



# 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 09.0014 issue No.: 0 Certificate history: \_\_\_\_\_

Status: **Current**

Date of Issue: 2009-03-20 Page 1 of 3

Applicant: **MARECHAL ELECTRIC S.A.**  
5, avenue de Presles  
94417 SAINT-MAURICE Cedex  
France

Electrical Apparatus: **Embedded plug and socket**  
Optional accessory:

Type of Protection: **de and tD**

Marking: **MARECHAL ELECTRIC S.A.**  
Address  
Type: DX1 or DX3  
Ex de IIC T\*  
Ex tD A21 IP65 T\*  
**WARNING – DO NOT SEPARATE WHEN ENERGIZED**  
-25°C ≤ Ta ≤\*  
Electrical parameters (Un, In)  
\*: see temperature table  
IECEx LCI 09.0014

Approved for issue on behalf of the IECEx  
Certification Body:

Marc GILLAUX

Position:

Certification manager

Signature:  
(for printed version)

Date:

**20 MARS 2009**

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

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: **MARECHAL ELECTRIC**  
5, avenue de Presles  
94417 SAINT-MAURICE Cedex  
France

Manufacturing location(s):  
**MARECHAL ELECTRIC**  
**S.A.**  
ZI de la Maine  
76150 MAROMME  
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 : 2004</b> Edition: 4.0	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
<b>IEC 60079-1 : 2003</b> Edition: 5	Electrical apparatus for explosive gas atmospheres - Part 1: Flameproof enclosure 'd'
<b>IEC 60079-7 : 2006-07</b> Edition: 4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
<b>IEC 61241-0 : 2004</b> Edition: 1	Electrical apparatus for use in the presence of combustible dust - Part 0: General requirements
<b>IEC 61241-1 : 2004</b> 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/ExTR09.0009/00

Quality Assessment Report:

FR/LCI/QAR09.0002/00



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## Schedule

### EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Combination of product assemblies, as variations:

Surface box + semi-flush appliance inlet + semi-flush socket outlet + handle

Surface box + semi-flush socket outlet + plug

Handle + semi-flush socket outlet + plug

### Temperature table:

Ambient temperature	Gas	Dust
$-25^{\circ}\text{C} \leq T_a \leq +50^{\circ}\text{C}$	T6	T74°C
$-25^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$	T5	T84°C

### Specific parameters :

Type	U <sub>max</sub> (V)	I <sub>max</sub> (A)	Number of poles
DX1	750	20	2-3 or 4 P + earth
DX3		32	

### Routine verifications and tests:

Each "e" compartment shall be submitted to the dielectric strength test in accordance with the clause 6.1 of IEC 60079-7 standard.

CONDITIONS OF CERTIFICATION: NO

Empty box for additional information or remarks.