



# 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](http://www.iecex.com)

Certificate No.: IECEx LCI 04.0016X issue No.: 2  
Status: **Current**  
Date of Issue: **2012-06-26** Page 1 of 5

Certificate history:  
Issue No. 2 (2012-6-26)  
Issue No. 1 (2004-12-14)

Applicant: **A.T.X.**  
E.I.N. 35 rue André Durouchez  
CS 98017  
80084 AMIENS CEDEX 2  
France

Electrical Apparatus: **Increased safety boxes - CAe**  
Optional accessory:

Type of Protection: **Increased safety 'e', Flameproof 'd' and Intrinsic safety 'i'**

Marking: ATX - APPLETON  
Amiens - France  
Address : ...  
Type : CAe (1)  
Ex e IIC T6 to T3 Gb (depending of the contents)  
Or Ex d e IIC T6 to T3 Gb (depending of the contents)  
Or Ex ia or ib IIC T6 or T5 Gb (depending of the contents)  
IP66  
IECEX LCI 04.0016 X

$-40^{\circ}\text{C} \leq T_a \leq +55^{\circ}\text{C}$

Maximal dissipated power : ...W  
WARNING – DO NOT OPEN WHEN ENERGIZED

(1): completed by the model


Approved for issue on behalf of the IECEx  
Certification Body:

Julien GAUTHIER

Position:

Ex Certification Officer

Signature:  
(for printed version)

  
2012-06-26

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

Documents relative to LCIE certification activities (Certificates, QARs, ExTRs) can be registered under the references "LCI" or "LCIE".





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E.I.N. 35 rue André Durouchez  
CS 98017  
80084 AMIENS CEDEX 2  
**France**

Manufacturing location(s):

**A.T.X.**  
E.I.N. 35 rue André  
DUROUCHEZ  
CS98017  
80084 AMIENS Cedex 2  
France

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:

<b>IEC 60079-0 : 2007-10</b> Edition: 5	Explosive atmospheres - Part 0: Equipment - General requirements
<b>IEC 60079-1 : 2007-04</b> Edition: 6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
<b>IEC 60079-11 : 2006</b> Edition: 5	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
<b>IEC 60079-7 : 2006-07</b> Edition: 4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

*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*

IECEx ATR:  
**IECEx Test Report**  
**FR/LCIE/ExTR12.0001/00**

File Reference:  
**LCIE 60022699-516394 - issue 0**



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

Increased safety boxes CAe

### DESCRIPTION

Increased safety enclosures declined in 12 models (CAe1 to CAe12), and which are intended to receive the following equipments:

- increased safety terminals,
- intrinsic safety terminals,
- circuit breaker and switch IT40U (IECEx certified LCI 04.0033U)

Components for external connection of electrical circuits (cable glands, adaptators, enlargers, reducers) shall be Ex certified, and shall maintain IP66 degree of protection or at least IP54.

The openings not fitted with cable glands shall be fitted with Ex e certified blanking elements, which maintain IP66 degree of protection, or at least IP54.

These enclosures can be joined together, or to other flameproof enclosures or increased safety enclosures, by guarantying at least to the assemblies an IP54 degree of protection.

### Ratings:

Maximal operating voltage: 1000 VAC and 1500 VDC

Maximal current: 1600 A

### CONDITIONS OF CERTIFICATION: YES as shown below:

1- According to the different contents (nature of equipments, dissipated power, etc.) and operating ambient temperature (up to +55°C), the marking conditions can change.  
Temperature class relative to each chosen configuration shall be determined by following the indications in the manufacturer's descriptive documents.

2- The number and characteristics of equipments shall be adapted so as not to exceed permitted maximal dissipated power of the enclosures.  
The conditions for assembling the enclosures are indicated in the manufacturer's descriptive documents.

3- Creepage distances and clearances of electrical connections shall be respected according to the different voltages.

4- The adjunction of intrinsic safety terminals shall comply with the manufacturer's conditions described in his descriptive documents.

5- The drilling and mounting of accessories carried out by the distributor, or the end user on site, shall be achieved by complying with the rules of increased safety type of protection, and especially:

- respect of creepage distances and clearances according to Table 1 of IEC 60079-7,
- individual examination and test carried out after these operations.

All these operations, as well as individual examinations, are under the responsibility of the manufacturer.



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## EQUIPMENT(continued):

### OTHER INFORMATION

Enclosure's model	Maximal permitted dissipated power	Old certified dimensions	New certified dimensions
CAe1	17 W	211x200x150	215x200x150
CAe2	22 W	320x200x150	320x200x150
CAe3	29 W	422x200x150	425x200x150
CAe4	36 W	575x200x150	575x200x150
CAe5	50 W	380x480x190	380x480x190
CAe6	55 W	400x300x200	400x300x206
CAe7	85 W	500x400x200	500x400x206
CAe8	125 W	600x400x250	610x400x257
CAe9	125 W	700x500x250	700x500x250
CAe10	125 W	800x600x300	820x610x300
CAe11	125 W	1000x800x300	1020x810x300
CAe12	22 W	330x250x160	330x250x160

### ROUTINE TESTS

Each single apparatus above defined must be submitted a dielectric strength test according to paragraph 7.2 of IEC 60079-7 standard.



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## DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

### Issue n°2:

- Normative update according standards IEC 60079-0 ed. 5, IEC 60079-1 Ed.6, IEC 60079-7 Ed.4 and IEC 60079-11 Ed.5
- Updating regarding dimensional properties