

[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:

CESI 01 ATEX 034 U

[4]

Component: Enclosures series CCA... and GUB... for electrical equipment

[5]

Manufacturer: **COR.TEM S. p. A.**

[6]

Address: Via Aquileia 6 Villesse (Gorizia - Italy)

[7]

This component and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8]

CESI, notified body n. 0722 in accordance with Article 9 of the Council Directive 94/9/EC 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 n. EX-A1/015441.

[9]

Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 50014: 1997 + A1...A2 EN 50018: 2000 EN 50281-1-1:1999

[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 2 GD EEx d IIC IP 66**

This certificate may only be reproduced in its entirety and without any change, schedule included.

date

17th May, 2001 - translation issued on 17th May, 2001

prepared

CERT - M. Balaz

approved

CERT - U. Colombo

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[13]

Schedule

[14] **EC-TYPE EXAMINATION CERTIFICATE n. CESI 01 ATEX 034 U**

[15] **Description of component**

Enclosures series CCA... and GUB... for electrical equipment.

The enclosures of these units are made in aluminium or in stainless steel (see technical note A4-4113 annexed to this certificate).

The CCA... and GUB... series are identical in every detail. The code CCA or GUB refers only to the firm which puts the product into the market.

The various items of the code show the size of the enclosure (volume from 0.5 to 31 dm³), different constructional versions, the type of material used, the presence of glass windows.

The complete codes of all the units subject of this certificate, together with their dimensional characteristics, are reported in the drawings A1-4107, A1-4108, A1-4109, A1-4110, A1-4111, A1-4112, A1-4118 annexed to this certificate.

Other characteristics of the enclosures are reported in the drawings annexed to the certificate, in particular:

- dimensions and characteristics of the glass windows: see drawings A1-4109, A1-4111, A1-4112
- number and dimensions of the holes admissible on the enclosures: see drawings A1-4108 and A1-4111.

On the enclosures series CCA and GUB the command and signalling operators type M-0... mentioned in the certificate of component CESI 01 ATEX 025 U can be installed.

The accessories used for cable entry and for closing unused apertures shall be certified according to EN 50014 and EN 50018 standards.

The service temperature of the glass windows and of the command and signalling operators type M-0... shall not exceed 100 °C.

Warning label

"Use screws of quality A2-70 according to UNI 7323 with ultimate tensile strength of at least 700 N/mm²"

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[13]

Schedule

[14] EC-TYPE EXAMINATION CERTIFICATE n. CESI 01 ATEX 034 U

[16] Report n. EX-A1/015441

Routine tests

The manufacturer shall carry out the routine tests prescribed at clause 24 of the EN 50014 standard.
The routine overpressure test shall be carried out with the static method (clause 15.1.3.1 of EN 50018 standard) at the pressure of 13.5 bar.

Descriptive documents (prot. EX-A1/015444)

- n° A4-4113 Rev. 0 (2 p.)	dated	18.07.2000
- n° A1-4107 Rev. 1	dated	18.07.2000
- n° A1-4108 Rev. 1	dated	18.07.2000
- n° A1-4109 Rev. 1	dated	18.07.2000
- n° A1-4110 Rev. 1	dated	18.07.2000
- n° A1-4111 Rev. 1	dated	18.07.2000
- n° A1-4112 Rev. 1	dated	18.07.2000
- n° A1-4118 Rev. 1	dated	15.09.2000
- n° A4-4129 Rev. 0	dated	26.06.2000
- n° A3-4216 Rev. 0	dated	15.09.2000
- Safety instructions mod. F-254 Rev. 0 (5 p.)	dated	26.07.2000
- Attestation of conformity for components n° 0020	dated	26.07.2000

One copy of all documents is kept in CESI files.

[17] Schedule of limitations

None.

[18] Essential Health and Safety Requirements

Covered by standards.

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EXTENSION n. 01/01



to EC-Type Examination Certificate CESI 01 ATEX 034 U

Equipment: Enclosures series CCA... and GUB... for electrical equipment

Manufacturer: COR.TEM S.p.A.

Address: Via Aquileia 6, Villesse, Gorizia (Italy)

Admitted variation

- new series CCAI...

Report n. EX-A1/033269

Descriptive documents (prot. EX-A1/033268)

- n. A4-4222 Rev. 0 dated 21.06.2001
- n. A1-4218 Rev. 0 dated 21.06.2001

One copy of all documents is kept in CESI files.

This extension and annexed descriptive documents must be annexed to the EC-Type Examination Certificate CESI 01 ATEX 034 U.

This document may only be reproduced in its entirety and without any change.

date 9th November 2001 - translation issued on 9th November 2001

prepared CERT - M. Balaz

approved CERT - U. Colombo

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Prot. A1/033255 P: 1
Keywords 13010R 24080T 48010M 54250O 66540E

EXTENSION n. 02/02



to EC-Type Examination Certificate CESI 01 ATEX 034 U

Equipment: Enclosures series CCA... and GUB... for electrical equipment

Manufacturer: COR.TEM S.p.A.

Address: Via Aquileia 10, Villesse, Gorizia (Italy)

Admitted variation

- new model CCA-01PF

Report n. EX-A2/012727

Descriptive documents (prot. EX-A23012725)

- n. A3-4045 Rev. 2 (3 p.) dated 23.02.2001

One copy of all documents is kept in CESI files.

This extension and annexed descriptive documents must be annexed to the EC-Type Examination Certificate CESI 01 ATEX 034 U.

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date 29th April 2002 - translation issued on 29th April 2002

prepared CERT - M. Balaz

approved CERT - U. Colombo

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Prot. A2/012729

P: 1

Keywords

13010R 24080T 48010M 54250O 66540E

EXTENSION n. 03/02



to EC-Type Examination Certificate CESI 01 ATEX 034 U

Equipment: Enclosures series CCA... and GUB... for electrical equipment

Manufacturer: COR.TEM S.p.A.

Address: Via Aquileia 10, Villesse, Gorizia (Italy)

Admitted variation

- new model CCA-03 with threaded cover Φ 245 ISO pitch 3

Report n. EX-A2/020631

Descriptive documents (prot. EX-A2/020633)

- n. A3-4286 Rev. 0 dated 03.06.2002

One copy of all documents is kept in CESI files.

This extension and annexed descriptive documents must be annexed to the EC-Type Examination Certificate CESI 01 ATEX 034 U.

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date 26th June 2002 - translation issued on 26th June 2002

prepared CERT - M. Balaz

approved CERT - U. Colombo

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Prot. A2/020639

P: 1

Keywords

13010R 24080T 48010M 54250O 66540E

EXTENSION n. 04/07



to EC-Type Examination Certificate CESI 01ATEX034U

Component: Enclosures series CCA... e GUB...for control and signalling equipment
Manufacturer: **COR.TEM S.p.A.**
Address: Via Aquileia 10, Villesse (Gorizia - Italia)

Admitted variation

- Conformity to EN 60079-0 (2006), EN60079-1 (2004), EN 61241-0 (2006), EN 61241-1 (2004) Standards
- Update of nameplate
- Execution I M2 Ex d I (stainless steel only)
- Add new boxes with glass windows series GUB-04V and CCA-04EH
- Modification of the ambient temperature range and the service temperature range.

Identification of the component

The enclosures series GUB...; CCA...E; CCA...C e CCAI...

The various items of the code show the size of the enclosure (volumes from 0.5 to 31 dm³), different constructional versions, the type of material used, the presence of glass windows.

The marking of the equipment shall include the following:



II 2GD Ex d IIC; Ex tD A21 IP66



I M2 Ex d I

This extension and annexed descriptive documents must be annexed to the EC-Type Examination Certificate CESI 01ATEX034U.

This document may only be reproduced in its entirety and without any change.

date 19/12/2007 - translation issued the 19/12/2007

prepared Pierluigi Molinari

verified Mirko Balaz

approved Fiorenzo Bregani

CESI S.p.A.
Divisione Energia
"Area Tecnica Certificazione"
Il Responsabile

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EXTENSION n. 04/07

to EC-Type Examination Certificate CESI 01ATEX034U

Identification of the component (follows)

Cable entries

The accessories used for cable entries and for unused holes shall be subject of separate certification:

- for the unit of category II 2GD in the execution Ex d IIC and Ex tD A21 shall be certified according to the standards: EN 60079-0 (2006); EN 60079-1 (2004); EN 61241-0 (2006); EN 61241-1 (2004) and shall guarantee a degree of protection IP 66 according to EN 60529 (1991) Standard.
- for the unit of category I M2 in the execution Ex d I shall be certified according to the Standards: EN 60079-0 (2006); EN 60079-1 (2004).

Warning label

“Use screws of quality A2-70 according UNI 7323 with ultimate tensile strength of at least 700 N/mm²”.

Report n. EX-A7/035508

Routine tests

The manufacturer shall carry out the routine tests prescribed at par. 27 of the EN 60079-0 (2006) and at par. 24 of the EN 61241-0 (2006) Standards.

The overpressure routine test shall be carried out with static method, at the pressure of 13,5 bar in conformity to the par. 15.1.3.1 of the EN 60079-1 Standard.

Descriptive documents (prot. EX-A7/035511)

- Technical Note A4-4975 Rev. 0 (3 pg.)	dated	22.03.2007
- Dwg. n. A1-4469 Rev. 0	dated	22.03.2007
- Data sheet gaskets Blue Tech	dated	22.03.2007
- Dwg. n. A2-4137 Rev. 2	dated	21.03.2007
- Document A4-4951 Rev. 0	dated	02.04.2007
- Document A4-4952 Rev. 0	dated	02.04.2007
- Safety instructions F-284A Rev. 0 (10 pg.)	dated	21.03.2007
- Attestation of conformity for components n. 0020	dated	21.03.2007

One copy of all documents is kept in CESI files.

Questo documento può essere riprodotto solo integralmente e senza alcuna variazione.

EXTENSION n. 04/07

to EC-Type Examination Certificate CESI 01ATEX034U

Schedule of limitations

- The ambient temperature range of empty enclosures series GUB... and CCA... in execution Ex d I; Ex d IIC; and Ex tD A21 is: $-20 \div +60$ °C.
- The ambient temperature range of empty enclosures series GUB... and CCA...E with only threaded joint and without the accessories, control-signal operators, windows and with silicone gasket Bluetech SI/50 placed between the body and the cover is -20 °C to 150 °C.
- The enclosures for group I M2 are made in stainless steel (series CCAI.. oppure GUB.. e CCA..E) in this case are admitted only stainless steel command and signal operators series M-0 (drawing A2-4137 rev.2) onto enclosures.
- The sealing used for windows and for signalling lamps shall not be submitted to a temperature higher than 100 °C.
- The maximum service temperature of empty enclosures series GUB... and CCA... with the accessories, control-signal operators and windows shall not exceed 100 °C.
- The maximum service temperature of empty enclosures series GUB... and CCA... without the accessories, control-signal operators, windows and with the silicone gasket Bluetech SI/50 placed between the body and the cover shall not exceed 170 °C.
- The contents of the enclosure shall comply with the appropriate requirements of relevant standards for electrical apparatus.

Essential Health and Safety Requirements

Compliance with the Health and Safety Requirements has been assured by compliance with the following standards:

EN 60079-0: 2006 - Electrical apparatus for explosive gas atmospheres. Part 0: General requirements

EN 60070-1: 2004 - Electrical apparatus for explosive gas atmospheres. Part 1: Flameproof enclosure

EN 61241-0: 2006 - Electrical apparatus for use in the presence of combustible dust. Part 0: General requirements

EN 61241-1: 2004 - Electrical apparatus for use in the presence of combustible dust. Part 1: Protection by enclosures "tD"

EXTENSION n. 05/10



to EC-Type Examination Certificate CESI 01 ATEX 034U

Component: Empty enclosures series CCA and GUB for electrical equipment

Manufacturer: **COR.TEM S.p.A.**

Address: Via Aquileia, 10 – 34070 Villesse (GO) - Italy

Admitted variation

- Conformity to new edition of EN60079-1: 2007 standard;
- Modification of the minimum ambient temperature for enclosures of group II;
- Add new enclosure type: GUB-05.

Identification and description of the component

The empty enclosures series CCA and GUB have identification, constructional characteristics and safety marking code conform to those indicated in the certificate CESI 01 ATEX 034U and annexed extensions with addition of new characteristics and admitted variation as indicated in this extension.

This extension and annexed descriptive documents must be annexed to the EC-Type Examination Certificate CESI 01 ATEX 034U.

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date 4th February 2010 - translation issued the 4th February 2010

prepared Damiano Cavanna

verified Mirko Balaz

approved Fiorenzo Bregani



CESI S.p.A.
Energy Division
"Certification Technical Department"
The Manager


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EXTENSION n. 05/10

to EC-Type Examination Certificate CESI 01 ATEX 034U

Admitted constructional modifications

The empty enclosures series in subject increase of an new enclosure size named GUB-05, with type of protection:

- **Ex d IIC Ex tD A21 IP66**
- **Ex d I IP66** (only for stainless steel boxes)

The enclosure GUB-05 has not glass window.

Ambient temperature

- 20 ÷ +60 °C For all types of empty enclosure.
- 50 ÷ +60 °C For all types of empty enclosure of group II with or without glass windows sealed in the cover; only silicon gasket for IP protection shall be used. When polycarbonate pilot lights are installed on enclosure the minimum ambient temperature admitted is -40 °C.
- 50 ÷ +150 °C For empty enclosure series GUB and CCA...E of group II, with threaded joint cover-enclosure coupling only, without glass windows sealed in the cover and without control-signal operators; only silicon gasket for IP protection shall be used.

Report n. EX-B0004622

Routine tests

The manufacturer shall carry out the routine tests prescribed at paragraph 27 of 60079-0: 2006 standard, at paragraph 16 of the EN 60079-1: 2007 standard and paragraph 24 of EN 61241-0: 2006 standard.

The routine overpressure test shall be carried out on empty enclosure with the static method (paragraph 15.1.3.1 of EN 60079-1 standard), at:

13.5 bar for minimum ambient temperature until -20 °C; **16.5 bar** for minimum ambient temperature until -50 °C

Descriptive documents (prot. EX-B0004624)

- | | | |
|--|-------|------------|
| - Technical note A4-5047 (pg. 2) | dated | 03.02.2009 |
| - Safety Instruction mod. F-284A rev. 1 (pg. 10) | dated | 03.02.2009 |
| - Drawing N. A2-5044 (2 sheets) | dated | 03.02.2009 |
| - Drawing N. A1-4109 rev.2 | dated | 03.02.2009 |

One copy of all documents is kept in CESI files.

Schedule of limitations

- The empty enclosures shall be used in the ambient temperature range above indicated.
- Maximum service temperature of the empty enclosures:
 - +100 °C For all types of empty enclosure.
 - +170 °C For empty enclosure without control-signal operators; only silicon gasket for IP protection shall be used.
 - +80 °C For empty enclosure with NBR gasket.

Essential Health and Safety Requirements

The Essential Health and Safety Requirements are assured by compliance to the following standards:

- EN 60079-0: 2006 - Electrical apparatus for explosive gas atmosphere - General requirements.
- EN 60079-1: 2007 - Equipment protection by flameproof enclosure "d"
- EN 61241-0: 2006 - Electrical apparatus for use in the presence of combustible dust - General requirements
- EN 61241-1: 2004 - Protection by enclosures "tD"

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**EXTENSION n. 06/12**

to EC-Type Examination Certificate CESI 01 ATEX 034U

Component: Empty enclosures series CCA and GUB for electrical equipment.**Manufacturer:** COR.TEM S.p.A.**Address:** Via Aquileia, 10 – 34070 Villesse (GO) – Italy.**Admitted variation**

- Update to new edition of EN60079-0: 2009, EN 60079-1: 2007, EN 60079-31: 2009 standards.

Conformity to new edition of the harmonized European standard

The equipment subject of the certificate CESI 01 ATEX 034U and annexed extension are conform to the standards:

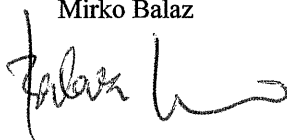
EN 60079-0: 2009 EN 60079-1: 2007 EN 60079-31: 2009

The component shall be marked as follows:

 **I M2** **Ex d I Mb** (*Stainless Steel enclosures only*)
 **II2GD** **Ex d IIC Gb**
Ex tb IIC Db
IP66

This extension and annexed descriptive documents must be annexed to the EC-Type Examination Certificate CESI 01 ATEX 034U.

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Date 3th April 2012 - translation issued the 3th April 2012**Prepared**
Mirko Balaz**Approved**
Fiorenzo Bregani

CESI S.p.A.
Testing & Certification Division
Business Area Certification
Responsabile
Fiorenzo Bregani

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PRD N. 018B
Membro degli Accordi di Mutuo
Riconoscimento EA, IAF e ILAC
Signatory of EA, IAF and ILAC
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P.I. IT00793580150
N. R.E.A. 429222

EXTENSION n. 06/12

to EC-Type Examination Certificate CESI 01 ATEX 034U

Description of components

The empty enclosures series CCA-.. and GUB-.. and CCAI-.. have identification, constructional characteristics and marking code conform to those indicated in the certificate CESI 01 ATEX 034U and annexed extensions with addition of admitted variation as indicated in this extension.

Admitted constructional modifications

All types of empty enclosure are supplied with red Silicon gasket with service temperature range of $-60^{\circ}\text{C} \div +200^{\circ}\text{C}$.

Ambient temperature

- 20 ÷ +60 °C For all types of empty enclosure.
- 50 ÷ +60 °C For all types of empty enclosures of group II with or without glass window sealed in the cover. When polycarbonate pilot lights are installed on enclosure the minimum ambient temperature admitted is -40°C .
- 50 ÷ +150 °C For empty enclosures series GUB and CCA and CCAI-.. of group II, with threaded joint cover-enclosure coupling only, without glass windows sealed in the cover and without control-signal operators.

Cable entries

The accessories used for cable entries and plugs for not used holes shall be subject of separate certification, suitable for type of enclosure execution, according to the applicable standards.

Report n. EX-B2010945

Routine tests

The manufacturer shall carry out the routine tests prescribed at paragraph 27 of 60079-0 standard, at paragraph 16 of the EN 60079-1 standard and paragraph 6 of EN 60079-31 standard.

The routine overpressure test shall be carried out on empty enclosure with the static method (paragraph 15.1.3.1 of EN 60079-1 standard), at:

- 13.5 bar for minimum ambient temperature until -20°C .
- 16.5 bar for minimum ambient temperature until -50°C .

Descriptive documents (prot. EX- B2010948)

- Technical Note A4-5627 (pg. 3)	rev.0	dated	08.03.2012
- Safety Instruction mod. F-284A (pg. 12)	rev.2	dated	08.03.2012
- Attestation of Conformity (pg. 1)	rev.0	dated	08.03.2012

One copy of all documents is kept in CESI files.

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EXTENSION n. 06/12

to EC-Type Examination Certificate CESI 01 ATEX 034U

Schedule of limitations

- The empty enclosures shall be used in the ambient temperature range indicated on the previous page.
- Screws of quality A2-70 must be used.
- Maximum service temperature of the empty enclosures:
 - +100 °C For all types of empty enclosures.
 - +170 °C For empty enclosures without control-signal operators.

Special conditions for safe use (X)

None.

Essential Health and Safety Requirements

The Essential Health and Safety Requirements are assured by compliance to the following standards:

- EN 60079-0: 2009 Explosive atmospheres – Part 0: Equipment - General requirements;
- EN 60079-1: 2007 Explosive atmospheres – Part 1: Equipment protection by flameproof enclosure “d”;
- EN 60079-31: 2009 Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure “t”.