



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 09.0005X** issue No.: **2**
Status: **Current**
Date of Issue: **2011-12-30** Page 1 of 4

Certificate history:
Issue No. 2 (2011-12-30)
Issue No. 1 (2010-3-5)
Issue No. 0 (2009-2-3)

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

Electrical Apparatus: **Industrial plug and socket type DXN1**
Optional accessory:

Type of Protection: **Gas: d and e; Dust: tD**

Marking: **MARECHAL ELECTRIC S.A.**
Address: ...
Type: DXN1
Ex de IIC T*
Ex tD A21 IP66/67 T*
WARNING - DO NOT OPEN WHEN ENERGIZED (on terminals compartments)
Ue max : 550 V ; Ie = 20A Frequency : 50Hz or 60Hz
IECEx LCI 09.0005X
* : see temperature table

Approved for issue on behalf of the IECEx
Certification Body:

Julien GAUTHIER

Position:

Certification Officer

Signature:
(for printed version)

Date:

2012-01-04

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:

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





IECEx Certificate of Conformity

Certificate No.: IECEx LCI 09.0005X

Date of Issue: 2011-12-30

Issue No.: 2

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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 : 2007-04 Edition: 6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "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/ExTR08.0050/00
FR/LCI/ExTR08.0050/03

FR/LCI/ExTR08.0050/01

FR/LCI/ExTR08.0050/02

Quality Assessment Report:

FR/LCI/QAR09.0002/00

FR/LCI/QAR09.0002/01

FR/LCI/QAR09.0002/03



IECEx Certificate of Conformity

Certificate No.: IECEx LCI 09.0005X

Date of Issue: 2011-12-30

Issue No.: 2

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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Industrial socket with 2, 3, 4 or 5 contacts version constituted with two main parts which are plug and socket. The terminals are carried out inside "e" compartment of each part, with a maximum voltage 550V and maximum current 20A.

"d" compartment is used for pins contact of plug and socket.

Temperature table:

Ta	Gas	Dust
$-40^{\circ}\text{C} \leq \text{Ta} \leq +60^{\circ}\text{C}$	T5	T90°C
$-40^{\circ}\text{C} \leq \text{Ta} \leq +40^{\circ}\text{C}$	T6	T70°C

Routine verification and routine tests:

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

CONDITIONS OF CERTIFICATION: YES as shown below:

- Apparatus shall not be exposed to mechanical impact higher than 4 Joules
- User shall assured good and cleanliness conditions of socket before connecting , and close cover after use.

- Operating conditions:

Ambient temperature:

- -20°C to $+40^{\circ}\text{C}$, for standard use, with accessories in LATAMID 6E02 and with the exception of the inclined surface box 70° type B1 and inclined sleeve 70° type B1 in VESTAMID
- -40°C to $+60^{\circ}\text{C}$, for the enclosure material of acces sories and housings in VESTAMID



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Certificate No.: IECEx LCI 09.0005X

Date of Issue: 2011-12-30

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

Issue 01:

Adding of a material for safety shutter

Issue 02:

- Adding of accessories: certified empty boxes type MXBJ
- Possibility to use a metal latch
- Normative update for IEC 60079-1 Ed.6



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 09.0005X

issue No.:1

Certificate history:

Issue No. 1 (2010-3-5)

Issue No. 0 (2009-2-3)

Status:

Current

Date of Issue:

2010-03-05

Page 1 of 4

Applicant:

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

Electrical Apparatus:
Optional accessory:

Industrial plug and socket type DXN1

Type of Protection:

Gas: d and e; Dust: tD

Marking:

MARECHAL ELECTRIC S.A.
Address:
Type: DXN1
Ex de IIC T*
Ex tD A21 IP66/67 T*
WARNING - DO NOT OPEN WHEN ENERGIZED
(on terminals compartments)
Ue max : 550 V ; Ie = 20A
Frequency : 50Hz or 60Hz
IECEX LCI 09.0005X
*** : see temperature table**

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

Marc GILLAUX

Position:

Certification Manager

*Signature:
(for printed version)*

Date:

05 MARS 2010

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33 Avenue du General Leclerc
FR-92260 Fontenay-aux-Roses
France



L C I E



IECEx Certificate of Conformity

Certificate No.: IECEx LCI 09.0005X

Date of Issue: 2010-03-05

Issue No.: 1

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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

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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/ExTR08.0050/00
FR/LCI/ExTR08.0050/01
FR/LCI/ExTR08.0050/02

Quality Assessment Report:

FR/LCI/QAR09.0002/00
FR/LCI/QAR09.0002/01



IECEx Certificate of Conformity

Certificate No.: IECEx LCI 09.0005X

Date of Issue: 2010-03-05

Issue No.: 1

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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Industrial socket with 2, 3, 4 or 5 contacts version constituted with two main parts which are plug and socket. The terminals are carried out inside "e" compartment of each part, with a maximum voltage 550V and maximum current 20A.
"d" compartment is used for pins contact of plug and socket.

Temperature table:

Ta	Gas	Dust
$-40^{\circ}\text{C} \leq \text{Ta} \leq +60^{\circ}\text{C}$	T5	T90°C
$-40^{\circ}\text{C} \leq \text{Ta} \leq +40^{\circ}\text{C}$	T6	T70°C

Routine verification and routine tests:

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

CONDITIONS OF CERTIFICATION: YES as shown below:

- Apparatus shall not be exposed to mechanical impact higher than 4 Joules
- User shall assured good and cleanliness conditions of socket before connecting , and close cover after use.

- Operating conditions:

Ambient temperature:

- -20°C to $+40^{\circ}\text{C}$, for standard use, with accessories in LATAMID 6E02 and with the exception of the inclined surface box 70° type B1 and inclined sleeve 70° type B1 in VESTAMID
- -40°C to $+60^{\circ}\text{C}$, for the enclosure material of accessories and housings in VESTAMID



IECEx Certificate of Conformity

Certificate No.: IECEx LCI 09.0005X

Date of Issue: 2010-03-05

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

Issue 1 : Addition of a new plastic material for safety disk



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Certificate No.: IECEx LCI 09.0005X issue No.:0 Certificate history:.....

Status: **Current**

Date of Issue: **2009-02-03** Page 1 of 3

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

Electrical Apparatus: **Industrial plug and socket type DXN1**
Optional accessory:

Type of Protection: **Gas: d and e; Dust: tD**

Marking: **MARECHAL ELECTRIC S.A.**
Address:
Type: DXN1
Ex de IIC T*
Ex tD A21 IP66/67 T*
WARNING - DO NOT OPEN WHEN ENERGIZED
(on terminals compartments)
Ue max : 550 V ; Ie = 20A
Frequency : 50Hz or 60Hz
IECEx LCI 09.0005X
*** : see temperature table**

Approved for issue on behalf of the IECEx
Certification Body:

Marc GILLAUX

Position:

Certification Manager

Signature:
(for printed version)

Date:

03 FEB. 2009

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IECEX Certificate of Conformity

Certificate No.: IECEx LCI 09.0005X

Date of Issue: 2009-02-03

Issue No.: 0

Page 2 of 3

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5, avenue de Presles
94417 SAINT-MAURICE Cedex
France

Manufacturing location(s):
**MARECHAL ELECTRIC
S.A.**
ZI de la Maine
76150 MAROMME
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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"

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TEST & ASSESSMENT REPORTS:

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Test Report:

FR/LCI/ExTR08.0050/00
FR/LCI/ExTR08.0050/01

Quality Assessment Report:

FR/LCI/QAR09.0002/00



IECEX Certificate of Conformity

Certificate No.: IECEx LCI 09.0005X

Date of Issue: 2009-02-03

Issue No.: 0

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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Industrial socket with 2, 3, 4 or 5 contacts version constituted in two main parts which are plug and connector. The electrical connection is carried out inside "e" compartment of each part, with a maximum voltage 500V and maximum current 20A.
"d" compartment represents connection of two parts.

Temperature table:

Ta	Gas	Dust
-40°C ≤ Ta ≤ +60°C	T5	T90°C
-40°C ≤ Ta ≤ +40°C	T6	T70°C

Routine verification and routine tests:

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

CONDITIONS OF CERTIFICATION: YES as shown below:

- Apparatus shall not be exposed to mechanical impact higher than 4 Joules

- User shall assured good and cleanliness conditions of socket before connecting , and close cover after use.

- Operating conditions:

Ambient temperature: -20°C to +40°C, for standard use, with accessories in LATAMID 6E02 (with the exception of the surface box 70°C type B1 and inclined sleeve 70°C type B1 in VESTAMID)

Specific temperature: -40°C to +60°C, for the enclosure material of accessories and housings in VESTAMID