



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

(2) Component intended for use on/in equipment or protective system intended for use in Potentially explosive atmospheres. Directive 94/9/EC

(3) EC-Type Examination Certificate number **LOM 02ATEX3060U**

(4) Component 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 component 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 component has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of components 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

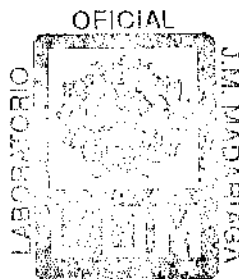
(10) The sign "U" placed after the certificate number indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system.

(11) This EC Type examination certificate relates only to the design, examination and tests of the specified component in accordance to the directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this component. These are not covered by this certificate.

(12) The marking of the component shall include the following:

 II 2G EEx d IIB

Carlos Fernández Ramón
DIRECTOR OF THE LABORATORY



Madrid, 30 December 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 02ATEX3060U**

(A8) Description of the certificated component

Empty flameproof enclosures having cover fixed by screws.

The are made on: aluminium cast, types EJB...
welded steel, types EJW...

Type	Dimensions (mm)			Observations (*)
	Large	Width	Height	
EJB 12 R	224	137	93	A
EJB 12 A	224	137	132	A
EJB 14 R	420	160	131	A
EJB 23 R	331	217	201	A
EJB 110	355	355	214	B
EJB 120	355	355	214	B
EJB 120 M3	462	355	214	B, C
EJB 120 M4	462	355	214	B, C
EJB 121	462	355	284	B
EJB 130	566	355	214	B
EJB 131	566	355	284	B
EJB 240	671	458	214	B
EJB 241	671	458	284	B
EJB 241 M1	671	458	284	B, C
EJB 241 M2	671	458	284	B, C
EJW 250	890	425	280	B
EJW 251	890	425	440	B
EJW 350	890	540	322	B,D
EJW 351	890	540	446	B,D
EJW 561	1280	765	386	B,D
EJW 561	1290	775	400	B,E

(*) A = cover without hinges B = cover with hinges C= permanent glass window cover
D = steel E= stainless steel



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(A1) **SCHEDULE**

(A2) EC-Type Examination Certificate: **LOM 02ATEX3060U**

(A3) Description of the certificated component (continue)

Covers can include:

- Push buttons
- Mini-pushbuttons and rotary actuators
- Rotary actuators for electrical switchgear
- Framed glass windows

having the disposition and number of elements as described in technical documents of the manufacturer.

Empty enclosures can be combined between them by means of cable bushings type PCx.x of this manufacturer. The can have a rated current up to 150 A per phase.

Also, they can combined using external strikethrough bars up to 1200 A or strikethrough cable attachments for control signals. This kind of bushes require additional mechanical devices for enclosure fixing.

This boxes can include sockets outlets of manufacturer on the lateral walls.

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

(A5) Individual tests

Each manufactured unit must be submitted to a static overpressure test after mechanising of holes for accessories and cable entries holes according 15.1.3.1 of EN 50018:2000. Test pressures will be:

- 1170 kPa in types EJB 12, 110, 120, 130 and 240
- 1280 kPa in types EJB 121, 131 and 241
- 1320 kPa in el types EJB 23
- 1440 kPa in el types EJB 14
- 1250 kPa in el types EJW...

(A6) Essential Health and Safety Requirements

Explosion safety requisites are covered by application of the standards indicated in age 1/4 of this certificate.

(A7) Special conditions for a safe use

- This boxes require special quality fasteners.
- Glass windows are only valid for temperature class T5 and T6.

(A8) Descriptive documents:

	<u>Rev.</u>	<u>Date</u>
- Description nr. Cert_LOM/EJB Comp.	2	2002-11-21
- Drawings nr.:		
N117112B0012	B	2002-11-22
N117112B0013	B	2002-11-22
N117112B0014	B	2002-11-22
N117112B0015	B	2002-11-22
N117112B0016	B	2002-11-22
N117112B0017	B	2002-11-22
N117112B0018	B	2002-11-22
N117113B0003	B	2002-11-22
N117113B0004	B	2002-11-22
N117113B0005	B	2002-11-22
N117113B0006	B	2002-11-22



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LABORATORIO OFICIAL J. M. MADARIAGA

(A1) **SCHEDULE**

(A2) EC-Type Examination Certificate: **LOM 02ATEX3060U**

(A8) Descriptive documents:

	<u>Rev.</u>	<u>Date</u>
- Drawings nr.:		
N117113B0007	B	2002-11-22
N117113B0008	B	2002-11-22
N117113B0010	B	2002-11-22
N117113B0011	B	2002-11-22
N117113A0012	A	2001-11-28
N117113A0013	A	2001-11-28
N117113A0016	A	2001-11-28
N117113B0017	B	2002-11-22
N117113B0023	B	2001-11-28
N117113B0025	B	2001-11-28
N117113A0036	A	2002-11-22
N117114A0004	B	2002-11-22
N117114B0009	B	2002-11-22
N117114B0010	B	2002-11-22
N117114B0023	B	2002-11-22
N117114B0024	B	2002-11-22
N117114B0025	B	2002-11-22
N117114B0026	B	2002-11-22
N117114B0027	B	2002-11-22
N117114B0028	B	2002-11-22
N117114B0030	B	2002-11-22
N117114B0031	B	2002-11-22
N117114B0032	B	2002-11-22
N117114B0033	B	2002-11-22
N117114B0034	B	2002-11-22
N117114B0035	B	2002-11-22
N117114B0036	B	2002-11-22
N117114A0037	A	2002-11-22
N117114A0040	A	2002-11-22
N117114A0041	A	2002-11-22
N117114A0042	A	2001-11-28
N117114B0043	B	2002-11-22
N117114B0045	B	2002-11-22
N117114A0064	A	2002-11-22
N119111A0001	A	2002-11-22
N119112A0001	A	2002-11-22
N119112A0002	A	2002-11-22
N119112A0004	A	2002-11-22
N119112A0005	A	2002-11-22
N119112A0006	A	2002-11-22
N119112A0007	A	2002-11-22
N119113A0001	A	2002-11-22
N119113A0002	A	2002-11-22
N119113A0003	A	2002-11-22
N119113A0004	A	2002-11-22
N119113A0005	A	2002-11-22
935186	C	2001-11-28
935187	C	2001-11-28
935188	C	2001-11-28
935189	C	2001-11-28
937293	A	2001-11-28
946936	-	1992-02-04




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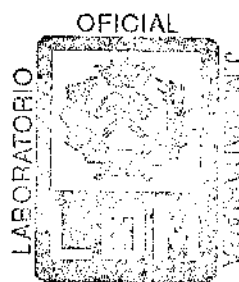
(1) **EC-TYPE EXAMINATION CERTIFICATE SUPPLEMENT**

- (2) Component intended for use on/in 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 02ATEX3060U**
- (4) Component 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 02ATEX3060U 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 03.234 KP**

This supplement must be an inseparable part together base certificate.



Carlos Fernández Ramón
DIRECTOR OF THE LABORATORY



Madrid, 23 April 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 02ATEX3060U**

(A3) Variations included in this supplement

To permit the use of heating elements inside the enclosure.

(A4) Test repor nr: **LOM 03.234 KP**

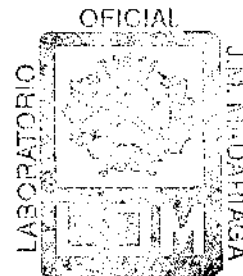
(A5) Essential Health and Safety Requirements

No change

(A6) Descriptive documents

Description nr. EJ.doc

<u>Rev.</u>	<u>Date</u>
-	2003-04-22





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

(2) Component intended for use on/in 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 02ATEX3060U**

(4) Component: Empty enclosures
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 02ATEX3060U**
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(1) **EC-TYPE EXAMINATION CERTIFICATE SUPPLEMENT**

(2) Component intended for use on/in 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 02ATEX3060U**

(4) Component Empty boxes
Type EJ...

(5) Manufacturer COOPER Crouse-Hinds


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

(7) Test report nr.: **LOM 09.426 OP**

(8) Variations included in this certificate

1 Update to the standards EN 60079-0:2006, EN 60079-7:2007 and EN 60079-18:2004
2 Update of the manufacturer address
3 Update of documentation

(9) Changes in marking

 II 2G Ex d IIB

(10) Descriptive documents

	Rev.	Date
- Description nr.: EJ-Ext. Nr. 3	0	2009-08-14
- Drawings nr.:		
N117112C0012	C	2009-07-07
N117112C0013	C	2009-07-07
N117112C0014	C	2009-07-07
N117112D0015	D	2009-07-07
N117112C0016	C	2009-07-07
N117112C0017	C	2009-07-07
N117112C0018	C	2009-07-07
N117113C0003	C	2009-07-07
N117113C0004	C	2009-07-07
N117113C0005	C	2009-07-07
N117113C0006	C	2009-07-07
N117113C0007	C	2009-07-07
N117113C0008	C	2009-07-07
N117113C0010	C	2009-07-07
N117113C0011	C	2009-07-07
N117113C0017	C	2009-07-07
N117113C0023	C	2009-07-07
N117113C0025	C	2009-07-07
.../..		

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(3) Supplement nr. 3 of EC-Type Examination Certificate **LOM 02ATEX3060U**

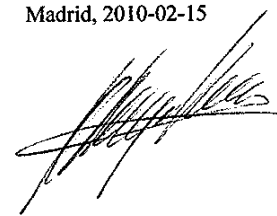
(10) Descriptive documents (continued)

	<u>Rev.</u>	<u>Date</u>
- Drawings nr.: N117114C0009	C	2009-07-07
N117114C0010	C	2009-07-07
N117114C0023	C	2009-07-07
N117114C0024	C	2009-07-07
N117114C0025	C	2009-07-07
N117114C0026	C	2009-07-07
N117114C0027	C	2009-07-07
N117114C0028	C	2009-07-07
N117114C0030	C	2009-07-07
N117114C0031	C	2009-07-07
N117114C0032	C	2009-07-07
N117114C0033	C	2009-07-07
N117114C0034	C	2009-07-07
N117114C0035	C	2009-07-07
N117114C0036	C	2009-07-07
N117114C0037	B	2009-07-07
N117114C0040	B	2009-07-07
N117114C0041	B	2009-07-07

Madrid, 2010-02-15



Carlos Fernández Ramón
DIRECTOR OF THE LABORATORY



Angel Vega Remesal
Head of ATEX area