

# INERIS

INSTITUT NATIONAL DE L'ENVIRONNEMENT  
INDUSTRIEL ET DES RISQUES

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(2) **Equipment and protection systems intended for use in potentially explosive atmospheres  
Directive 94/9/CE**

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

(3) Number of the EC type examination certificate: **INERIS 00ATEX0043 X**

(4) Protection apparatus or system:

**ACTUATOR SERIES ICON2000 TYPE ICON-.../.../...**  
(The type is completed by numbers and/or letters corresponding to alternatives of execution)

(5) Manufacturer: **BIFFI ITALIA s.r.l.**

(6) Address: **Loc. Caselle S. Pietro  
29017 Fiorenzuola d'Arda (Po)  
ITALY**

(7) This protection system or equipment and any other acceptable alternative of this one are described in the annex of this certificate and the descriptive documents quoted in this annex.

(8) The INERIS, notified body and identified under number 0080, in accordance with article 9 of Council Directive 94/9/CE 23 the Mars 1994, certifies that this protection system or equipment fulfils the Essential of Health and Safety Requirements relating to the design and construction of equipment and protection systems intended for use in potentially explosive atmospheres, described in appendix II of the Directive.

The examinations and the tests are consigned in official report N°15674/00.

(9) The respect of the Essential Health and Safety Requirements is ensured by:


- conformity with:

EN 50 014 of June 1997  
EN 50 018 of August 1994  
EN 50 020 of August 1994  
EN 50 281-1-1 of September 1998

- specific solutions adopted by the manufacturer to meet the Essential Health and Safety Requirements described in the descriptive documents.

(10) Sign X, when it is placed following the Number of the EC type examination certificate, indicates that this equipment and protection system is subjected to the special conditions for safe use, mentioned in the annex of this certificate.

- (11) This EC type examination certificate refers only to the design and the construction of the apparatus or protection system specified. If necessary, other requirements of this Directive will be imposed on the manufacture and the supply of this apparatus or protection system.
- (12) The marking of the equipment or the protection system will have to contain:

 II 2 GD

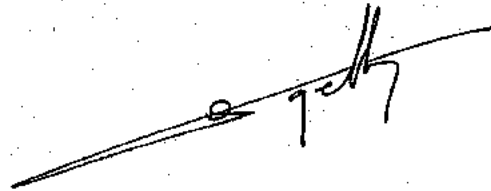
EEx d IIB 135°C (T4) or EEx d ia IIB 135°C (T4)

Verneuil-en-Halatte, 2001 01 09



X. LEFEBVRE

Engineer at the Laboratory of Certification of  
Materials ATEX



The Director of the Organisation Certified,  
By delegation  
B. PIQUETTE  
Deputy manager of Certification



(13)

## ANNEX

(14) EC TYPE EXAMINATION CERTIFICATE N° INERIS 00ATEX0043 X

(15) DESCRIPTION OF THE EQUIPMENT OR THE PROTECTION SYSTEM

The enclosure made in light alloy, is destined to receive mainly an electric motor and an electronic part. A version is envisaged with a compartment containing an intrinsic safety element equipped with a battery.

The motor is fitted with an internal thermal probe put in winding.

The enclosure presents the degrees of protection IP68 according to the European standard EN 60529.

The actuators can be used at an ambient temperature lower than  $-20^{\circ}\text{C}$  (maximum  $-55^{\circ}\text{C}$ )

### PARAMETERS RELATING TO THE SAFETY

For using in ambient temperatures inferior to  $-20^{\circ}\text{C}$  ( $-55^{\circ}\text{C}$  maxi), the manufacturing is previewed by the manufacturer under his responsibility.

Type test have been performed under ambient temperature required by standards

#### Electrical parameters

Supply voltage : from 230 to 480 V  
Frequency : 50/60 Hz

Power of motors : from 0,071 kW to 13,963 kW

The maximum power of motors varies according to the type of the motor and the electric characteristics.

The various powers are specified in the descriptive documents.


#### Thermal probe characteristic equipping the motor :

Limit of release :  $140^{\circ}\text{C} \pm 5^{\circ}\text{C}$ .

**MARKING**

Marking must be readable and indelible; it must comprise the following indications:


A) Actuator without intrinsic safety element :

- **BIFFI ITALIA s.r.l**  
Loc. Caselle S. Pietro  
29017 Fiorenzuola d'Arda (Pc)  
ITALY
- ICON (1)
- INERIS 00ATEX0043 X
- (Serial number, if any)
- (year of construction)
-  II 2 GD
- EEx d IIB 135°C (T4)
- T. Amb : (\*)
- IP68
- DO NOT OPEN ANY COVER WHEN AN EXPLOSIVE GAS ATMOSPHERE MAY BE PRESENT

(1) Type is completed by numbers and/or letters corresponding to alternatives of execution.

(\*) Indication of ambient temperature range when that it is different from -20°C to 40°C.

B) Actuator with intrinsic safety element :

- **BIFFI ITALIA s.r.l**  
Loc. Caselle S. Pietro  
29017 Fiorenzuola d'Arda (Pc)  
ITALY
- ICON (1)
- INERIS 00ATEX0043 X
- (Serial number, if any)
- (year of construction)
-  II 2 GD
- EEx d ia IIB 135°C (T4)
- T. Amb : (\*)
- IP68
- DO NOT OPEN ANY COVER WHEN AN EXPLOSIVE GAS ATMOSPHERE MAY BE PRESENT

(1) Type is completed by numbers and/or letters corresponding to manufacturing variation.

(\*) Indication of ambient temperature range when that it is different from -20°C to 40°C.

On the compartment containing the intrinsic safety circuit :  
EEx ia IIC T4 - IP66

The whole of marking can be carried out in the language of the country of use.

The protection apparatus or system must also carry the marking normally envisaged by the standards of construction which relate to it.

### ROUTINE EXAMINATIONS AND TESTS

Each example of the equipment hardware defined above must have successfully passed before delivery an overpressure test in accordance with section 16.1 of standard EN 50 018, of a period comprised between 10 and 60 seconds under 12 bar.

### (16) DESCRIPTIVE DOCUMENTS

The technical report is composed of the documents quoted hereafter, constituting the descriptive file of the apparatus, object of this certificate.

- Technical note DT-1396 Rév. 1 of 2000.01.08 signed on 2001.01.08
- Instruction manual MAN 618 Rév 0 of 2000.11.16 signed on 2000.11.16
- Plan n° 50080-1 Rév.2 of 29.12.2000 signed on 2000.12.29
- Plan n° 50080-9 Rév.1 of 29.12.2000 signed on 2000.12.29
- Plan n° 50080-10 of 28.12.2000 signed on 2000.12.28
- Plan n° PC4736-4 signed on 2000.12.06
- Plan n° PC4736-3 signed on 2000.12.06
- Plan n° PC4736-2 signed on 2000.12.06
- Plan n° PC4736-1 signed on 2000.12.06
- Plan n° DE4736 signed on 2000.12.06
- Plan n° PC4750 signed on 2000.12.06
- Plan n° DE4750-1 signed on 2000.12.06

### (17) SPECIAL CONDITIONS FOR SAFE USE

- The actuator variations are intended to be used in an ambient temperatures range of -55°C to 85°C.
- The screws used for the assembly of the various parts of explosion-proof enclosures must be of quality higher or equal to 450 N/mm<sup>2</sup>.
- All the certified elements equipping the actuators, in particular the cables entries, could be put on the market until June 30 2003. The actuators put on the market after this date will be equipped with material in conformity with Directive 94/9/EC.

For use in potentially explosive atmospheres due to combustible dust:

- The surface of the different gaps shall be covered with grease, for example silicone and cable entries shall be of a degree of protection at least IP6X.
- User shall perform a regular cleaning of material to limit dust layers on the material sides.

These special conditions are defined in instruction notice.

### (18) ESSENTIAL REQUIREMENTS OF SAFETY AND HEALTH

The respect of the Essential Health and Safety Requirements is ensured by:

- conformity to the European standards EN 50 014, EN 50 018, EN 50 020 and EN 50 281-1-1
- the whole of the provisions adopted by the manufacturer and described in the descriptive documents.

## ADDITION

INERIS 00ATEX0043 X/01

ACTUATOR SERIES ICON2000 TYPE ICON---/...-

Manufactured by BIEFFI

(15) - PURPOSE OF THE ADDITION

Exemption of the routine test.

PARAMETERS RELATING TO THE SAFETY

The parameters relating to the safety stipulated by the basic certificate are unchanged.

MARKING

The marking defined in the basic certificate is unchanged.

ROUTINE EXAMINATIONS AND TESTS

The actuators, defined below by the descriptive documents, are exempted of the routine test stipulated by the basic certificate. The actuators have been performed a type test under four times the reference pressure.

(16) - DESCRIPTIVE DOCUMENTS

The documents referred to below, constitute the file describing the modifications of the apparatus and forming the subject of the present addition.

- |  |                      |
|--|----------------------|
| - Technical note DT-1396-1 of 2002.03.06 | signed on 2002.03.06 |
| - Plan n° 50080-1 Rev.3 of 2002.02.20    | signed on 2002.02.20 |
| - Plan n° 50080-9 Rev.2 of 2001.02.20    | signed on 2002.02.20 |

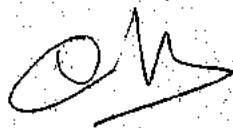
(17) - SPECIFIC PARAMETERS OF THE TYPES OF PROTECTION CONCERNED

The special conditions for safe use defined in the basic certificate are unchanged.

**(18) ESSENTIAL REQUIREMENTS OF SAFETY AND HEALTH**

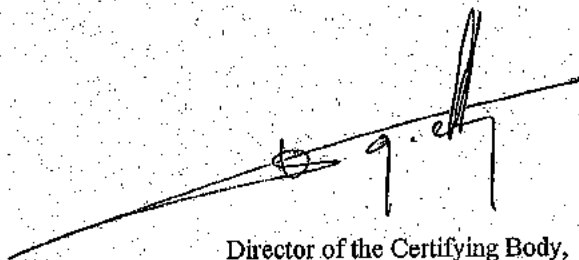
The respect of the Essential Health and Safety Requirements defined in the basic certificate is unchanged.

Verneuil-en-Halatte, 2002 03 13



X. LEFEBVRE

Engineer at the Laboratory of Certification of  
Materials ATEX



Director of the Certifying Body,  
By delegation  
B. PIQUETTE  
Deputy manager of Certification.



## ADDITION

INERIS 00ATEX0043X/02

ACTUATOR SERIES ICON2000 TYPE ICON-.../...-...

Manufactured by BIEFFI

### (15) - PURPOSE OF THE ADDITION

- Increasing of maximum supply voltage,
- Incorporation of new powers for type ICON-010,
- Incorporation of new motors TM series.

### PARAMETERS RELATING TO THE SAFETY

The parameters relating to the safety stipulated by the basic certificate are modified as follows :

#### Electrical characteristics :

Supply voltage : from 230 to 690 V  
Frequency : 50/60 Hz  
Power of motors : from 0.03 kW to 13.963 kW

#### Operating rate of the motors :

Motor SM series : S2-15 minutes and S4-25% 60 starts/hour maximum  
Motor TM series : S2-30 minutes and S4-25% 600 starts/hour maximum

The maximum power of motors varies according to the type of the motor and the electric characteristics.

The various powers are specified in the descriptive documents.

#### Characteristics of thermal probe equipping the motor :

Threshold of release : 140 °C ± 5°C for actuator with motor SM serie.  
Threshold of release : 160 °C ± 5°C for actuator with motor TM serie.

### MARKING

The marking defined in the basic basic EC-type examination certificate is unchanged.

### ROUTINE EXAMINATIONS AND TESTS

The routine tests stipulated by the basic certificate and addition 01 are unchanged.

(16) - DESCRIPTIVE DOCUMENTS

The documents referred to below, constitute the file describing the modifications of the apparatus and forming the subject of the present addition.

- Descriptive note DT-1396-2 rev.0 of 2004.09.06
- Drawing n° 50080-1 rev.4 of 2004.03.30
- Drawing n° 50080-9 rev.3 of 2004.03.30

These documents were signed on 2004.09.08

(17) - SPECIAL CONDITIONS FOR SAFE USE


The special condition, relating to the range of ambient temperature, defined in the basic certificate is modified as follows :

The actuator fitted with motors TM series are intended to be used in an ambient temperatures range from -55°C to 65°C.

(18) ESSENTIAL REQUIREMENTS OF SAFETY AND HEALTH

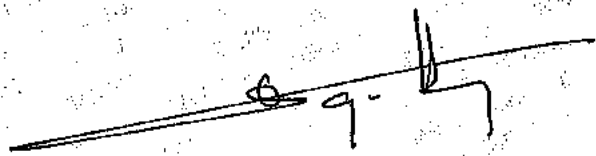
The respect of the Essential Health and Safety Requirements defined in the basic certificate is unchanged.

Verneuil-en-Halatte, 2004 11 10

  
C. PETITFRERE

Engineer at the Laboratory of Certification of  
ATEX Equipment

C. PETITFRERE



Director of the Certifying Body,  
By delegation  
B. PIQUETTE  
Deputy manager of Certification



## ADDITION

INERIS 00ATEX0043X/03

ACTUATOR SERIES ICON2000 TYPE ICON-.../...-...

Manufactured by BIFFI ITALIA srl

### (15) - PURPOSE OF THE ADDITION

- Modification of the operating rate for motors TM series for type ICON-010 to ICON-040;
- Modification of the supply voltage for motors SM and TM series,
- Incorporation of new continuous motors DM series for type ICON-010 and ICON-020.

For these different modifications the series becomes ICON2000AD.

### PARAMETERS RELATING TO THE SAFETY

The parameters relating to the safety stipulated by the basic certificate are modified as follows :

#### Electrical characteristics for three phases motors :

Supply voltage : from 230 to 690 V  
Frequency : 50/60 Hz  
Power of motors : from 0.03 kW to 1.348 kW  
Operating rate TM series : S4-50% 1200 starts/hour maximum

#### Electrical characteristics for single phases motors :

Supply voltage : from 110 to 240 V  
Frequency : 50/60 Hz  
Power of motors : from 0.106 kW to 1.764 kW  
Operating rate SM series : S2-15' or S4-25% 60 starts/hour maximum  
Operating rate TM series : S4-25% 1200 starts/hour maximum

#### Electrical characteristics for direct current phases motors :

Supply voltage : from 24 to 120 V  
Power of motors : 0.4 kW  
Operating rate DM series : S2-15' or S4-25% 600 starts/hour maximum

#### Characteristics of thermal probe equipping the motor :

Threshold of release : 140 °C ± 5°C for actuator with motor DM serie.

The maximum power of motors varies according to the type of the motor and the electric characteristics.

The various powers are specified in the descriptive documents.

**MARKING**

The marking defined in the basic EC-type examination certificate is unchanged.

**ROUTINE EXAMINATIONS AND TESTS**

The routine tests stipulated by the basic certificate and the complement 01 are unchanged.

**(16) - DESCRIPTIVE DOCUMENTS**

The documents referred to below, constitute the file describing the modifications of the apparatus and forming the subject of the present addition.

- Descriptive note DT-1396-3 rev.1 of 2004.10.27
- Drawing n° 50080-22 rev.1 of 2004.10.27
- Drawing n° 50080-23 rev.1 of 2004.10.27

These documents were signed on 2004.10.27

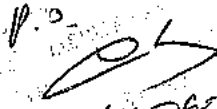
**(17) - SPECIAL CONDITIONS FOR SAFE USE**

The special condition, defined in the basic certificate and the complement 02 are unchanged.

**(18) ESSENTIAL REQUIREMENTS OF SAFETY AND HEALTH**

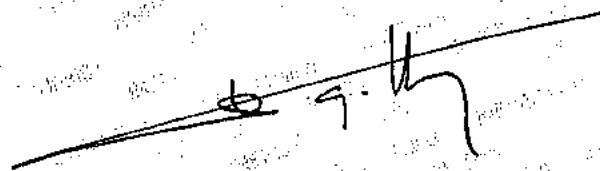
The respect of the Essential Health and Safety Requirements defined in the basic certificate is unchanged.

Verneuil-en-Halatte, 2004.11.10

  
X. LEFEBVRE

C. PETITFRERE

Engineer at the Laboratory of Certification of  
ATEX Equipment



Director of the Certifying Body,  
By delegation  
B. PIQUETTE

Deputy manager of Certification



## ADDITION

INERIS 00ATEX0043X/04

ACTUATOR SERIES ICON2000 TYPE ICON-.../..-...

Manufactured by BIFFI ITALIA srl

### (15) - PURPOSE OF THE ADDITION

- Replacement of existing battery by LS 14250 SAFT battery
- Change of infallible components fuse, resistance included in the battery compartment

### PARAMETERS RELATING TO THE SAFETY

The batteries to be use are SAFT LS14250 - 9V - 1,0 Ah

The other parameters relating to the safety stipulated by the addition 03 are unchanged.

### MARKING

On the compartment containing the intrinsic safety circuit, the marking becomes :

EEx ia IIC T4 up to Tamb 65°C - IP66

Or EEx ia IIC T3 up to Tamb 85°C - IP66

" DO NOT OPEN IN PRESENCE OF EXPLOSIVE GAS ATMOSPHERE "

### ROUTINE EXAMINATIONS AND TESTS

The routine tests stipulated by the basic certificate and the addition 01 are unchanged.

### (16) - DESCRIPTIVE DOCUMENTS

The documents referred to below, constitute the file describing the modifications of the apparatus and forming the subject of the present addition.

- Descriptive note DT-1396-4	rev.0	du 2005.10.10
- Drawing DE5713	rev.1	du 2005.08.26
- Drawing PC 5713-1	rev.1	du 2005.10.12
- Instruction Manual MAN 618	rev.7	du 2005.10.10
- Drawing n° 50080-9	rev.4	du 2005.10.10
- Drawing n° 50080-23	rev.2	du 2005.10.10
- Interface circuit DE5700	rev.1	du 2005.10.12
- Printed circuit PC 5700-1	rev.1	du 2005.10.12

- Printed circuit PC 5700-2 rev.1 du 2005.10.12
- Printed circuit PC 5700-3 rev.1 du 2005.10.12
- Printed circuit PC 5700-4 rev.1 du 2005.10.12

These documents are signed on 2005.10.12

(17) - SPECIAL CONDITIONS FOR SAFE USE

The special condition, defined in the basic certificate and the addition 02 are unchanged.

(18) ESSENTIAL REQUIREMENTS OF SAFETY AND HEALTH

The respect of the Essential Health and Safety Requirements defined in the basic certificate is unchanged.

Verneuil-en-Halatte, 2005 11 07



T. DELBAERE

Engineer at the Laboratory of Certification of  
ATEX Equipment



Director of the Certifying Body,  
By delegation  
B. PIQUETTE  
Deputy manager of Certification

## ADDITION

(3) INERIS 00ATEX0043X/05

(4) ACTUATOR SERIES ICON2000 TYPE ICON-.../...-...

(5) Made by BIFFI ITALIA srl

(15) PURPOSE OF THE ADDITION

- Application of standards :  
EN 60079-0 : 2006    EN 60079-1 : 2004    EN 60079-11 : 2007.  
EN 61241-0 : 2006    EN 61241-1 : 2004.
- Possibility to insert an extension on the control compartment.
- Modification of the ambient range temperature.

PARAMETERS RELATING TO THE SAFETY

The parameters relating to the safety are unchanged.

MARKING

The marking is modified as follows:

A) Actuator without intrinsic safety element :

BIFFI ITALIA s.r.l


I - 29017 Fiorenzuola d'Arda (PC)

ICON (\*)

INERIS 00ATEX0043X

(Serial number)

(Year of construction)

 II 2 GD

Ex d IIB T4

Ex tD A21 IP68 T135°C


T. cable : 90°C (\*\*)

**WARNINGS:**

DO NOT OPEN WHEN ENERGIZED

DO NOT OPEN ANY COVER IF AN EXPLOSIVE ATMOSPHERE MAY BE PRESENT

**B) Actuator with intrinsic safety element :**

BIFFI ITALIA s.r.l  
I - 29017 Fiorenzuola d'Arda (PC)  
ICON (\*)  
INERIS 00ATEX0043X  
(Serial number)  
(Year of construction)  
 II 2 GD  
Ex d ia IIB T4  
Ex tD A21 IP68 T135°C  
T. cable : 90°C (\*\*)

**WARNINGS :**

DO NOT OPEN WHEN ENERGIZED  
DO NOT OPEN ANY COVER IF AN EXPLOSIVE ATMOSPHERE MAY BE PRESENT

On the compartment containing the intrinsic safety circuit, the marking:

Ex ia IIC T4 up to Tamb 65°C  
Ex ia IIC T3 up to Tamb 85°C

(\*) Type is completed by numbers and/or letters corresponding to alternatives of execution.

(\*\*) Indication if ambient temperature is higher than 65°C.

Marking may be carried out in the language of the country of use.

The protective system or equipment has also to carry the marking normally stipulated by its construction standards.

**ROUTINE EXAMINATIONS AND TESTS**

In accordance with clause 16.1 of EN 60079-1 standard, each sample, fitted with the extension, defined above must have successfully passed before delivery, an overpressure test, of a period comprised between 10 and 60 seconds, under 14.9 bar.

In accordance with clause 16.2 of the EN 60079-1 standard, the equipment defined above, without extension, is exempted of routine test in owing to the fact that it has undergone a static type test at 4 times the reference pressure under 32 bar.

**(16) DESCRIPTIVE DOCUMENTS**

The descriptive documents quoted hereafter constitute the technical documentation describing the modification of the equipment, subject of this present addition.

- |                                |       |               |                      |
|--------------------------------|-------|---------------|----------------------|
| - Descriptive notice DT_1396_5 | rev.1 | of 2009.09.22 | signed on 2009.09.30 |
| - MAN_618_Addendum 1           | rev.1 | of 2009.09.28 | signed on 2009.09.30 |
| - Drawing n° 50080-29          | rev.1 | of 2009.09.09 | signed on 2009.09.30 |

(17) SPECIAL CONDITIONS FOR SAFE USE

The special conditions for safe use are modified as follow :

- The screws used for the assembly of the various parts of explosion-proof enclosures must be in stainless steel class A4 grade 70 with yield strength higher or equal to 450 N/mm<sup>2</sup>.
- The equipment is intended to be used in an operating temperature range from -20°C to 65°C or -20°C to 85°C in accordance with the type of motor used.
- The gap and diametrical clearances are less than the values specified in the table 1 of the standard EN 60079-1.

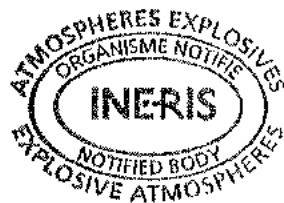
The other conditions are stipulated in the instructions.

(18) ESSENTIAL SAFETY AND HEALTH REQUIREMENTS

The respect of the Essential Health and Safety Requirements is completed as follows:

- Conformity to the standards quoted on page 1, clause (15).
- All provisions adopted by the manufacturer and defined in the descriptive documents.

Verneuil-en-Halatte, 2009 10 08



Director of the Certifying Body,  
By delegation  
T. HOUeix  
Certification Officer  
Certification Division

## ADDITION

(3) **INERIS 00ATEX0043X/06**

(4) **ACTUATOR SERIES ICON2000 MODEL ICON-.../...-...**

(5) **Made by BIFFI ITALIA srl**

(15) **PURPOSE OF THE ADDITION**

- Application of standards :

EN 60079-0 : 2009 IEC 60079-0 : 2007

EN 60079-1 : 2007 IEC 60079-1 : 2007

EN 60079-11 : 2007 IEC 60079-11 : 2011

EN 60079-31 : 2009 IEC 60079-31 : 2008

- Possibility to insert an extension on the terminal board compartment.

- Modification of the ambient range temperature.

**PARAMETERS RELATING TO THE SAFETY**

The parameters relating to the safety are unchanged.

**MARKING**

The marking is modified as follows:

A) **Actuator without intrinsic safety element :**

BIFFI ITALIA s.r.l


I - 29017 Florenzuola d'Arda (PC)

ICON (\*)

INERIS 00ATEX0043X

(Serial number)

(Year of construction)

 II 2 GD

Ex d IIB T4 Gb

Ex tb IIIC T135 °C Db IP66/68

T. cable: 90 °C (\*\*)

FOR CABLE ENTRIES DIMENSIONS SEE INSTRUCTIONS MANUAL

**WARNINGS:**

DO NOT OPEN WHEN ENERGIZED

DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE MAY BE PRESENT

**B) Actuator with intrinsic safety element :**

BIFFI ITALIA s.r.l


I - 29017 Fiorenzuola d'Arda (PC)

ICON (\*)

INERIS 00ATEX0043X

(Serial number)

(Year of construction)

 II 2 GD

Ex d ia IIB T4 Gb

Ex tb IIIC T135°C Db IP66/68

T. cable: 90°C (\*\*)

FOR CABLE ENTRIES DIMENSIONS SEE INSTRUCTIONS MANUAL

**WARNINGS:**

DO NOT OPEN WHEN ENERGIZED

DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE MAY BE PRESENT

On the compartment containing the intrinsic safety circuit, the marking:

Ex ia IIC T4 up to Tamb 65°C

Ex ia IIC T3 up to Tamb 85°C

(\*) Model is completed by numbers and/or letters corresponding to alternatives of execution.

(\*\*) Indication if ambient temperature is higher than 65°C.

Marking may be carried out in the language of the country of use.

The protective system or equipment has also to carry the marking normally stipulated by its construction standards.

**ROUTINE EXAMINATIONS AND TESTS**

**All model of actuators with extension for using limited down to -20°C:**

In accordance with clause 16.1 of EN 60079-1 standard, each sample, fitted with the extension, defined above must have successfully passed before delivery, an overpressure test, of a period comprised between 10 and 60 seconds, under 14.9 bar.

**All model sizes of actuators without extension for using limited down to -20°C:**

In accordance with clause 16.2 of the EN 60079-1 standard, each sample, without extension, is exempted of routine test due to the fact that it has undergone a static type test at 4 times the reference pressure under 32 bar.

**Actuators model ICON-010 and ICON-020 without extension for using down to -60°C:**

In accordance with clause 16.1 of EN 60079-1 standard, each sample, fitted with the extension, defined above must have successfully passed before delivery, an overpressure test, of a period comprised between 10 and 60 seconds, under 17.9 bar.

**(16) DESCRIPTIVE DOCUMENTS**

The descriptive documents quoted hereafter constitute the technical documentation describing the modification of the equipment, subject of this present addition.

- |   |        |               |                      |
|---|--------|---------------|----------------------|
| - Descriptive notice DT_1396_6            | rev.0  | of 2011.12.06 | signed on 2012.04.26 |
| - Instruction Handbook MAN_618            | rev.10 | of 2011.01.15 | signed on 2012.04.26 |
| - Instruction Handbook MAN_618_Addendum 1 | rev.2  | of 2011.06.22 | signed on 2012.04.26 |
| - Drawing n°50080-1                       | rev.5  | of 2011.11.09 | signed on 2012.04.26 |
| - Drawing n°50080-9                       | rev.5  | of 2011.11.09 | signed on 2012.04.26 |
| - Drawing n°50080-22                      | rev.2  | of 2011.10.12 | signed on 2012.04.26 |
| - Drawing n°50080-23                      | rev.3  | of 2011.10.12 | signed on 2012.04.26 |
| - Drawing n°50080-29                      | rev.2  | of 2011.10.12 | signed on 2012.04.26 |
| - Drawing n°50080-30                      | rev.0  | of 2011.06.15 | signed on 2012.04.26 |

**(17) SPECIAL CONDITIONS FOR SAFE USE**

The special conditions for safe use are modified as follows:

- The screws used for the assembly of the various parts of explosion-proof enclosures must be in stainless steel class A4 grade 70 with yield strength higher or equal to 450 N/mm<sup>2</sup>.
- These actuators are intended to be used in ambient temperature 65°C or 85°C in accordance with the type of motor used.
- The actuators fitted with extension can be used in ambient temperature down to -20°C.
- The actuators model ICON-010 and ICON-020 can be used in ambient temperature down to -60°C.
- The actuators model ICON-030, ICON-040 and ICON-050 can be used in ambient temperature down to -20°C.
- The gap and diametrical clearances are less than the values specified in the tables of the standard EN 60079-1.
- The width of the different flameproof joint is superior to the values specified in the tables of the standard EN 60079-1.

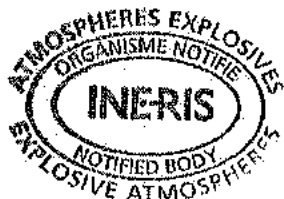
The other conditions are stipulated in the instructions.

**(18) ESSENTIAL SAFETY AND HEALTH REQUIREMENTS**

The respect of the Essential Health and Safety Requirements is completed as follows:

- Conformity to the standards quoted on page 1, clause (15).
- All provisions adopted by the manufacturer and defined in the descriptive documents.

Verneuil-en-Halatte, 2012.05.23



*T. Houeix*  
Director of the Certifying Body,  
By delegation  
T. HOUEIX  
Certification Officer  
Certification Division

## ADDITION

(3) INERIS 00ATEX0043X/07

(4) ACTUATOR SERIES ICON2000 MODEL ICON-.../.../...

(5) Made by BIFFI ITALIA srl

(15) PURPOSE OF THE ADDITION

Possibility to used actuators ICON-030, ICON-040 and ICON-050 at ambient temperature of -55°C.

PARAMETERS RELATING TO THE SAFETY

The parameters relating to the safety are unchanged.

MARKING

The marking is unchanged.

ROUTINE EXAMINATIONS AND TESTS

The routine examinations and tests are completed as follows:

Actuators without extension type ICON-030, ICON-040 and ICON-050 for using down to -55°C:

In accordance with clause 16.1 of EN 60079-1 standard, each sample, fitted with the extension, defined above must have successfully passed before delivery, an overpressure test, of a period comprised between 10 and 60 seconds, under 20.7 bar.

(16) DESCRIPTIVE DOCUMENTS

The descriptive documents quoted hereafter constitute the technical documentation describing the modification of the equipment, subject of this present addition.

- |                                  |            |                |
|----------------------------------|------------|----------------|
| - Technical note n°DT_1396       | rev.2      | of 2013.03.04. |
| - Instruction Handbook n°MAN_618 | Addendum B | of 2013.03.04. |
| - DT-2001                        | Rev.0      | of 2012.10.12. |

All documents were signed on 2013.04.05

(17) SPECIAL CONDITIONS FOR SAFE USE

The special conditions for safe use are modified as follows:

The actuators model ICON-030, ICON-040 and ICON-050 can be used in ambient temperature down to -55°C.

The other conditions are unchanged.

(18) ESSENTIAL SAFETY AND HEALTH REQUIREMENTS

The respect of the Essential Health and Safety Requirements is unchanged.

Verneuil-en-Halatte, 2013.04.22



A handwritten signature in black ink, appearing to read "T. Houeix".

The Chief Executive Officer of INERIS  
By delegation  
T. HOUeix  
Ex Certification Officer



- 2 Appareil ou système de protection destiné à être utilisé en atmosphères explosibles  
*Equipment and protective systems intended for use in potentially explosive atmospheres*

**Directive 2014/34/UE**  
**Directive 2014/34/EU**

1 **ATTESTATION D'EXAMEN UE DE TYPE**  
**EU-TYPE EXAMINATION CERTIFICATE**

- 3 Numéro de l'attestation d'examen UE de type / *Number of the EU-Type Examination Certificate*

**INERIS 00ATEX0043X**

INDICE / *ISSUE* : 08

- 4 Appareil ou système de protection / *Equipment or protective system:*

**ACTIONNEUR ELECTRIQUE TYPE ICON2000\*\***  
**ELECTRICAL ACTUATOR TYPE ICON2000\*\***

- 5 Fabricant / *Manufacturer:*

**BIFFI ITALIA s.r.l**

- 6 Adresse / *Address :*

Loc. Caselle S.Pietro  
I-29017 Fiorenzuola d'Arda (PC)

- 7 Cet appareil ou système de protection et toute autre variante acceptable de celui-ci sont décrits dans l'annexe de la présente attestation et dans les documents descriptifs cités dans cette annexe.

*This equipment or protective system and any acceptable variation thereto is specified in the Annex of this certificate and the descriptive documents therein referred to.*

- 8 L'INERIS, organisme notifié et identifié sous le numéro 0080, conformément aux articles 17 and 21 de la directive 2014/34/UE du Parlement Européen et du Conseil, datée du 26 février 2014, et accrédité par le COFRAC sous le n° 5-0045 dans le cadre de l'activité de certification de produits et services (portée disponible sur [www.cofrac.fr](http://www.cofrac.fr)) certifie que cet appareil ou système de protection répond aux Exigences Essentielles de Sécurité et de Santé en ce qui concerne la conception et la construction des appareils et des systèmes de protection destinés à être utilisés en atmosphères explosibles, décrites en annexe II de la Directive.

*INERIS, notified body and identified under number 0080, in accordance with Articles 17 and 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, and accredited by COFRAC under number 5-0045 for certification of products and services (scope of accreditation available on the website [www.cofrac.fr](http://www.cofrac.fr)), certifies that this equipment or protective system fulfils 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.*

Les procédures de certification sont disponibles sur [www.ineris.fr](http://www.ineris.fr).

*The rules of certification are available on INERIS website on: [www.ineris.fr](http://www.ineris.fr).*

Les examens et les essais sont consignés dans le rapport:

*The examinations and the tests are recorded in report:*

N° 029217.

9 Le respect des Exigences Essentielles de Sécurité et de Santé est assuré par :

*The respect of the Essential Health and Safety Requirements has been assured by:*

- la conformité à / *Conformity with:*

EN 60079-0 :	2012/A11 :	2013
EN 60079-1 :	2007	
EN 60079-11:	2012	
EN 60079-31:	2014	
EN 13463-1 :	2009	
EN 13463-5 :	2011	

- les solutions spécifiques adoptées par le fabricant pour satisfaire aux Exigences Essentielles de Sécurité et de Santé décrites dans les documents descriptifs /

*Specific solutions adopted by the manufacturer to meet the Essential Health and Safety Requirements described in the descriptive documents*

10 Si le signe X est placé à la suite du numéro de l'attestation d'examen UE de type, il indique que cet appareil ou système de protection est soumis à des conditions spéciales d'utilisation, mentionnées dans l'annexe de la présente attestation.

*If the sign X is placed after the Number of the EU type examination certificate, it indicates that this equipment and protective system is subject to the Specific Conditions of Use, mentioned in the annex of this certificate.*

11 Cette attestation d'examen UE de type se rapporte uniquement à la conception, aux examens et essais de l'appareil ou système de protection spécifié conformément à la directive 2014/34/UE. D'autres exigences de cette Directive s'appliquent à la fabrication et à la fourniture de cet appareil ou système de protection, celles-ci ne sont pas couvertes par cette attestation.

*This EU-Type Examination Certificate relates only to the design, examinations and tests of the specified equipment or protective system in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.*

12 Le marquage de l'appareil ou du système de protection doit contenir :

*The marking of the equipment or the protective system shall include the following:*

 II 2 G D

Verneuil-en-Halatte, 2016.07.05



Thierry HOUËIX  
Délégué Certification ATEX  
Ex Certification Officer

Le Directeur Général de l'INERIS  
Par délégation  
The Chief Executive Officer of INERIS  
By delegation

13 ANNEXE15 DESCRIPTION DE L'APPAREIL OU DU SYSTÈME DE PROTECTION :

L'enveloppe réalisée en alliage léger est destinée à recevoir principalement un moteur électrique et une partie électronique. Une version est prévue avec un compartiment renfermant un circuit sécurité intrinsèque équipé d'une pile.

L'équipement est seulement "d" lorsqu'il est sous-tension et "d ia" lorsqu'il est hors-tension.

Le moteur est équipé d'une sonde thermique interne placée dans le bobinage.

L'enveloppe présente les degrés de protection IP68 selon la norme européenne EN 60529.

La vérification du niveau de protection IPX8 correspond à une immersion sous 10 m d'eau pendant 48 heures.

PARAMETRES RELATIFS A LA SECURITÉ :Tension d'alimentation:

- 173 à 690 V pour la série de moteurs tri-phases SM et de la série TM
- 110 à 240 V pour les séries de moteurs à phases simples SM et de la série TM
- 24 à 120 V pour la série DM en courant continu
- 24 V pour la série LP en courant continu

Fréquence: 50/60 Hz

Puissance des moteurs: de 0,03 kW à 13,963 kW

La puissance maximale des moteurs varie en fonction du type du moteur et des caractéristiques électriques. Les différentes puissances sont spécifiées dans les documents descriptifs.

Service de fonctionnement des moteurs tri-phases ou à phases simple:

Moteur série SM: S2-15 minutes et S4-25% 60 démarrages/heure maximum

Moteur série TM:

- S2-30 minutes et S4-25% 600 démarrages/heure maximum pour la version ICON2000
- S4-50% 1200 démarrages/heure maximum pour la version ICON200AD 3/ph
- S4-25% 1200 démarrages/heure maximum pour la version 1/ph ICON2000AD

Service de fonctionnement des moteurs en courant continu:

Tension d'alimentation : 24 à 120 V

Puissance des moteurs : 0,4 kW

Service de fonctionnement série DM : S2-15'ou S4-25% 600 démarrages/heure maximum

Service de fonctionnement série LP: S4-50% 1200 démarrages/heure maximum

13 ANNEX15 DESCRIPTION OF THE EQUIPMENT OR THE PROTECTIVE SYSTEM :

The enclosure made in light alloy, is destined to receive mainly an electric motor and an electronic part. A version is envisaged with a compartment containing an intrinsic safety element equipped with a battery.

The equipment is only "d" when energized and "d ia" when de-energized.

The motor is fitted with an internal thermal probe put in the winding.

The enclosure presents the degrees of protection IP66/68 according EN 60529 standard.

The verification of the degree of protection IPX8 corresponds to an immersion under 10 meters of water during 48 hours.

PARAMETERS RELATING TO THE SAFETY :Supply voltage :

- from 173 to 690 V for three phases motors series SM and series TM
- from 110 to 240 V for single phases motors series SM and series TM
- from 24 to 120 V for direct current series DM
- 24 V for direct current series LP

Frequency: 50/60 Hz

Power of motors: from 0.03 kW to 13.963 kW

The maximum power of motors varies according to the type of the motor and the electric characteristics. The various powers are specified in the descriptive documents.

Operating rate of the motors for single or three phases :

Motor SM series: S2-15 minutes and S4-25% 60 starts/hour maximum

Motor TM series:

- S2-30 minutes and S4-25% 600 starts/hour maximum for ICON2000 version
- S4-50% 1200 starts/hour maximum for ICON200AD 3/ph version
- S4-25% 1200 starts/hour maximum for ICON2000AD 1/ph version

Operating rate of the motors for direct current :

Supply voltage: from 24 to 120 V

Power of motors: 0,4 kW

Operating rate DM series: S2-15' or S4-25% 600 starts/hour maximum

Operating rate LP series: S4-50% 1200 starts/hour maximum

Caractéristiques de sonde thermique équipant le moteur:

Seuil de déclenchement: 140°C+/-5°C pour l'actionneur avec un moteur de la série SM ou DM ou LP.

Seuil de déclenchement: 160°C+/-5°C pour l'actionneur avec un moteur de la série TM.

Caractéristiques électriques de la pile située dans le compartiment Ex d:

Fabricant : SAFT  
Type : LS 14500  
Tension d'alimentation : 3,6 V  
Capacité nominale : 2,6 Ah

Caractéristiques électriques de la pile située dans le compartiment Ex ia:

Fabricant: SAFT  
Type: Batterie LS 9 V  
Tension d'alimentation: 9 V  
Capacité nominale: 1,2 Ah

Cet actionneur peut être utilisé dans la gamme suivante de la température ambiante:Moteur série TM :

- Pour les actionneurs ICON 010 et 020 sans extension: de -60°C à +65°C
- Pour les actionneurs ICON 030, 040 et 050 sans extension: de -55°C à +65°C
- Pour tous les types d'actionneur avec extension: de -20°C à +65°C

Moteur série DM, SM et LP :

- Pour les actionneurs ICON 010 et 020 sans extension: de -60°C à +65°C ou +85°C
- Pour les actionneurs ICON 030, 040 et 050 sans extension: de -55°C à +65°C ou +85°C
- Pour tous les types d'actionneur avec extension: de -20°C à +65°C ou +85°C

MARQUAGE :

Le marquage doit être lisible et indélébile ; il doit comporter les indications suivantes :

BIFFI ITALIA s.r.l  
I-29017 Fiorenzuola d'Arda (PC)  
ICON2000\*\*(\*)  
INERIS 00ATEX0043X  
(Numéro de série)  
(Année de construction)



II 2 G D

c Ex d ou d ia IIB T4 Gb

c Ex tb IIIC T135°C Db IP66/68

T. Câble : 90°C(\*\*)

Entrée de câble : voir instructions

**AVERTISSEMENTS :**

NE PAS OUVRIR SOUS TENSION

NE PAS OUVRIR SI UNE ATMOSPHERE EXPLOSIBLE PEUT ETRE PRESENTE

Characteristics of thermal probe equipping the motor :

Threshold of release: 140°C+/-5°C for actuator with motor SM or DM or LP series.

Threshold of release: 160°C+/-5°C for actuator with motor TM series.

Electrical characteristics of the cell located in the Ex d compartment:

Manufacturer: SAFT  
Type: LS 14500  
Supply voltage: 3.6 V  
Nominal capacity: 2.6 Ah

Electrical characteristics of the cell located in the Ex ia compartment:

Manufacturer: SAFT  
Type: battery pack LS 9 V  
Supply voltage: 9 V  
Nominal capacity: 1.2 Ah

This actuator can be used in the following range of ambient temperatures:Motor TM series:

- For actuator ICON 010 and 020 without extension : from -60°C to +65°C
- For actuator ICON 030, 040 and 050 without extension : from -55°C to +65°C
- For all types of actuator with extension: from -20°C to +65°C

Motor DM, SM and LP series:

- For actuator ICON 010 and 020 without extension : from -60°C to +65°C or +85°C
- For actuator ICON 030, 040 and 050 without extension : from -55°C to +65°C or +85°C
- For all types of actuator with extension: from -20°C to +65°C or +85°C

MARKING :

Marking has to be readable and indelible; it has to include the following indications:

BIFFI ITALIA s.r.l  
I-29017 Fiorenzuola d'Arda (PC)  
ICON2000\*\*  
INERIS 00ATEX0043X  
(Serial Number)  
(Year of Construction)



II 2 G D

c Ex d or d ia IIB T4 Gb

c Ex tb IIIC T135°C Db IP66/68

T. Cable : 90°C(\*\*)

Cable entry: see instructions

**WARNINGS :**

DO NOT OPEN WHEN ENERGIZED

DO NOT OPEN IF AN EXPLOSIVE ATMOSPHERE CAN BE PRESENT

- (\*) Le type est complété par des chiffres et/ou des lettres correspondant aux variantes d'exécution
- (\*\*) Indication si la température ambiante est supérieure à 65 ° C.

L'ensemble du marquage peut être réalisé dans la langue du pays d'utilisation.

L'appareil ou le système de protection doit aussi porter le marquage normalement prévu par les normes de construction qui le concernent.

#### **EXAMENS ET ESSAIS INDIVIDUELS :**

Chaque exemplaire du matériel ci-dessus défini doit avoir subi avec succès, avant livraison :

Tout type d'actionneurs avec rehausse pour une utilisation limitée à -20°C :

Conformément au § 16.1 de la norme EN/IEC 60079-1, chaque exemplaire équipé de l'extension, ci-dessus défini doit avoir subi avec succès, avant livraison une épreuve de surpression statique d'une durée comprise entre 10 et 60 secondes sous 14,9 bar.

Tout type d'actionneurs sans rehausse pour une utilisation limitée à -20°C :

Conformément au § 16.2 de la norme EN/IEC 60079-1, chaque exemplaire équipé de l'extension, ci-dessus défini, est dispensé de l'épreuve individuelle compte tenu du fait qu'il a subi un essai de type sous 4 fois la pression de référence sous 32 bar.

Pour les actionneurs type ICON-010 et ICON-020 sans rehausse pour une utilisation jusqu'à -60°C :

Conformément au § 16.1 de la norme EN/IEC 60079-1, chaque exemplaire équipé de l'extension, ci-dessus défini doit avoir subi avec succès, avant livraison une épreuve de surpression statique d'une durée comprise entre 10 et 60 secondes sous 17.9 bar.

Les actionneurs sans rehausse type ICON-030, ICON-040 et ICON-050 pour une utilisation à -55°C :

Conformément au § 16.1 de la norme EN/CEI 60079-1, chaque exemplaire équipé de l'extension, ci-dessus défini doit avoir subi avec succès, avant livraison une épreuve de surpression statique d'une durée comprise entre 10 et 60 secondes sous 20,7 bar.

#### **16 DOCUMENTS DESCRIPTIFS :**

Les documents descriptifs cités ci-après, constituent la documentation technique de l'appareil, objet de la présente attestation.

(\*) *Type is completed by numbers and/or letters corresponding to alternatives of execution*

(\*\*) *Indication if ambient temperature is higher than 65°C.*

*Marking may be carried out in the language of the country of use.*

*The protective system or equipment has also to carry the marking normally stipulated by its construction standards.*

#### **ROUTINE EXAMINATIONS AND TESTS :**

*Each pieces of equipment defined above has to have successfully passed; before delivery:*

*All model of actuators with extension for using limited down to -20°C:*

*In accordance with clause 16.1 of EN 60079-1 standard, each sample, fitted with the extension, defined above must have successfully passed before delivery, an overpressure test, of a period comprised between 10 and 60 seconds, under 14.9 bar.*

*All model sizes of actuators without extension for using limited down to -20°C:*

*In accordance with clause 16.2 of the EN 60079-1 standard, each sample, without extension, is exempted of routine test due to the fact that it has undergone a static type test at 4 times the reference pressure under 32 bar.*

*Actuators model ICON-010 and ICON-020 without extension for using down to -60°C:*

*In accordance with clause 16.1 of EN 60079-1 standard, each sample, fitted with the extension, defined above must have successfully passed before delivery, an overpressure test, of a period comprised between 10 and 60 seconds, under 17.9 bar.*

*Actuators model ICON-030, ICON-040 and ICON-050 without extension for using down to -55°C:*

*In accordance with clause 16.1 of EN 60079-1 standard, each sample, fitted with the extension, defined above must have successfully passed before delivery, an overpressure test, of a period comprised between 10 and 60 seconds, under 20.7 bar.*

#### **16 DESCRIPTIVE DOCUMENTS :**

*The descriptive documents quoted hereafter constitute the technical documentation of the equipment, subject of this certificate.*

Titre / Title	Réf. / Ref.	Rév. / Rev.	Date / Date
Technical Note	DT1396	4	2016.03.18
Safety instructions	MAN618 addB	1	2016.03.17
Risk Analysis	DT_2001	0	2012.10.12

Titre / Title	Réf. / Ref.	Rév. / Rev.	Date / Date
Instruction Handbook	MAN645	4	2016.03.17
Drawing	50080-36	0	2011.06.15
Drawing	50080-46	0	2016.03.17
Drawing	50080-10	4	2014.04.14
Drawing	50080-1	5	2011.11.09
Drawing	50080-23	4	2012.09.27
Drawing	50080-30	2	2016.04.26
Drawing	50080-29	3	2012.09.27
Drawing	50080-9	5	2011.11.09
Drawing	50080-22	3	2012.09.27
Drawing	50080-20	2	2016.02.19
Drawing	50080-45	0	2016.03.17
IS Technical Note	DTDE360	2	2015.12.02
Marking Plate	3800000231	11	2015.01.26

**17 CONDITIONS SPÉCIALES D'UTILISATION :**

- Les interstices et jeux diamétraux sont inférieurs aux valeurs spécifiés dans les tableaux de la norme EN 60079-1.
- La longueur des différents joints antidéflagrants est supérieure aux valeurs spécifiées dans les tableaux de la norme EN 60079-1.
- La visserie utilisée pour l'assemblage des différentes parties d'enveloppes antidéflagrantes doit être en acier inoxydable classe A4 grade 70 avec une résistance à la traction supérieure ou égale à 450 N/mm<sup>2</sup>.
- Ces matériels sont prévus pour une gamme de température d'utilisation de +65°C ou +85°C selon le type de moteur utilisé.
- Les actionneurs équipés d'une rehausse peuvent être utilisés à une température ambiante jusqu'à -20°C.
- Les actionneurs type ICON-010 et ICON-020 peuvent être utilisés à une température ambiante jusqu'à -60°C.
- Les actionneurs type ICON-030, ICON-040 et 050 peuvent être utilisés à une température ambiante jusqu'à -55°C.

Les autres conditions d'utilisation sont définies dans la notice d'instructions.

**17 SPECIFIC CONDITIONS OF USE :**

- *The gap and diametrical clearances are lower than the values specified in the tables of EN 60079-1 standard.*
- *The width of the flameproof joints is greater of the values specified in the EN 60079-1 standard.*
- *for the assembly of the various parts of explosion-proof enclosures must be in stainless steel class A4 grade 70 with yield strength higher or equal to 450 N/mm<sup>2</sup>.*
- *These actuators are intended to be used in ambient temperature +65°C or +85°C in accordance with the type of motor used.*
- *The actuators fitted with extension can be used in ambient temperature down to -20°C.*
- *The actuators model ICON-010 and ICON-020 can be used in ambient temperature down to -60°C.*
- *The actuators model ICON-030, ICON-040 and ICON-050 can be used in ambient temperature down to -55°C.*

*The other conditions of use are stipulated in the instructions.*

**18 EXIGENCES ESSENTIELLES DE SECURITE ET DE SANTE :**

Le respect des Exigences Essentielles de Sécurité et de Santé est assuré par :

- La conformité aux normes listées au paragraphe (9).
- L'ensemble des dispositions adoptées par le constructeur et décrites dans les documents descriptifs.

**19 REMARQUES :**

Les indices 00 à 07 font référence à l'attestation d'examen CE de type n° INERIS 00ATEX0043X et ses compléments émis précédemment conformément à la directive 94/9/CE.

Les modifications de l'indice 08 concernent :

- Ajout de 2 nouvelles versions de l'actionneur électrique, ICON2000EC et ICON2000LP
- Ajout de la 5ème entrée de câble sur le corps
- Mise à jour des cartes électroniques (non partie SI)
- Mise à jour de la documentation technique
- Ajout des normes EN 13463-1:2009 et EN 13463-5:2011

**18 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS :**

*The respect of the Essential Health and Safety Requirements is ensured by:*

- *Conformity to the standards quoted in clause (9).*
- *All provisions adopted by the manufacturer and defined in the descriptive documents.*

**19 REMARKS :**

*The issues 00 à 07 refer to the EC-type examination certificate N° INERIS 00ATEX0043X and its additions issued previously according to the Directive 94/9/EC.*

*The changes of the issue 08 are regarding:*

- *Addition of 2 new versions of the electric actuator, ICON2000EC and ICON2000LP*
- *Addition of 5th cable entry on the body*
- *Update of the electronic boards (not IS part)*
- *Update of the technical documentation*
- *Addition of EN 13463-1:2009 and EN 13463-5:2011 standards*