



EUROPEAN UNION RECOGNISED ORGANISATION (EU RO) MUTUAL RECOGNITION TYPE APPROVAL CERTIFICATE

Certificate No:
MRE000001B

In accordance with Article 10.1 of EU Regulation 391/2009

This Certificate is issued to

Schneider Electric Industries S.A.S.
Grenoble, France

for

Circuit Breakers

with type designation(s)

ComPact NS630b - 1600, ComPacT NS630b - 1600

The product is found to comply with

EU RO Mutual Recognition Technical Requirements for Circuit Breakers

Intended service

Circuit breaker for use onboard ship and offshore platforms.

Type	Rated Voltage (V)	Rated Current (A)	Frequency (Hz)
ComPact NS630b - 1600	Up to 690	630 - 1600	50 / 60
ComPacT NS630b - 1600	up to 690	630 - 1600	50 / 60

This is to certify:

that the Product referred to herein has been inspected for the Manufacturer, pursuant to the relevant requirements of the European Union Recognised Organisation Mutual Recognition procedure, required by Article 10.1 of EU Regulation 391/2009, and has been found in accordance with those requirements.

This Certificate is valid until **2028-01-24**.

Issued at **Høvik** on **2023-01-25**

DNV local unit: **France CMC**

Approval Engineer: **Nicolay Horn**

for **DNV**

Frederik Tore Elter
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Product description

Circuit breaker and switch disconnector Compact / ComPact NS 630b - 1600 A manually operated
 Compact / ComPact NS630b-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

Technical data circuit breaker:

	NS630bN	NS630bH	NS630bL	NS630bLB	
Rated insulation voltage AC (V)	1000	1000	1000	1000	
Rated operational voltage AC(V)	690	690	525	690	
Rated Current (A)	630	630	630	630	
Rated Frequency Hz	50/60	50/60	50/60	50/60	
Rated Ultimate short-circ. breaking cap. (KA) Icu	690V	30	42	-	75
	525V	40	50	100	100
	440V	50	65	130	200
	415V	50	70	150	200
	240V	85	85	150	200
Rated Service short-circ. breaking cap. (KA) Ics	690V	30	30	-	75
	525V	40	40	100	100
	440V	50	50	130	200
	415V	50	50	150	200
	240V	50	50	150	200
Rated short-time withstand cap. (KA) Icw 1 s		19.2	19.2	-	-
Utilization category		B	B	A	A

	NS800N	NS800H	NS800L	NS800LB	
Rated insulation voltage AC (V)	1000	1000	1000	1000	
Rated operational voltage AC(V)	690	690	525	690	
Rated Current (A)	800	800	800	800	
Rated Frequency Hz	50/60	50/60	50/60	50/60	
Rated Ultimate short-circ. breaking cap. (KA) Icu	690V	30	42	-	75
	525V	40	50	100	100
	440V	50	65	130	200
	415V	50	70	150	200
	240V	85	85	150	200
Rated Service short-circ. breaking cap. (KA) Ics	690V				
	525V	40	40	100	100
	440V	50	50	130	200
	415V	50	50	150	200
	240V	50	50	150	200
Rated short-time withstand cap. (KA) Icw 1 s		19.2	19.2	-	-
Utilization category		B	B	A	A

	NS1000N	NS1000H	NS1000L	
Rated insulation voltage AC (V)	1000	1000	1000	
Rated operational voltage AC(V)	690	690	525	
Rated Current (A)	1000	1000	1000	
Rated Frequency Hz	50/60	50/60	50/60	
Rated Ultimate short-circ. breaking cap. (KA) Icu	690V	30	42	-
	525V	40	50	100
	440V	50	65	130
	415V	50	70	150
	240V	85	85	150
Rated Service short-circ. breaking cap. (KA) Ics	690V	30	30	-
	525V	40	40	100
	440V	50	50	130
	415V	50	50	150
	240V	50	50	150
Rated short-time withstand cap. (KA) Icw 1 s	19.2	19.2	-	
Utilization category	B	B	A	

	NS1250N	NS1250H	NS1600N	NS1600H	
Rated insulation voltage AC (V)	1000	1000	1000	1000	
Rated operational voltage AC(V)	690	690	690	690	
Rated Current (A)	1250	1250	1600	1600	
Rated Frequency Hz	50/60	50/60	50/60	50/60	
Rated Ultimate short-circ. breaking cap. (KA) Icu	690V	30	42	30	42
	525V	40	50	40	50
	440V	50	65	50	65
	415V	50	70	50	70
	240V	85	85	85	85
Rated Service short-circ. breaking cap. (KA) Ics	690V	30	30	22	22
	525V	40	40	30	30
	440V	50	50	37	37
	415V	50	50	37	37
	240V	50	50	37	37
Rated short-time withstand cap. (KA) Icw 1 s	19.2	19.2	19.2	19.2	
Utilization category	B	B	B	B	

Technical data disconnecting switch:

	NS630bNA	NS800NA	NS1000NA	NS1250NA	NS1600NA
Rated insulation voltage AC (V)	1000	1000	1000	1000	1000
Rated operational voltage AC(V)	690	690	690	690	690
Rated Current (A)	630	800	1000	1250	1600
Rated Frequency Hz	50/60	50/60	50/60	50/60	50/60
Rated operational current (A) Ie AC 23A 690 V	630	800	1000	1250	1600
Rated short time withstand current (kA) Icw 1 s	19.2	19.2	19.2	19.2	19.2
Rated short time withstand current (kA) Icw 0,5 s	25	25	25	25	25
Short time withstand current (kA) Icm	52	52	52	52	52

Manufactured by ¹⁾

Schneider Electric Alpes
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1) See Other conditions

Type Approval documentation

Name	Number	Date
PacT series – ComPacT NS – Catalogue 2022	LVPED221008EN	2022-02-28
Test report IEC60947-3	2111990009	2020-08-27
Test report IEC60947-3 Amendment no.1	2111990009-M1	2021-11-24
Test report IEC60947-2	2111990012	2020-08-19
Test report IEC60947-2 Amendment no.1	2111990012 Amendment no.1	2020-09-23
Test report IEC60947-2	2111990013A	2020-08-06
Test report IEC60947-2	2111990013B	2020-08-11
Test report IEC60947-2	2111990021	2021-12-03
Vibration test report	F03-2005-0223-00	2005-11-30
Vibration test report	F03-2005-0224-00	2005-11-30
Inclination test report	EHL08636	2006-10-05
Climatic test report (damp-heat, cold)	F03-2005-0216-00	2005-06-08
Climatic test report (damp-heat, cold)	F03-2005-0216-01	2005-06-08
Climatic test report (damp-heat, cold)	F03-2005-0216-02	2005-06-08
Climatic test report (damp-heat, cold)	F03-2006-0531-00-E	2005-09-26
Climatic test report (dry-heat)	2111930035	2021-04-14
EMC test report (breaker)	22119E90002	2022-07-04
EMC test report (coils)	22119E90003	/2022-07-06

Marking of product

Schneider Electric – Type designation – Main data

Other Conditions

Shall be installed and tested according to Det Norske Veritas' Rules for Classification of Ships, High Speed & Light Craft and Det Norske Veritas' Offshore Standards. The manufacturer's instructions to be observed.

Suitable for use in an IT system with a capacity of 1.2 times the maximum trip current with a voltage of 690 V AC as shown in the tables in this certificate.

Note : Others Schneider-Electric Local Adaptation Centers are allowed to assembly this line of products (refer to the below declaration "ComPacT NS630b-1600_industrial organization and factory audit_2022-03-15")

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the Type approval are complied with and that no alterations are made to the product design or choice of materials.

The main elements of the assessment are:

- Inspection on factory samples, selected at random from the production line (where practicable)
- Results from Routine tests (RT) checked (if not available tests according to RT to be carried out)
- Review of type approval documentation
- Review of possible change in design, materials and performance
- Ensuring traceability between manufacturer's product type marking and Type Approval Certificate.

Assessment to be performed annually.

Generic Statement for EU RO MR Type Approval Certificate

When a product is presented with this EU RO MR Type Approval Certificate for given application, its acceptability with regards to the limitations stated in the certificate conditions defined in 1b, 1c and 1d of the applied Technical Requirement will be evaluated by the EU RO in charge of classing the ship or being in charge of the unit/system certification.

In accordance with Article 10 of Regulation (EC) No 391/2009 of the European Parliament and of the Council of 23 April 2009 "on common rules and standards for ship inspection and survey organizations", the following organizations, recognized by the EU on this date, have agreed on the technical and procedural conditions under which they will mutually recognize this certificate:

- American Bureau of Shipping (ABS);
- Bureau Veritas (BV);
- China Classification Society (CCS);
- Croatian Register of Shipping (CRS);
- DNV;
- Indian Register of Shipping (IRS);
- Korean Register (KR);
- Lloyd's Register Group Ltd. (LR);
- Nippon Kaiji Kyokai General Incorporated Foundation (ClassNK);
- Polish Register of Shipping (PRS);
- RINA Services S.p.A. (RINA);
- Russian Maritime Register of Shipping (RS).

The scheme for the mutual recognition of class certificates for materials, equipment and components laid down by Article 10(1) of Regulation (EC) No 391/2009 is only enforceable within the Union in respect of ships flying the flag of a Member State. As far as foreign vessels are concerned, the acceptance of relevant certificates remains at the discretion of relevant non-EU flag States in the exercise of their exclusive jurisdiction, notably under the United Nations Convention on the Law of the Sea (UNCLOS). (In accordance with COMMISSION IMPLEMENTING REGULATION (EU) No 1355/2014 amending Regulation (EC) No 391/2009 - recital (25)).

END OF CERTIFICATE