



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 LCI 09.0015 issue No.: 1
Status: **Current**
Certificate history:
Issue No. 1 (2009-4-28)
Issue No. 0 (2009-3-20)

Date of Issue: 2009-04-28 Page 1 of 4

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: DX6, DX9, DX100 or DX2
Ex de IIC T* Ex tD A21 IP65 T*
WARNING – DO NOT SEPARATE WHEN ENERGIZED

For DX2:
On socket: **WARNING – TEMPERATURE TO BRANCHING POINT = 110°C**
On plug: **WARNING – TEMPERATURE TO BRANCHING POINT = 133°C**
TEMPERATURE OF CABLE GLAND = 91°C

*: see temperature table
IECEX LCI 09.0015

Approved for issue on behalf of the IECEx
Certification Body:

Marc GILLAUX

Position:

Certification manager

Signature:
(for printed version)



28 AVR. 2009

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

Certificate issued by:

Laboratoire Central des Industries Electriques (LCIE)
33 Avenue du General Leclerc
FR-92260 Fontenay-aux-Roses
France



LCIE



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Manufacturer: **MARECHAL ELECTRIC S.A.**
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:

IEC 60079-0 : 2004 Edition: 4.0	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
IEC 60079-1 : 2003 Edition: 5	Electrical apparatus for explosive gas atmospheres - Part 1: Flameproof enclosure 'd'
IEC 60079-7 : 2006-07 Edition: 4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
IEC 61241-0 : 2004 Edition: 1	Electrical apparatus for use in the presence of combustible dust - Part 0: General requirements
IEC 61241-1 : 2004 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/ExTR09.0006/01](#)

Quality Assessment Report:

[FR/LCI/QAR09.0002/00](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Combinaison 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

Type	Ambient temperature	Gas	Dust
DX6, DX9, DX100	$-40^{\circ}\text{C} \leq T_a \leq +50^{\circ}\text{C}$	T6	T80°C
	$-40^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$	T5	T90°C
DX2	$-40^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$	T3	T91°C

Specific parameters:

Type	U _{max} (V)	I _{max} (A)	Section (mm ²)
DX6	750	63	16
DX100		100	35
DX9		125	50
DX2		200	70

Routine verifications and tests:

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

CONDITIONS OF CERTIFICATION: NO



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

Issue n°1:

Updating of table of specific parameters (second table of page 3)