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 09.0006 issue No.:3	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)
Status:	**Current**	
Date of Issue:	**2016-02-19**	Page 1 of 6

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

Electrical Apparatus: **Industrial Plug and Socket Type DXN3**
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 09.0006
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)

Date: 2016-02-19

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 activites (Certificates, QARs, ExTRs) can be registered under the references "LCI" or "LCIE".

IECEx Certificate of Conformity

Certificate No.: IECEx LCI 09.0006

Date of Issue: **2016-02-19** Issue No.: **3**

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/ExTR08.0054/00 FR/LCI/ExTR08.0054/01 FR/LCI/ExTR08.0054/02
FR/LCI/ExTR08.0054/03 FR/LCI/ExTR08.0054/04

Quality Assessment Report:

FR/LCI/QAR09.0002/07

IECEx Certificate of Conformity

Certificate No.: IECEx LCI 09.0006

Date of Issue: **2016-02-19** Issue No.: **3**

Schedule

EQUIPMENT:
Equipment and systems covered by this certificate are as follows:

Industrial plug and socket with 2, 3, 4 or contacts version, and with optionally 2 auxiliary contacts constituted in two main parts which are plug and connector.
The equipment consists 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 auxiliary contacts) and maximum current 32A and 5A for auxiliary contacts.

For temperature class see "Equipment" information.
For possible arrangement see" Additional information".

Electrical parameters:

		Ue_{max}	Ie_{max}
Standard version		750V AC/DC	32A
Auxiliaries version	Main circuit	550V AC/DC	32A
	Auxiliary circuit	550V AC/DC	5V

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

EQUIPMENT(continued):

Marking:

MARECHAL ELECTRIC
Address : ...
Type : DXN3
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 09.0006
WARNING – DO NOT OPEN WHEN ENERGIZED (on accessories)

***: Temperature table:**

Ambient temperature	Temperature class	Maximum surface temperature
-40°C ≤Ta ≤+40°C**	T6	T78°C (Tin plated pin)
		T57°C (Silver plated pin)
-40°C ≤Ta ≤+60°C	T5	T98°C (Tin plated pin)
		T77°C (Silver plated pin)

****: for the version with VALOX casings and LATAMID 6E02 or VESTAMID accessories, ambient temperature shall be -40°C ≤ Ta ≤ +40°C**

IECEx Certificate of Conformity

Certificate No.: IECEx LCI 09.0006

Date of Issue: **2016-02-19** Issue No.: **3**

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

Issue 01:

- Added alternative of socket casing/cover/latch
- Added of a material for safety shutter
- Added new plating for the pin
- Added of accessories: certified empty boxes type MXBJ
- Possibility to use a metal latch
- Normative update for IEC 60079-1 Ed 6 standard

Issue 02:

- Addition of new materials : casing, wall box, pawl, internal parts (retaining ring, retaining clip)
- Addition of new socket-outlet front gasket
- Update of voltage of auxiliary circuit: U=550V instead of U=440V
- Addition of intrinsically safe protection mode according to IEC 60079-11 Ed.6 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
- Possibility to have lockout hole in the inlet housing
- Remove the intrinsically safe type of protection
- Change of accessories' gaskets
- Addition of new option: self-ejection
- Normative update according to IEC 60079-0 Ed.6 standard

IECEx Certificate of Conformity

Certificate No.: IECEx LCI 09.0006

Date of Issue: **2016-02-19** Issue No.: **3**

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 B1				Socket-outlet with 180° lid open and lid sprung closed (+ 2 aux)		Surface box 70° type B1
Finger draw plate				Socket-outlet with 'mushroom-headed' latch or padlockable (lid sprung open or lid sprung closed) (+ 2 aux)		Inclined sleeve 30°
Inclined sleeve 70° type B1						Inclined sleeve 70° type B1
Inclined sleeve 30°						Adapter plate
Empty box (MXBJ1 to MXBJ10)						Empty box (MXBJ1 to MXBJ10)
Adapter plate						