



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 CES 11.0012X Issue No.:0 Certificate history:

Status: **Current**

Date of Issue: **2012-11-30** Page 1 of 4

Applicant: **CORTEM S.p.A.**
Via Aquileia 10
I - 34070 Villesse (GO)
Italy

Electrical Apparatus: **Socket devices series FSQC-... and plugs series FP-...**
Optional accessory:

Type of Protection: **Flameproof enclosures 'd'; Dust ignition protection by enclosure 't'**

Marking: Ex d IIC T6 Gb
Ex tb IIIC T85°C Db IP65


*Approved for issue on behalf of the IECEx
Certification Body:*

Mirko Balaz

Position:

Head of IECEx CB

*Signature:
(for printed version)*


30-11-2012

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:

CESI
Centro Elettrotecnico
Sperimentale Italiano S.p.A.
Via Rubattino 54
20134 Milano
Italy

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

Florenzo Bregani



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Manufacturer: **CORTEM S.p.A.**
Via Aquileia 10
I - 34070 Villesse (GO)
Italy

Additional 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 : 2007-10
Edition: 5 | Explosive atmospheres - Part 0: Equipment - General requirements |
| IEC 60079-1 : 2007-04
Edition: 6 | Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d" |
| IEC 60079-31 : 2008
Edition: 1 | Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t" |

*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:

IT/CES/ExTR11.0013/00

Quality Assessment Report:

IT/CES/QAR06.0002/06



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The socket device series FSQC-... and plug series FP-..., with flameproof socket outlet and plug are suitable for cable connection in potentially explosive areas. Powering up of equipment is done by inserting the plug, which acts on the internal circuit breaker.

The FSQC... series socket outlets are provided by interlock device, so the plug can be inserted when the switch is in "off" position and cannot be removed when the switch is in "on" position.

The FSQC... series socket outlets are composed of a body complete with two cable/conduit entries, a threaded cover and a coupling that contains the insulated socket with corresponding pins for various configurations. The plug is composed by a cylindrical body having threaded entry suitable for cable connection by means a cable gland or a certified stopping box. When the plug is inserted the first pin making connection to the socket is the earth pin, when the plug is withdrawn the last pin making contact is the earth pin; this assembly characteristic ensures a ground connection always on.

The FSQC series of Socket Outlets and FP series Plugs are rated up to 63 Amps, 690VAC with either 3 or 4 pins configuration.

Model reference:

FSQC-xyzz

xx- hubs size (23 = 2 X 1", 33 = 2 X 1 1/2")

y- number of poles (3, 4)

zz- max. current-A (10, ..., 63A)

FP-2w

2- size

w- number of poles (3, 4)

CONDITIONS OF CERTIFICATION: YES as shown below:

- The flamepaths are specified in the manufacturer drawings. For information regarding the dimensions of the flameproof joints the manufacturer shall be contacted.
- The condition of the installation of the Socket devices series FSQC-... and plug series FP-..., are included within the safety instructions. For a safe use these assembling instructions are to be followed precisely.
- The accessories used for cable entries into enclosures shall be subject of separate certification, suitable for type of protection Ex-d and Ex-tb and guarantee a minimum degree of protection IP 65 in compliance with the IEC 60529 Standard.



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EQUIPMENT(continued):

Rating:

- Rated voltage: max 690 Vac
- Rated current: 16 – 32 - 63 A
- Rated frequency: 50 / 60 Hz
- N° pin: 3 + 4
- Conductor section: 10 mm²
- Degree of protection: IP 65
- Ambient temperature: - 20 + + 40 °C with internal switch with nominal current of 100 A
- 20 + + 55 °C with internal switch with nominal current of 125 A

Temperature classes and maximum surface temperatures

For gas group IIC - T6 (Tamb. -20°C + +40°C or - 20°C + +55°C)

For dust group IIIC - T85 °C (Tamb. -20°C , +40 ° C or -20°C + + 55 °C).

Cable entries

The accessories used for cable entries and to close the unused holes shall be suitably certified.

Warning label

For sockets 63A with maximum ambient temperature of + 40 °C and for sockets 50A and 63A with maximum ambient temperature of + 55 °C a warning plate shall be added as follows:

"Use cable suitable for a minimum temperature of 100 °C".