



CERTIFICATE NUMBER 22-2232341-PDA

EFFECTIVE DATE 26-April-2022

EXPIRATION DATE 25-April-2027

ABS TECHNICAL OFFICE Genoa Engineering Department

CERTIFICATE OF

## Product Design Assessment

This is to certify that a representative of this Bureau did, at the request of

**SCHNEIDER ELECTRIC INDUSTRIES SAS**

located at

**31 RUE PIERRE MENDES FRANCE, EYBENS, GRENOBLE CEDEX  
9, France, 38050**

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

**Product** Contactor, Electrical

**Model** TeSys Model F: LC1-F115 to F800 range and accessories

This Product Design Assessment (PDA) Certificate remains valid until 25/Apr/2027 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

American Bureau of Shipping

*G. Barbini*

Giorgio Barbini, Principal Engineer

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement

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**Tier: 2 - PDA Issued**

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**Product:**            **Contactors, Electrical**  
**Model:**            **TeSys Model F: LC1-F115 to F800 range and accessories**  
**Endorsements:**

**Intended Service:**  
Control and protection of low voltage electrical equipment

**Description:**  
TeSys model F contactors 2, 3 or 4 poles, comprising of:  
Contactors LC1-F115 to LC1-F800, ac and dc coils  
Reversing contactors LC2-F115 to LC2-F265, ac and dc coils  
Control relay with ac and dc coils  
Auxiliary contact blocks and accessories LAD as per catalogue  
Suffix 2: 2 poles contactors (LC1-F400 / 500 & 630 only)  
Suffix 4: 4 poles contactors (except LC1-F800)  
Each reference is followed by 2 or 3 digits indicating the coil voltage and frequency  
a.c. supply: from 24 to 440 V, 50/60/40-400 Hz, except for LC1F115 to F225 : a.c. supply from 24 to 440 V, 50/60Hz,  
from 24 to 600 V, 40-400 Hz  
d.c. supply: from 24 to 440 V, except for LC1F115 to F330 : d.c. supply from 24 to 440-460 V

**Rating:**  
Rated Operational Current: 115 to 800 A (AC-3 at 440Vac) / 200-1600 A (AC-1)  
Utilisation category: AC1, AC3  
Rated Operational Voltage: 1000 Vac  
Rated Insulation Voltage: 1000 Vac  
Rated Impulse Withstand Voltage: 8 kV  
Frequency range: 40 - 200Hz  
Making/Breaking capacity: AC-3: 10 x I rated / 8 x I rated  
Making/Breaking capacity: AC-1: 12 x I rated/ 10 x I rated

**Service Restriction:**  
- Unit Certification is not required for this product.  
- If the manufacturer or purchaser's request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.  
- The scope of Type Approval is to comply with MSC.1/Circ.1221 dated 11 December 2006.

**Comments:**  
The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.

**Notes/Drawing/Documentation:**  
Drawing No. Catalogue No.MKTED210011EN Extract-TeSysF\_L dated October 2021  
Drawing No. LC1F115-800 CB Summary Rev.2  
CQC IECEE CB Test Certificate No.CN48364-M2 dated 09 Aug 2021 in CHINA for LC1F115-150  
STIEE Test Report No.00901-CB2019CQC-086982-M2 dated 07-07-2021 in CHINA for LC1F115-150  
CQC IECEE CB Test Certificate No.CN48454-M2 dated 09 Aug 2021 in CHINA for LC1F185-225  
STIEE Test Report No.00901-CB2019CQC-086981-M2 dated 07-07-2021 in CHINA for LC1F185-225  
CQC IECEE CB Test Certificate No.CN48439-M1 dated 09 Aug 2021 in CHINA for LC1F265-400  
STIEE Test Report No.00901-CB2019CQC-088644-M1 dated 06-07-2021 in CHINA for LC1F265-400  
CQC IECEE CB Test Certificate No.CN49024-M2 dated 09 Aug 2021 in CHINA for LC1F500  
STIEE Test Report No.00901-CB2019CQC-089498-M2 dated 06-07-2021 in CHINA for LC1F500  
CQC IECEE CB Test Certificate No.CN49825-M1 dated 09 Aug 2021 in CHINA for LC1F630-780  
STIEE Test Report No.00901-CB2019CQC-090420-M1 dated 07-07-2021 in CHINA for LC1F630-780  
CQC IECEE CB Test Certificate No.CN48455-M1-A1 dated 11 Apr 2022 in CHINA for LC1F800

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STIEE Test Report No.00901-CB2019CQC-088835-M1 dated 30-11-2021 in CHINA for LC1F800

**Terms of Validity:**

This Product Design Assessment (PDA) Certificate remains valid until 25/Apr/2027 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

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**STANDARDS**

**ABS Rules:**

2022 Rules for Marine Vessel Rules: 1-1-4/7.7, 1-1-A3, 1-1-A4, 4-8-2/9.5  
2022 Rules for Mobile Offshore Units and Structures: 1-1-4/9.7, 1-1-A2, 1-1-A3, 4-3-2/9.1.3  
2022 Facilities on Offshore Installations: 3-6/5.9.1 ii)

**National:**

NA

**International:**

IEC 60947-4-1 Ed.4.0 (2018-10)

**Government:**

NA

**EUMED:**

NA

**OTHERS:**

NA