



Marine & Offshore  
Division

Certificate number: 43636/A0 BV

File number: AP 4659

Product code: 2631H

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

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## TYPE APPROVAL CERTIFICATE

*This certificate is issued to*

**SOCOMEK**

Benfeld - FRANCE

*for the type of product*

**SWITCHES (LOW VOLTAGE)**

SIRCOVER AC & ATyS

Manual and motorised changeover switches from 125A to 3200A

### Requirements:

Bureau Veritas Rules for the Classification of Steel Ships  
IEC 60947-1 (2014), IEC 60947-6 (2003) + A1 (2013).

EC Code: 41

*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 mentioned above.*

**This certificate will expire on: 05 Feb 2021**

**For BUREAU VERITAS,**

At BV MULHOUSE, on 05 Feb 2016,

Alain Kinnen



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 & Offshore Division available on the internet site www.veristar.com. 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.

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BV Mod. Ad.E 530 October 2014

This certificate consists of 3 page(s)

## THE SCHEDULE OF APPROVAL

### 1. PRODUCT DESCRIPTION:

Product Model or type designation:

- **ATyS & SIRCOVER AC** rating : 125A to 3200A

Product description:

- **ATyS** are motorised and automatic changeover switches.

- **SIRCOVER AC** are manual multipolar changeover switches with positive break indication.

#### 1.1 - Features SIRCOVER AC:

Name	Product Type	Number of Poles	Rated Voltage Max. (V)	Current rating (A)	Remarks
<b>SIRCOVER AC</b>	41AC3xxx	3	415	125 to 3200	Characteristics as per IEC 60947-1 & -6
	41AC4xxx	4	415		

#### 1.2 - Features ATyS:

Name	Product Type	Number of Poles	Rated Voltage Max. (V)	Current rating (A)	Remarks
<b>ATyS / ATyS r</b>	95233xxx	3	415	125 to 3200	Characteristics as per IEC 60947-1 & -6
	95234xxx	4	415		
<b>ATyS d</b>	95333xxx	3	415	125 to 3200	Characteristics as per IEC 60947-1 & -6
	95334xxx	4	415		
<b>ATyS t</b>	95433xxx	3	415	125 to 3200	Characteristics as per IEC 60947-1 & -6
	95434xxx	4	415		
<b>ATyS g</b>	95533xxx	3	415	125 to 3200	Characteristics as per IEC 60947-1 & -6
	95534xxx	4	415		
<b>ATyS p</b>	95733xxx	3	415	125 to 3200	Characteristics as per IEC 60947-1 & -6
	95734xxx	4	415		

Type

2: ATyS Remote Transfer Switch

3: ATyS d Remote Transfer Switch (RTS) - ATyS with dual power supply

4: ATyS t Automatic Transfer Switch (ATS) - ATyS d with automatic controller to manage transformer for transformer applications

5: ATyS g Automatic Transfer Switch (ATS) - ATyS t with automatic controller to manage transformer for genset application

7: ATyS p Automatic Transfer Switch (ATS) - ATyS g with functions for energy management with communication options

#### 1.2 - Firmware version - ATyS p:

- Firmware version: 1.3.0.x

### 2. DOCUMENTS AND DRAWINGS:

**Socomec:**

- DIV 15 77789\_Pages catalogue SIRCOVER\_en, dated 2015-03-16
- DIV 15 77790\_Pages catalogue ATyS\_en, dated 2015-03-16
- DIV 15 77772 - Product characteristics, dated 2015-03-16
- LST 15 77799 - BOM ATyS 125A, dated 2015-03-17
- LST 15 77798 - BOM ATyS 3200A, dated 2015-03-17
- LST 15 77796 - BOM SIRCOVER 125A, dated 2015-03-17
- LST 15 77797 - BOM SIRCOVER 3200A, dated 2015-03-17
- DIV 15 77924 - Product Plan\_ATyS et SIRCOVER AC, dated 2015-03-25
- INT 15 77792 - Manufacture Letter ATyS, dated 2015-03-16
- INT 15 77791 - Manufacture Letter SIRCOVER\_en, dated 2015-03-16
- LST 15 77793\_Manufacturer, dated 2015-03-16
- 880169D - Software documentation, dated 2014-04-29
- LST 15 77827 - List of standards, dated 2015-03-18
- DIV 15 77832\_Test program, dated 2015-03-18

**3. TEST REPORTS:****Pierre SIAT:**

- LOVAG Test report according to IEC 60947-6-1 No. H01.15.07, dated Jan 15, 2015
- LOVAG Test report according to IEC 60947-6-1 No. H01.15.08, dated Jan 15, 2015
- LOVAG Test report according to IEC 60947-6-1 No. H01.15.09, dated Jan 15, 2015
- LOVAG Test report according to IEC 60947-6-1 No. H01.15.10, dated Jan 15, 2015
- LOVAG Test report according to IEC 60947-6-1 No. H01.15.11, dated Jan 15, 2015
- Environmental test report No. TR 15212 CPR, witnessed by Bureau Veritas on Oct 5, 2015

**LCIE:**

- EMC Test report according No. 138645-679363-A Ver.01, dated Dec 18, 2015
- EMC Test report according No. 138645-679363-B Ver.01, dated Dec 18, 2015

**4. APPLICATION / LIMITATION:**

- 4.1 - BUREAU VERITAS Rules and Regulations for the Classification of Steel Ships.
- 4.2 - Approval valid for ships intended to be granted with the following additional class notations: **AUT-UMS, AUT-CCS, AUT-PORT and AUT-IMS.**
- 4.3 - BUREAU VERITAS Environmental Category, **EC Code: 41**
- 4.4 - The equipment fulfils the EMC requirements for installation in General Power Distribution Zone.
- 4.5 - As per requirements of Regulations stated on front page of the Certificate.

**5. PRODUCTION SURVEY REQUIREMENTS:**

- 5.1 - The above products are to be supplied by **SOCOME S.A** in compliance with the type described in this certificate.
- 5.2 - This type of product is within the category HBV of Bureau Veritas Rule Note NR320.
- 5.3 - **SOCOME S.A** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products:

**SOCOME S.A**  
**1 Rue de Westhouse,**  
**B.P. 10**  
**F-67230 Benfeld**  
**FRANCE**

**SOCOME**  
**Naassan (Timelec)**  
**ZI Chebedda - Route de Fouchana Naassen**  
**1135 - NAASSAN BEN AROUS**  
**TUNISIE**

**6. MARKING OF PRODUCT:**

According to IEC 60947 specifications.

**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 Switch Disconnectors at any time and that **SOCOME S.A - France** will accept full responsibility for informing shipbuilders or their sub-contractors of the proper methods of use and general maintenance of the Equipment and the conditions of this approval.

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