



MARINE DIVISION

Certificate number: 11924/C0 BV

File number: ACE 02/003/039

Product code: 2634H

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

SCHNEIDER ELECTRIC INDUSTRIES SAS

Grenoble Cedex 09 - FRANCE

for the type of product

CONTACTORS (LOW VOLTAGE)

LC1 & LC2 TeSys range

Requirements:

BV Rules for the Classification of Steel Ships.
IEC 60947-1, IEC 60947-4-1 and IEC60947-5-1.

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: 24 Sep 2018**For BUREAU VERITAS,**

At BV LYON, on 24 Sep 2013,

Jean-Marc Cabuzel



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 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 SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION:

PRODUCT TYPE	Number of poles	Rated voltage	Rated operating current (A)	Remarks
Contactors Types: 09.. 12.. LC1-D 18.. LC2-D 25.. 32.. 38..	3 3 3 3 3 3	24 to 690V/AC 12 to 575V/DC	in AC-3 440V up to 9 12 18 25 32 38	<u>Note 1:</u> Suffix 6 (3rd digit): contactor for connection by screw clamp terminals. Suffix 3 (3rd digit): contactor for spring terminal connection. Suffix 9 (3rd digit): contactor for connection by Faston connectors.
Instantaneous auxiliary contacts: LAD-N.. LAD-C.. LAD-8N.. Time delayed auxiliary contacts: LAD-T. LAD-S. LAD-R. Accessories: LAD-6K10 LAD-4.. LAD-4BB LAD-4BBV LAD-9.. LA9-D..				<u>Note 2:</u> Above suffix 3, 6 or 9 are added to the end of the references of the auxiliary contact blocks.

2. DOCUMENTS AND DRAWINGS:

Manufacturer's catalogue dated January 2000.

Documents are filed in ACE 02/003/039.

3. TEST REPORTS:

Schneider Electric Industries test reports:

- N°s: K11-99-100A, K11-99-100B, K11-99-101A, K11-99-101B, K11-99-101C, K11-99-101D, K11-99-101E, K11-99-101F, K11-99-102A, K11-99-102B, K11-99-102C, K11-99-102D, K11-99-102E, K11-99-102F, K11-99-105, K11-99-106, K11-99-107, K11-99-108, K11-99-109, K11-99-110, K11-99-111, K11-99-112, K11-99-113, K11-99-114, K11-99-115, K11-99-116.

- N°s: 545-00, 546-00, 547-00, 548-00.

- N°s: G0010077A, G0010078A, G0010080A, GV10058B.

VDE CB Test certificates n° DE1-50103 and DE1-50105 dated 21/05/2012.

4. APPLICATION / LIMITATION:

4.1 - BV Rules for the Classification of Steel Ships.

4.2 - Approval also valid for ships to be granted with the notations: **AUT-UMS, AUT-CCS, AUT-PORT and AUT-IMS.**

5. PRODUCTION SURVEY REQUIREMENTS:

5.1 - The above products are to be supplied by **Schneider Electric Industries SAS** in accordance with the type described in this certificate and Bureau Veritas Rules for the Classification of Steel Ships.

5.2 - This type of product is within the category HBV of Bureau Veritas Rule Note NR320.

5.3 - **Schneider Electric Industries SAS** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products:

Schneider Electric Industries S.A.
ZAC Le Village
27100 Le Vaudreuil - France

Schneider Electric Industries S.A.
20, rue de la Croix Blanche- BP 15
86361 Chasseneuil du Poitou - France

6. MARKING OF PRODUCT:

- According to IEC 60947 specifications.
- Trade mark Telemecanique.

7. OTHERS:

7.1 - This approval is given on the understanding that the manufacturers **Schneider Electric Industries SAS (EYBENS - FRANCE)** will accept full responsibility for informing shipbuilders or their sub-contractors of the proper methods of fitting and general maintenance of the approved equipment and the conditions of this approval.

7.2 - This certificate supersedes the Type Approval Certificate N° 11924/B0 BV issued on 09/06/2008 by the Society.

*** END OF CERTIFICATE ***