



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.: 3
Status: **Current**
Date of Issue: **2016-02-19** Page 1 of 6

Certificate history:
Issue No. 3 (2016-2-19)
Issue No. 2 (2013-8-8)
Issue No. 1 (2011-12-30)
Issue No. 0 (2009-2-3)

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

Electrical Apparatus: **Industrial plug and socket, type DXN6**
Optional accessory:

Type of Protection: **Gas: d, e, Dust: t**

Marking: Ex d e IIC T* Gb **alternate** Ex db eb IIC T*
Ex tb IIIC T* Db **alternate** Ex tb IIIC T* IP66/67
IECEx LCI 09.0007
For complete marking see "Equipment" section.


Approved for issue on behalf of the IECEx
Certification Body:

Julien GAUTHIER

Position:

Certification Officer

Signature:
(for printed version)


2016-02-19

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:

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

Documents relative to LCIE certification activities (Certificates, QARs, ExTRs) can be registered under the references "LCI" or "LCIE".





IECEx Certificate of Conformity

Certificate No.: IECEx LCI 09.0007

Date of Issue: 2016-02-19

Issue No.: 3

Page 2 of 6

Manufacturer: **MARECHAL ELECTRIC**
ZI de la Maine
76150 MAROMME
France

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 : 2011 Edition: 6.0	Explosive atmospheres - Part 0: 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"
IEC 60079-7 : 2006-07 Edition: 4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

*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/ExTR08.0055/03

FR/LCI/ExTR08.0055/01
FR/LCI/ExTR08.0055/04

FR/LCI/ExTR08.0055/02

Quality Assessment Report:

FR/LCI/QAR09.0002/07



IECEx Certificate of Conformity

Certificate No.: IECEx LCI 09.0007

Date of Issue: 2016-02-19

Issue No.: 3

Page 3 of 6

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Industrial plug and socket with 2, 3, 4, or 5 contacts version, and with optionally 2 auxiliary contacts constituted in two main parts which are plug and connector.

The equipment consist of two main parts: the inlet (plug) and the socket-outlet (connector).

"d" compartment results from assembly of the inlet and socket-outlet.

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.

For temperature table see Equipment information.

For possible arrangement see Additional information.

Electric parameters:

		U _e _{max}	I _e _{max}
Standard version		750V AC/DC	60/63A
Auxiliaries version	Main circuit	550V AC/DC	60/63A
	Auxiliary circuit	550V AC/DC	5A

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: NO



IECEx Certificate of Conformity

Certificate No.: IECEx LCI 09.0007

Date of Issue: 2016-02-19

Issue No.: 3

Page 4 of 6

EQUIPMENT(continued):

Marking:

MARECHAL ELECTRIC

Address: ...

Type: DXN6

Serial number : ...

Year of construction : ...

Ex d e IIC T* Gb alternate Ex db eb IIC T*

Ex tb IIIC T* Db alternate Ex tb IIIC T* IP66/67

IECEx LCI 09.0007

WARNING – DO NOT OPEN WHEN ENERGIZED (on accessories)

*: Temperature tables:

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

In	For gas atmosphere		For dust atmosphere	
	$-40^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$	$-40^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$	$-40^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$	$-40^{\circ}\text{C} \leq a \leq +60^{\circ}\text{C}$
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 atmosphere		For dust atmosphere	
	$-40^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$	$-40^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$	$-40^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$	$-40^{\circ}\text{C} \leq a \leq +60^{\circ}\text{C}$
60A	T6	T4	T76°C	T96°C
63A	T6	T4	T76°C	T96°C



IECEx Certificate of Conformity

Certificate No.: IECEx LCI 09.0007

Date of Issue: 2016-02-19

Issue No.: 3

Page 5 of 6

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 standard.

Issue 02:

- Addition of new materials : casing, wall box, pawl, internal parts (retaining ring)
- Addition of new socket-outlet front gasket
- Addition of intrinsically safe protection mode according to IEC 60079-11 Ed.6.0 standard.
- Normative update according to IEC 60079-0 Ed.5 and IEC 60079-31 Ed.1 standards.

Issue 03:

- Clarification of AC and DC voltage
- Correction of current in table with 60/63A instead of 32A
- Possibility to have lockout hole in the inlet housing
- Remove the intrinsically safe type of protection
- Change of accessories' gaskets
- Change of male contacts
- New materials for the safety shutter and the ferule
- Addition of new ejection ring
- Addition of new option: self-ejection
- Normative update according to standard IEC 60079-0 Ed.6



IECEx Certificate of Conformity

Certificate No.: IECEx LCI 09.0007

Date of Issue: 2016-02-19

Issue No.: 3

Page 6 of 6

Additional information:

Possible arrangement for Industrial plug and socket outlet:

Designation Accessories	+	Designation Inlet	+	Designation Socket-outlet	+	Designation Accessories
Handle with gasket and a cable gland		Appliance inlet (+2 aux.)		Socket-outlet(lid sprung open) (+2 aux)		Handle with flat gasket and cable gland
Surface box with 2 cable entries, 1 cable gland, 1 blanking cap, both with a gasket		Padlockable appliance inlet (+2 aux)		Socket-outlet(lid sprung closed) (+2 aux)		Surface box with 2 cable entries, 1 cable gland, 1 blanking cap, both with a gasket
Accessories (plug/inlet cap or cover)				Socket-outlet with 180° lid sprung open(+2 aux)		Finger draw plate
Surface box 70° type B2				Socket-outlet with 180° lid open and lid sprung closed (+2 aux)		Surface box 70° type B2
Finger draw plate				Socket-outlet with 'mushroom-headed' latch or pad lockable(lid sprung open) (+2 aux)		Inclined sleeve 30°
Inclined sleeve 70° type B2				Socket-outlet with 'mushroom-headed' latch or pad lockable(lid sprung closed) (+2 aux)		Inclined sleeve 70° type B2
Inclined sleeve 30°						Adapter plate
Adapter plate						Empty box (MXBJ2 to MXBJ10)
Empty box (MXBJ2 to MXBJ10)						Box B2X + wiring + inclined sleeve 70°
Box B2X + wiring + inclined sleeve 70°						