



# LABORATORIO OFICIAL J. M. MADARIAGA



## (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 04ATEX2018**

(4) Equipment or Protection System      Electrical apparatus boxes  
Type GUB...

(5) Applicant                                      Cooper, Crouse-Hinds Division, CEAG  
CEAG Norton, 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 03.405 ZP**


(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**  
                                      **EN 50231-1-1:1998 + A1:2002**

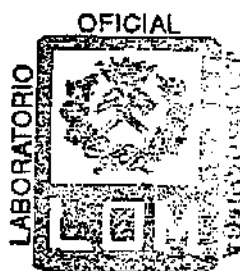
(10) If the sign X is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in this certificate schedule.

(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 GD    EEx d UC T4..T6    IP67    T(\*) °C    Ta: -20 °C / +55 °C

  
Carlos Fernández Ramón  
DIRECTOR OF THE LABORATORY



Madrid, 3 March 2004

  
Angel Vega Remesal  
Head of ATEX area

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Page 1/3



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## (A1) SCHEDULE

(A2) EC-Type Examination Certificate: **LOM 04ATEX2018**

(A3) Description of equipment or protective system

Electrical switch gear boxes based on the same denomination empty boxes, including external accessories, with component certificate LOM 03ATEX3107U.

Types and sizes are the same that indicated in component certificate.

The electrical devices that the manufacturer can include inside the enclosure are:

- 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
- Associated intrinsic safety apparatus

The capacitors inside the enclosure will be a discharge time lower than 3 s by the use of parallel resistors when it is necessary. In any case are permitted cells or batteries.

Temperature class is in dependence of dissipated power (in W) inside the enclosure according the following table:

| Temperature class | Surface temperature | GUB-0.                       |                              | GUB-2.                       |                              | GUB-3.                       |                              |
|-------------------|---------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
|                   |                     | $T_{amb}=40^{\circ}\text{C}$ | $T_{amb}=55^{\circ}\text{C}$ | $T_{amb}=40^{\circ}\text{C}$ | $T_{amb}=55^{\circ}\text{C}$ | $T_{amb}=40^{\circ}\text{C}$ | $T_{amb}=55^{\circ}\text{C}$ |
| T6                | T85°C               | 60                           | 35                           | 100                          | 55                           | 140                          | 70                           |
| T5                | T105°C              | 85                           | 60                           | 145                          | 100                          | 200                          | 140                          |
| T4                | T135°C              | 150                          | 125                          | 255                          | 205                          | 360                          | 300                          |

These enclosures can contain commercial associate intrinsically safe modules based on 94/9/EC directive. Arrangement of such devices and its wiring is described in manufacturer documents. All the devices must comply with marked ambient temperature  $T_a$ :  $-20^{\circ}\text{C}/+55^{\circ}\text{C}$  or standard ambient temperature  $T_a$ :  $-20^{\circ}\text{C}/+40^{\circ}\text{C}$  according marking of the boxes.

Enclosures that include electronic devices containing batteries of up to 1/100 of the free volume, or capacitors will attach the label "DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT".

Enclosures that include capacitors will attach the label "DON NOT OPEN BEFORE xx s AFTER POWER OFF", where xx is the discharge time.

Electrical characteristics:

Maximum voltage: 750 V

Maximum current: 250 A

Maximum current in bus bars: 150 A



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(A1) **SCHEDULE**

(A2) EC-Type Examination Certificate: **LOM 04ATEX2018**

(A4) Test report: nr. LOM 03.405 ZP

(A5) Special conditions for a safe use

None

(A6) Individual tests

Same as indicated in component certificate LOM 03ATEX3107U

(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> |
|-------------------|-----------------|-------------|-------------|
| - Description nr. | GUB_EQUIPOS.doc | 0           | 2003-07-14  |
| - Drawings nr.    | N116113A0006    | A           | 1996-11-21  |
|                   | N116113-0019    | A           | 1996-06-18  |
|                   | N116114A0022    | A           | 2003-07-14  |
|                   | N116114A0023    | A           | 2003-07-14  |
|                   | N116114A0026    | A           | 1996-07-04  |
|                   | N117112C0022    | C           | 2004-01-27  |
|                   | N601114A0121    | A           | 2003-07-14  |

plus the descriptive documents indicated in component certificate LOM 03ATEX3107U



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