

**MARINE DIVISION**

17 bis Place des Reflets - La Défense 2  
92400 Courbevoie - France

Tel. 33 1 42 91 52 91  
Fax. 33 1 42 91 28 94  
www.veristar.com



**Certificate number:** 11946/B0 BV

**File number :** ACE 15/280/06

**Product code :** 2751H

*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*

**SAREL**  
Sarre-Union - FRANCE

*for the type of product*

### ENCLOSURES (MEDIUM/HIGH VOLTAGE)

Type: THALASSA 79000

**Regulations and standards :**

BV Rules for the Classification of Steel Ships.

*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 : 13 Sep 2010**

At Paris la Défense, on : 13 Sep 2005

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

Approval office

Local office : BV MADRID  
Surveyor : J. Garcia-de-Duenas

  
J. BENOIT



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:**

**ENCLOSURES**  
**(MEDIUM/ HIGH VOLTAGE)**  
Type: **THALASSA 79000**

- Different sizes
- One and two doors
- IP 65 (EN 60529)

### **2. DOCUMENTS AND DRAWINGS:**

According to Manufacturer's specifications filed in ACE 15/280/06.

### **3. TEST REPORTS:**

- 3.1 - Test reports N°s: 12900.I issued by HIMEL on 26/04/98.  
12800.I issued by HIMEL on 02/03/00.

3.2 - The tests were witnessed by a Society's Surveyor.

### **4. APPLICATION / LIMITATION:**

- According to BV Rules for the Classification of Steel Ships.

#### **On board installation & Maintenance requirements:**

- The equipment, once installed on board ship, is to be tested in accordance with the above referred Regulations under the supervision of a Society's Surveyor.

### **5. PRODUCTION SURVEY REQUIREMENTS:**

5.1 - Arrangement shall be made for a Society's Surveyor to carry out, on a periodic basis, visits of the manufacturer's premises and product audits.

5.2 - Each equipment is to be supplied with manual(s) for installation, use and maintenance.

### **6. MARKING OF PRODUCT:**

- Maker's name or trade mark.
- Serial number of the units.
- Equipment type number or model identification under which it was type-tested.

### **7. OTHERS:**

7.1 - 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 **SAREL, Sarre-Union - Spain**, will accept full responsibility for informing shipbuilders, shipowners or their sub-contractors of the proper methods of use and general maintenance of the units and the conditions of this approval.

7.2 - This certificate is the distributor of Type Approval Certificate n° 10112/B0 BV issued for **HISPANO MECANO ELECTRICA S.A., Capellades (Barcelona) - Spain** on 12/09/2005 by the Society.

7.3 - This certificate supersedes the Type Approval Certificate n° 11946/A1 BV issued on 04/09/2002 by the Society.

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