



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 LCI 08.0024X issue No.: 0 Certificate history:

Status: Current

Date of Issue: 2008-12-12 Page 1 of 4

Applicant: **A.T.X.**
E.I.N. rue André DUROUCHEZ
80084 AMIENS CEDEX 2
France

Electrical Apparatus: **Flameproof machine welded steel enclosures type CMS...**
Optional accessory:

Type of Protection: **d, d[ia] ou d[ib], tD**

Marking: **A.T.X. - APPLETON**
Address : ...
Type : CMS..
Serial number : ...Year of manufacturing : ...
Ex d IIB T... or Ex d[ia] or d[ib] IIB T... (see temperature tables)
Ex tD A21 IP 66 T135°C
T.amb. : -20°C to + 55°C
IECEx LCI 08.0024 X
WARNING - DO NOT OPEN WHEN ENERGIZED
AFTER DE-ENERGIZING, DELAY X* MINUTES BEFORE OPENING
Cable spreading temperature : °C
* see temperature tables

Approved for issue on behalf of the IECEx
Certification Body:

Marc GILLAUD

Position:

Ex Certification Manager

Signature:
(for printed version)


12 DEC. 2008

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.

Certificate issued by:

Laboratoire Central des Industries Electriques (LCIE)
33 Avenue du General Leclerc
FR-92260 Fontenay-aux-Roses
France





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Manufacturer: **A.T.X.**
E.I.N. rue André DUROUCHEZ
80084 AMIENS CEDEX 2
France

Manufacturing location(s):

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 : 2007-04 Edition: 6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-11 : 2006 Edition: 5	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
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:

[FR/LCI/ExTR08.0068/00](#)

Quality Assessment Report:

[FR/LCI/QAR07.0008/00](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

These enclosures are provided, by variants of dimensions, in different types : CMS 3, 4, 5, 6, 7, 40 or 50 depending on the increasing size of enclosures,
Each type has its own variants (e.g. CMS3A, CMS4A, CMS41, CMS51...).

These enclosures can be jointed together or with certified increased safety enclosures.

Various electrical parts can be fitted inside each enclosure regarding the internal volume.

Details of the possibilities are defined in the manufacturer's technical file.

Low voltage equipment (terminals, transformers, contactors...): $U_{max} = 1000V\ AC / 1500V\ CC$

High voltage equipment (ignition transformer): $U_{max} = 20kV$

Maximal dissipated power: 90W to 1550W depending on the model and its contents.

CONDITIONS OF CERTIFICATION: YES as shown below:

The addition of intrinsically safe elements shall conform to the conditions described in the manufacturer documents.

According to the content, the dissipated power, a dedicated marking per type enclosure is defined in the attached tables.

After de-energized and time delay before opening, residual energy of each capacitor shall not exceed 60 μJ .



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Additional information:

ROUTINE TESTS

Each single enclosure above defined shall be submitted to overpressure test at below indicated values, according to IEC 60079-1 standard. the period of application of the pressure shall be at least 10 seconds without exceeded 1 minute:

Enclosures type	Overpressure value
CMS3	8,3 bars
CMS4	11,1 bars
CMS5	10,7 bars
CMS6	9 bars
CMS7	8,4 bars
CMS40	12 bars
CMS50	10,2 bars

TEMPERATURE TABLES

The temperature tables are in attachment "CLASSIFICATION TABLES" on IECEx site (www.iecex.com).

Annexe: CLASSIFICATION TABLES.doc