CERTIFICATE NUMBER 22-2264297-PDA
EFFECTIVE DATE 16-June-2022
EXPIRATION DATE 15-June-2027
ABS TECHNICAL OFFICE Singapore Engineering Services

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 Com**PacT** NSXm and Com**PacT** NSXm NA

This Product Design Assessment (PDA) Certificate remains valid until 15-June-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

Vibin Chandrabose, Senior 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

SCHNEIDER ELECTRIC INDUSTRIES SAS
31 RUE PIERRE MENDES FRANCE, EYBENS
GRENOBLE CEDEX 9
France 38050
Telephone: +33 (0) 476576060
Fax: +33 (0) 476394072
Email: christophe.chabert@se.com
Web: www.se.com

Tier: 2 - PDA Issued

Product: **Molded Case Circuit Breaker**
Model: **ComPacT NSXm and ComPacT NSXm NA**
Endorsements:

Intended Service:
Marine & Offshore Application

Description:
3 and 4 pole Low Voltage Circuit Breaker and switch-disconnector

Rating:
ComPacT NSXm 16-160A @ 690V
ComPacT NSXm NA 50-100-160A @ 690V
See attachment for details

Service Restriction:
Unit Certification is not required for this product. If the manufacturer or purchaser requests an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.

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 549E0200 Ver.1.0-NSXm dated 06-06-2016
CB-certificate-FR 689125A-NSXmNA-SBMLV dated 2016-09-28
CB-certificate-FR 689125B-NSXmNA-SEIP dated 2016-09-28
CB-certificate-FR 690465A-NSXm16-160A-SBMLV dated 2016-10-14
CB-certificate-FR 690465B-NSXm-16-160A-SEIP dated 2016-10-14
CB-certificate-FR 690541-OF-SD-Gambit dated 2016-08-16
Test Report-CB-143078-689125BE-NXSmNA-SBMLV dated 2016-09-26
Test Report-CB-143078-689125BU-NSXmNA-SEIP dated 2016-09-26
Test Report-CB-143592-690462BE-NSXm16-160A-SBMLV dated 2016-10-10
Test Report-CB-143592-690462BU-NSXm16-160A-SEIP dated 2016-10-10
Test Report-CB-143692-690540-OF-SD-Gambit dated 2016-08-10
Factory Inspection Report PD CIG 023-54865-SEIP dated 2015-06-24
Factory Inspection Report PD CIG 023-SBMLV-Beijin dated 2016-03-10

------Revalidation------

Laboratoire Central des Industries Electriques Report No. 169778-758205M1 Test Report IEC 60947-2 Low-voltage switchgear and controlgear - Part 2: Circuit-breakers dated 11-04-22, Revision: -, Page: 148
Laboratoire Central des Industries Electriques Report No. 169778-758208 Test Report IEC 60947-3 Low-voltage switchgear and controlgear Part 3: Switches, disconnectors, switch-disconnectors and fuse-combination units dated 01-03-22, Revision: -, Page: 76
Laboratoire Central des Industries Electriques Report No. 1711990010 Test Report IEC 60947-5-1 Part 5: Control circuit devices and switching elements Electromechanical control circuit devices dated 01-06-17, Revision: -, Page: 18
Drawing No. FR_690541/M1, CB Certificate, Revision: -, Pages:2
Drawing No. FR_714517, CB Certificate, Revision: -, Pages: 5
Drawing No. FR_714712, CB Certificate, Revision: -, Pages: 4
Drawing No. No Number 1, Factory Inspection report / CHINA SBLV, Revision: -, Pages: 26
Drawing No. No Number 2, Factory Inspection report / POLAND SEIP, Revision: -, Pages: 29
Drawing No. LVPED221001EN, Catalogue, Revision: -, Pages: 91

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Tier: 2 - PDA Issued

Terms of Validity:
This Product Design Assessment (PDA) Certificate remains valid until 15/Jun/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.

STANDARDS

ABS Rules:
2022 Rules for Conditions of Classification 1-1-4/7.7, 1-1-A3 and A4, which covers the following:
2022 Marine Vessel Rules: 4-1-1/Table 3, 4-8-3/5.3.3

2022 Rules for Conditions of Classification - Offshore Units and Structures 1-1-4/9.7, 1-1-A2 and A3, which covers the following:
2022 Mobile Offshore Units Rules: 6-1-7/13.1
2022 Facilities on Offshore Installations: 3-6/11.3.3

2022 Rules for Conditions of Classification - Light and High Speed Craft 1-1-4/11.9, 1-1-A2 and A3, which covers the following:
2022 Rules for Building and Classing High Speed Crafts: 4-6-4/11.1

National:
NA

International:
IEC 60947-2 Ed. 5.0 b:2016 + Amd.1 Ed. 5.0 b:2019 Low-voltage switchgear and controlgear - Part 2: Circuit-breakers, published 08-Jul-2019
IEC 60947-3 Ed. 4.0 b:2020 Low-voltage switchgear and controlgear - Part 3: Switches, disconnectors, switch-disconnectors and fuse-combination units, published 22-Apr-2020

Government:
NA

EUMED:
NA

OTHERS:
NA

PDA CERTIFICATE NO.: 22-2264297-PDA
REVISION: 0
ISSUE DATE: 16 JUNE 2022
EXPIRE DATE: 15 JUNE 2027
COMPANY: SCHNEIDER ELECTRIC INDUSTRIES SAS
PRODUCT: MOLDED CASE CIRCUIT BREAKER
MODEL: Com**PacT** NSXm and Com**PacT** NSXm NA

NSXm short circuit performances

NSXm Types	Ue (V)	Up to 63A		80 to 160A	
		Icu (kA)	Ics (kA)	Icu (kA)	Ics (kA)
E	220/240 380/415 440 500	25 16 10 8	100%	25 16 10 -	100%
B	220/240 380/415 440 500	50 25 20 10	100%	50 25 20 -	100%
F	220/240 380/415 440 500 525	85 36 35 15 10	85 36 30 10 10	85 36 35 - -	85 36 30 - -
N	220/240 380/415 440 500 525 660/690	90 50 50 25 15 10	90 50 50 25 15 2,5	90 50 50 - - -	100%
H	220/240 380/415 440 500 525 660/690	100 70 65 30 22 10	100 70 65 30 22 2,5	100 70 65 - - -	100%

NSXm NA Electrical performances

NSXmNA Types		NSXm50NA	NSXm100NA	NSXm160NA
	Ue(V)	Ie for AC22A/AC23A		
Operational current (A)	220/240	50/50	100/100	160/100
	380/415	50/50	100/100	160/100
	440/480	50/50	100/100	160/100
	500/525	50/50	100/100	160/100
	600/690	50/50	100/100	160/100
Short-circuit making capacity (kApeak)	Icm switch alone	1,28	2,13	2,13
	Icm with upsteam protection	150	150	150
Rated short time withstand current (Arms)	Icw for 3s	900	1500	1500