



CERTIFICATE NUMBER
EFFECTIVE DATE
EXPIRY DATE
ABS TECHNICAL OFFICE

24-2537017-PDA
12-Apr-2024
11-Apr-2029
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: Molded Case Circuit Breaker
Model: Compact NS 630b-1600 and ComPact NS 630b-1600 with suffix N/H/L/LB for circuit-breaker and with suffix NA for switch-disconnector.
Endorsements:
Tier: 2 - PDA Issued

This Product Design Assessment (PDA) Certificate remains valid until 11/Apr/2029 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

Giorgio Barbini

Giorgio Barbini, Engineer/Consultant

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 (2010)

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Tier: 2 - PDA Issued

Product: Molded Case Circuit Breaker
Model: Compact NS 630b-1600 and ComPacT NS 630b-1600 with suffix N/H/L/LB for circuit-breaker and with suffix NA for switch-disconnector.

Endorsements:

Intended Service:

Electrical installation protection

Description:

Low voltage circuit breakers and switch-disconnectors of moulded case construction.
Compact NS630b-1600 and ComPacT NS 630b-1600 circuit-breakers are equipped with trip-unit Micrologic 2.0 / 5.0 / 6.0 ; 2.0A / 5.0A / 6.0A ; 2.0E / 5.0E / 6.0E ; 5.0P / 6.0P

Rating:

Rated service voltage Ue 690 V AC for type N/H/LB and NA
Rated service voltage Ue 525 V AC for type L
Rated insulation voltage Ui 1000 V
Rated impulse withstand voltage Uimp 8 kV
Frequency 50 - 60 Hz
Number of poles 3 - 4
Temperature Operating range - 25°C to +70°C. Derating for ambient temperature above 40°C according to manufacturer's derating table.
See attachment for details

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.
- Selection of breakers is to be done also on the basis of their breaking and making capacities, in accordance with 4-8-2/9.3 of Marine Vessels Rules, as a function of prospective short circuit current at their point of installation (see attachment).

Notes/Drawing/Documentation:

LCIE Test Certificate breaker CoC type N, FR_709297
LCIE Test Certificate breaker CoC type H, FR_709298
LCIE Test Certificate breaker CoC type L ,FR_709309
LCIE Test Certificate breaker CoC type LB, FR_709404/M1
LCIE Test Report breaker TR type LB, 2011990012 dated 2020-08-19
LCIE Test Report breaker TR type LB, 2011990012/ Amendment 1 dated 2020-08-19
LCIE Test Report breaker TR type NH ,2011990013A dated 2020-08-06
LCIE Test Report breaker TR type L, 2011990013B dated 2020-08-11
LCIE Test Certificate breaker New generation_CoC type N-H-L-LB, FR_713047
LCIE Test Report breaker TR breaker_ New generation_TR type N-H-L-LB, 2111990020 dated 2021-12-30
LCIE Test Certificate switch CoC type NA, FR_709710
LCIE Test Report switch TR type NA, 2011990009 dated 2020-08-27
LCIE Test Certificate switch_ New generation_CoC type NA, FR_709710/M1
LCIE Test Report switch_ New generation_TR type NA, 2011990009-M1 dated 2020-08-27
CNAS Test Report IACS rev7_old generation_dry heat, 2111930035 dated 2021-04-04

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CNAS EMC Test Report IACS rev7_old generation_EMC breaker partial, 2111939004 dated 2021-04-04
CNAS Test Report IACS rev7_New generation_EMC VISI TRIP + flame retardant, 2111939019 dated 2021-11-26
CNAS Test Report IACS rev7_EMC shunt/undervoltage release, 2111939005 dated 2021-04-14
CNAS Test Report IACS rev8_EMC shunt/undervoltage release, 22119E90003 dated 2022-07-06
CNAS Test Report IACS rev8_New generation_EMC breaker, 22119E90002 dated 2022-07-04
ComPacT NS630b-1600 Circuit-breaker, doc. no. GHD1189100
ComPacT NS630b-1600 Switch-disconnector, doc. no. JYT3795100

Drawing No. Impact_60947-3_Ed3_A2 vs A1

LCIE Test Report No.CB-certif-FR704989-NS630b-1600N dated 2019-02-05

LCIE Test Report No.CB-60052378-553314A-NS630b-1600N (IT-440V)dated 2006-12-12

LCIE Test Report No.CB-60052378-553314B-NS630b-1600H (IT-440V)dated 2006-12-12

LCIE Test Report No.CB-60052378-553314C-NS630b-1000L (IT-525V)-OK dated 2006-12-12

LCIE Test Report No.CB-126232-652989 NS630b-1600NA dated 2014-11-25

LCIE Test Report No.CB-certificat-FR652989-NS630b-1600NA-2014-12-02

LCIE Test Report No.CB-certif-FR704994-NS630b-1600L dated 2019-02-05

LCIE Test Report No.CB-certif-FR704995-NS630b-1600H dated 2019-02-05

LCIE Test Report No.CB-certif-FR704996-NS630b-1600LB dated 2019-02-05

LCIE Test Report No.CB-126228-652973A-NS630b-1600LB-NHL dated 2014-16-12

LCIE Test Report No.CB-126228-652973-NS630b-1600NHL dated 2014-10-09

LCIE Test Report No.CB-155657-721660-NS630b-1600NH dated 2019-01-16

LCIE Test Report No.CB-559712-NS630b-800LB (OK-IT-690V) dated 2007-10-03

LCIE Test Report No.CB-60028009-523214NS-A1-glow-wire-test dated 2007-07-17

Terms of Validity:

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STANDARDS**ABS Rules:**

2024 Rules for Conditions of Classification, 1-1-4/7.7, 1-1-A3, 1-1-A4, which covers the following:
2024 Marine Vessel Rules 4-8-3/5.3.3

2024 Rules for Conditions of Classification – Offshore Units and Structures 1-1-4/9.7, 1-1-A2, 1-1-A3, which covers the following:

2024 Mobile Offshore Unit Rules: 6-1-7/13.1

2024 Facilities on Offshore Installation Rules: 3-6/11.3.3

National:

NA

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International:

IEC 60947-2 Edition 5.1 (2019-07) in conjunction with IEC 60947-1:2007 + A1:2010 + A2:2014
IEC 60947-3 Edition 4.0 (2020-04) in conjunction with IEC 60947-1 Edition 6.0 (2020-04)

Government:

NA

EUMED:

NA

OTHERS:

IACS UR E10 Rev.9