



Marine & Offshore
Division

Certificate number: 04071/F0 BV

File number: AP 1744

Product code: 2617H

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

SELCO

Roskilde - DENMARK

for the type of product

SIGNALING AND CONTROL DEVICES

OVER and UNDER VOLTAGE RELAY T3100

Requirements:

BV Rules for the Classification of Steel Ships.

EC Code: 31.

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: 09 Jan 2022

For BUREAU VERITAS,

At BV FREDERICIA, on 09 Jan 2017,

Jesper Jensen



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.

The electronic version is available at: <http://www.veristarnb.com/veristarnb/jsp/viewPublicPdfTypepec.jsp?id=vybl274wuuj>

BV Mod. Ad.E 530 October 2014

This certificate consists of 2 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION:

The **T3000** series are voltage relay intended for voltage monitoring.

Over voltage:	100-120%	Hysteresis 1-10%
Time delay:	1-10 sec	
Under voltage:	80-100%	
Time delay:	1 -10 sec	

2. DOCUMENTS AND DRAWINGS:

For F0 version:

T3100 data sheet ref. T3195-62E, dated 26.jun.2006.

3. TEST REPORTS:

DELTA Test Report N°DANAK-1911045 dated 10/Sep./2010.

4. APPLICATION / LIMITATION:

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

4.2 - 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.

4.3 - Approval valid for ships intended to be granted with the following additional class notations: **AUT-UMS, AUT-CCS, AUT-PORT and AUT-IMS.**

4.4 - BUREAU VERITAS Environmental Category, **EC Code: 31**

4.5 - The installation shall comply with the Manufacturer's recommendation described in the above-referenced documentation.

5. PRODUCTION SURVEY REQUIREMENTS:

5.1 - The **T3100** are to be supplied by **SELCO** 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 and as such does not require a BV product certificate.

5.3 - **SELCO** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products.

6. MARKING OF PRODUCT:

6.1 - Maker's name or trademark.

6.2 - Serial number of the units.

6.3 - Equipment type number or model identification under which it was type-tested.

7. OTHERS:

7.1 - It is **SELCO** responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

7.2 - This certificate supersedes the Type Approval Certificate N° 04071/E0 BV issued on 26.Nov.2010. by the Society.

*** END OF CERTIFICATE ***