



- (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 03ATEX2004 X**
- (4) Equipment or Protection System Boxes for electrical apparatus  
Type EJ...
- (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 02.003 BP**
- (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 + A1:2002**
- (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 the schedule to this certificate.
- (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 2G

EEx d IIB T4..T6

Ta: -20 °C / +55 °C

Carlos Fernández Ramón  
DIRECTOR OF THE LABORATORY



Madrid, 3 February 2003

Angel Vega Remesal  
Head of TEX area

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# LABORATORIO OFICIAL J. M. MADARIAGA

## (A1) SCHEDULE

(A2) EC-Type Examination Certificate: **LOM 03ATEX2004 X**

### (A3) Description of equipment or protective system

Boxes for electrical apparatus based on empty boxes with same denomination that include the same external accessories and having got the component certificate LOM 02ATEX3060U.

Types and sizes are the same as indicated in the component certificate

These boxes can include the following electrical devices and apparatus:

- Bus bars
- Terminals
- Low voltage transformers
- Air circuit-breakers
- Automatic circuit-breakers
- Control and operation circuits
- Servomotors without ventilation
- Starters and ballasts for discharge lamps
- Electronic apparatus

Included capacitors have a discharge time less than 3 s, by means of parallel resistors when necessary. In any case is permitted to include cells and batteries.

Electrical components inside enclosure are assembled in all cases following the requirements of paragraph D.2.2 of EN 50018:2000 standard.

Thermal class is determined according dissipated power (in W) inside the enclosure as show in following table:

Type	Ta: -20 / + 40 °C			Ta: -20 / + 55 °C		
	T4	T5	T6	T4	T5	T6
EJB 12.	100	60	30	83	43	18
EJB 14.	240	140	80	200	100	50
EJB 23.	240	140	60	200	100	35
EJB 110	295	170	125	245	120	75
EJB 120	480	270	150	400	195	90
EJB 121	500	280	150	415	200	90
EJB 130	590	340	200	490	245	125
EJB 131	610	350	200	505	250	125
EJB 240/241.	700	400	250	580	290	155
EJW 250	560	340	250	465	250	155
EJW 251	850	520	380	700	380	235
EJW 350	850	520	380	700	380	235
EJW 351	1000	600	450	840	450	280
EJW 561	1000	730	600	400	600	1000

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# LABORATORIO OFICIAL J. M. MADARIAGA

(A1) **SCHEDULE**

(A2) EC-Type Examination Certificate: **LOM 03ATEX2004 X**

(A3) Description of equipment or protective system (continue)

Maximum rated voltage: 690 V  
Maximum current: 1200 A

(A4) Test report nr: **LOM 02.003 BP**

(A5) Special conditions for safe use

Same as indicated in component certificate LOM 02ATEX3060U

(A6) Individual tests

Same as indicated in component certificate LOM 02ATEX3060U

(A7) Essential Health and Safety Requirements

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

(A8) Descriptive documents:

	<u>Rev.</u>	<u>Date</u>
- Technical description	0	2002-11-21

and the documents listed in component certificate LOM 02ATEX3060U



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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 to EC-Type Examination Certificate number: **LOM 03ATEX2004 X**
- (4) Equipment or Protection System                      Empty enclosures  
Type EJ...
- (5) Applicant    Cooper, Crouse-Hinds Division, CEAG  
CEAG Nortem, S.A.
- (6) Address    Avda. Santa Eulalia, 290  
08223 TARRASA (BARCELONA)  
SPAIN
- (7) This certificate supplement increases the scope of certificate LOM 03ATEX2004 X to include variants as specified in the annex to this certificate supplement and listed documents.
- (8) The examination and test results are recorded in confidential report nr. **LOM 03.138 SP**

This supplement must be an inseparable part together base certificate.

Carlos Fernández Ramón  
DIRECTOR OF THE LABORATORY



Madrid, 27 Mars 2003

Angel Vega Remesal  
Head of ATEX area

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# LABORATORIO OFICIAL J. M. MADARIAGA

(A1) **ANNEX**

(A2) Supplement nr. 1 to EC-Type Examination Certificate number: **LOM 03ATEX2004 X**

(A3) Variations included in this supplement


To include inside enclosures commercial intrinsically safe associated apparatus based on 94/9/EC directive, but neither including cells nor batteries.

Wiring and apparatus distribution is detailed in applicant descriptive documents.


Ambient temperature will be  $T_a: -20\text{ }^\circ\text{C} / +55\text{ }^\circ\text{C}$ . This temperature will be restrained to standard range  $T_a: -20\text{ }^\circ\text{C} / +40\text{ }^\circ\text{C}$  when at least one apparatus is not foreseen for extended ambient temperature.

(A4) Marking variations


Depending on the category of the incorporated elements the marking will have to include, among others:

 II 2(2) G

EEx d [ib] IIB T6

 II 2(1) G

EEx d [ia] IIB T6

 II 2(1/2) G

EEx d [ia/ib] IIB T6

And the specific parameters related with intrinsic safety type of protection.

(A5) Test repor nr: **LOM 03.138 SP**

(A5) Special conditions for safe use

- 1 The special conditions for safe use indicated in the certificates of intrinsically safe associated apparatus.
- 2 The manufacturer will have to determine, when there are combined different circuits of intrinsic safety, the specific parameters of the type of protection as indicated in standards EN 50020 and EN 50039.
- 3 Only there is allowed the incorporation of associate apparatus and execution of the wired up boarder by the manufacturer.

(A7) Essential Health and Safety Requirements

No change

(A8) Descriptive documents

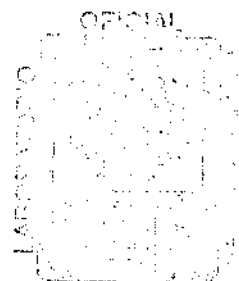
Drawing nr. N117112-004.es

Rev.

-

Date

2003-03-03





(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** of EC-Type Examination Certificate: **LOM 03ATEX2004 X**

(4) Equipment or protective system: Boxes for electrical apparatus  
Type EJ...

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

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

(7) Test report: **LOM 04.656 CP**

(8) Variations included in this certificate

- To increase the use for an ambient temperature Ta: -35 °C /+55 °C for the model EJB 110
- To increase the use for an ambient temperature Ta: -50 °C /+55 °C for the model EJB 23

(9) Marking changes

Change to the marking: Ta: -35 °C /+55 °C or Ta: -50 °C /+55 °C according to variants

(10) Change in individual tests

Each manufactured unit must be submitted to overpressure test according paragraph 15.1.3 of EN 50018:2000:

- 1650 kPa for boxes type EJB 110
- 2020 kPa for boxes type EJB 23

(11) Descriptive documents

- Description nr. Low temperature EJB's.doc

Rev.	Date
-	2004-12-21

Madrid, 23th February 2005

Carlos Fernández Ramón  
DIRECTOR OF THE LABORATORY



Angel Vega Remesal  
Head of ATEX area

This supplement must be an inseparable part together with the base certificate **LOM 03ATEX2004 X**  
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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. 3 of EC-Type Examination Certificate: LOM 03ATEX2004 X

(4) Equipment or protective system Boxes for electrical apparatus Type EJ...

(5) Applicant COOPER Crouse-Hinds

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

(7) Test report nr.: LOM 08.234 SP

(8) Variations included in this certificate

- 1 Update to the standards EN 60079-0:2006, EN 60079-1:2007 and EN 60079-11:2007
2 Update of the manufacturer/applicant name
3 To extend the use in order to include ignition transformers with output up to 8 kV

(9) Changes in marking

II 2 G Ex d IIB T4..T6

II 2(2) G Ex d[ib] IIB T4..T6

II 2(1) G Ex d[ia] IIB T4..T6

II 2(1/2) G Ex d[ia/ib] IIB T4..T6

Temperature classes, surface temperatures and ambient temperature ranges are indicated in the base certificate and previous supplements.

(10) Descriptive documents

Table with 4 columns: Description, Rev., Date, and a blank column. Rows include EJ\_Extension3, NOR000777DA0071, NOR000777DA0084, and CCH-0805002.

Madrid, 13th March, 2009

Signature of Carlos Fernández Ramón, Director of the Laboratory

Signature of Angel Vega Remesal, Head of ATEX area

This supplement must be an inseparable part together with the base certificate LOM 03ATEX2004 X

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