



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 09.0007** issue No.:1
Status: **Current**
Date of Issue: **2011-12-30** Page 1 of 4

Certificate history:
Issue No. 1 (2011-12-30)
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**
Optional accessory:

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

Marking: **MARECHAL ELECTRIC S.A.**
Address: Type: DYN6
Ex de IIC T*
Ex tD A21 IP66/67 T*
WARNING - DO NOT OPEN WHEN ENERGIZED (on terminals compartment)
THIS APPARATUS SHALL NOT BE SUBMITTED TO MECHANICAL IMPACTS
MORE THAN 4 JOULES (version with carter in VALOX)
Un, In
IECEX LCI 09.0007
*: see temperature table

Approved for issue on behalf of the IECEx
Certification Body:

Julien GAUTHIER

Position:

Certification Officer

Signature:
(for printed version)

Date:

2011 12/30

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





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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/ExTR08.0055/00

FR/LCI/ExTR08.0055/01

FR/LCI/ExTR08.0055/02

Quality Assessment Report:

FR/LCI/QAR09.0002/00

FR/LCI/QAR09.0002/02

FR/LCI/QAR09.0002/03



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Industrial plug and socket with 2, 3, 4, or 5 contacts version with optionally 2 auxiliary contacts 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 750V (550V with auxiliary contacts) and maximum current 60A or 63A and 5A for auxiliary contacts.

"d" compartment represents connection of two parts.

Temperature tables:

DXN6 + DXN6 alternative with box type MXBJ (MXBJ2 up to MXBJ5)

In	For Gas		For Dust	
	$-40^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$	$40^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$	$40^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$	$40^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$
60A	T6	T4	T80°C	T100°C
63A	T5	T4	T87°C	T107°C

DXN6 alternative with box type MXBJ (MXBJ6 up to MXBJ10)

In	For Gas		For Dust	
	$-40^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$	$40^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$	$40^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$	$40^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$
60A	T6	T4	T76°C	T96°C
63A	T6	T4	T76°C	T96°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

Electric parameters:

		U _{emax}	I _{emax}
Standard version		750V	60/63A
Auxiliaries version	Main circuit	550V	60/63A
	Auxiliary circuit	550V	5A

CONDITIONS OF CERTIFICATION: NO



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

Issue 01:

- Added of accessories: certified empty boxes type MXBJ (MXBJ2 up to MXBJ10)
- Possibility to use a metal latch
- Added alternative of socket casing/cover/latch
- Normative update for IEC 60079-1 Ed. 6



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Certificate No.: IECEx LCI 09.0007 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**
Optional accessory:

Type of Protection: **Type DNX6**

Marking: **MARECHAL ELECTRIC S.A.**
Address:
Type: DNX6
Ex de IIC T*
Ex tD A21 IP66/67 T*
WARNING - DO NOT OPEN WHEN ENERGIZED (on terminals compartment)
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THAN 4 JOULES (version with carter in VALOX)
Un, In
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Approved for issue on behalf of the IECEx
Certification Body:

Marc GILLAUX

Position:

Certification manager

Signature:
(for printed version)

Date:

03 FEV. 2009

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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
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