

**MARINE DIVISION**

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Certificate number: 20795/A0 BV

File number : ACE 15/767/01

Product code : 2552D

*This certificate is not valid when presented without the full attached schedule composed of 7 sections*

## TYPE APPROVAL CERTIFICATE

*as per Bureau Veritas Classification Rules*

*This certificate is issued to*

**MARECHAL ELECTRIC**  
SAINT- MAURICE - FRANCE

*for the type of product*

**PLUGS AND SOCKETS**

Ex Plugs and Sockets.  
Type: DXN1, DXN3 and DXN6.

**Regulations and standards :**

BUREAU VERITAS Rules for the Classification of Steel Ships.  
IEC 60309-1:2005, IEC 60079-0/1/7.

*This certificate is issued to attest that BUREAU VERITAS did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements of the Regulations and standards mentioned above.*

**This certificate is valid until : 01 Aug 2013**

At Paris la Défense, on : 01 Aug 2008

**For BUREAU VERITAS,**  
*By order of the Secretary*

Approval office

Local office : BV LE HAVRE

Surveyor : F. Andrieu

L.COUREGELONGUE



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with BUREAU VERITAS. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of BUREAU VERITAS Marine Division. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against BUREAU VERITAS for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

## THE SCHEDULE OF APPROVAL

### 1. PRODUCT DESCRIPTION :

**DXN1, DXN3 and DXN6** - Plugs and Sockets for Explosive atmospheres.

#### 1.1 - Main Characteristics:

	<b>DXN1</b>	<b>DXN3</b>	<b>DXN6</b>
Rated Voltage:	550 V AC Max.	750 V AC Max.	750 V AC Max.
Rated Current:	20A	32A	63A
Number of Contact:	2 to 5		
Protection Index:	IP 66/67		
Ex Marking:	Ex ed IIC T5 or T6		
Use Temperature:	-40°C to +40°C or -40°C to +60°C depending on Ex classification		

### 2. DOCUMENTS AND DRAWINGS :

#### **Marechal Electric:**

General Catalogue 2008

DXN - Operating Instructions N° 7E - Rev. 9

Drawings: DXN1 - No. 5-2-6096 Rev. B1 dated 24/06/08, DXN3 - No. 5-2-6097 Rev. B0 dated 01/07/08 and DXN6 - No. 5-2-6098 Rev. B0 dated 01/07/08

Technical Files No. DT/DXN1/BVM/08 Rev. A, No. DT/DXN3/BVM/08 Rev. A and No. DT/DXN6/BVM/08 Rev. A, all dated 27/06/08.

### 3. TEST REPORTS :

#### **LCIE:**

Test Plan for Marine Certification of Plugs and Sockets, Report No. 80123-569004A dated 7 April, 2008.

Environmental Test Report No. 81838-571667D dated 21 May 2008.

#### **Ex Certificates of Conformity:**

DXN1 - LCIE N° Ex 99.007X dated 8 December, 1999 and Variations 1 & 2 dated 8 February, 2006.

DXN3 - LCIE N° Ex 06.002 dated 10 February, 2006.

DXN6 - LCIE N° Ex 06.003 dated 10 February, 2006.

#### **Marechal Electric:**

DXN1/DXN3/DXN6 - In-house Test Certificates (IEC 60309-1:2005 (ed 4.1)) all dated 17/07/2008.

### 4. APPLICATION / LIMITATION OF USE:

4.1 - BUREAU VERITAS Rules for the Classification of Steel Ships.

4.2 - Approval also valid for units having to comply with IMO Resolution A649 (The "MODU Code").

4.3 - Approval also valid for ships having to comply with BV Rules for the Classification and the Certification of Yachts.

### 5. PRODUCTION SURVEY REQUIREMENTS :

**MARECHAL ELECTRIC** has declared to Bureau Veritas that the type of product described in this certificate are manufactured at the following production site:

**MARECHAL ELECTRIC**  
**2 rue Denis Papin, Z.I. de la Maine**  
**76150 MAROMME**  
**FRANCE**

### 6. MARKING OF PRODUCT :

- According to IEC 60309-1.

- Ex marking, as relevant.



**7. OTHERS :**

This approval is given on the understanding that the Society reserves the right to require check tests to be carried out on the units at any time and that:

**MARECHAL ELECTRIC  
5 avenue du chemin des Presles  
94417 SAINT- MAURICE  
FRANCE**

will accept full responsibility for informing shipbuilders, ship-owners or their sub-contractors of the proper methods of use and general maintenance of the units and the conditions of this approval.

\*\*\* END OF CERTIFICATE \*\*\*

