 6 -20°C ≤ Ta ≤ +40°C

LT = -50°C ≤ Ta ≤ +55°C 6 -50°C ≤ Ta ≤ +40°C

- Update of the characteristics table according use

Variant	Use, contents	Characteristics
C30, C31, C31A	Electric/electronic equipment having heat dissipation With up to 2000 uF capacitors with discharge resistance for a maximum time of 3 s.	Maximum dissipated power: 20 W con Ta ≤ +55°C 35 W con Ta ≤ +40°C U _{MAX} = 690 V I _{MAX} = 5 A
C30	Terminals	U _{MAX} = 690 V I _{MAX} = 40 A
C31, C31A	Terminals	U _{MAX} = 690 V I _{MAX} = 61 A
C31, C31A	Measurement transformers	U _{MAX} = 690 V I _{MAX} = 25 A
C31, C31A	Power transformers	U _{MAX} = 690 V S _{MAX} = 350 VA
C31, C31A	Fuses	U _{MAX} = 690 V I _{MAX} = 25 A
C31A	Equipment for discharge lamps.	U _{MAX} = 250 V P _{MAX} = 125 W

- Manufacture of the enclosure with new aluminium alloys with equivalent to or better mechanical strength

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LABORATORIO OFICIAL J. M. MADARIAGA

(3) Supplement nr. **2** to EC-Type Examination Certificate **LOM 02ATEX2037**

(9) Changes in marking



II 2 G Ex d IIC T6 Gb
II 2 D Ex tb IIIC T85°C Db

(10) Changes in individual tests

None

(11) Descriptive documents

Technical description

Rev.	Date
0	2016-02-12

Drawings nr.:		Date
N115112D0001	D	2016-02-01
N115112D0002	D	2016-02-01
N115113D0003	D	2016-02-01
N115114B0003	B	2016-02-01
N601114-0213		2016-01-18

Getafe

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CARLOS (FIRMA)
2016.04.13 08:52:18 +02'00'

Head of Certification Committee