



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

In accordance with Article 10.1 of EU Regulation 391/2009

Certificate No:
MRE0000006
Revision No:
2

This Certificate is issued to

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

for

Circuit Breakers

with type designation(s)

ComPacT NSXm and PowerPacT B

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.

Rated Voltage (V) Up to 690

Rated Current (A) Up to 160

Frequency (Hz) 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 **2027-06-20**.

Issued at **Høvik** on **2022-11-15**

DNV local station: **France CMC**

Approval Engineer: **Nicolay Horn**

for **DNV**

Marta Alonso Pontes
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-Breakers PowerPacT B

125 A B-Frame						
	BD		BG		BJ	
Number of poles	1	2-4	1	2-4	1	2-4
Rated insulation voltage AC (V)	800	800	800	800	800	800
Rated operational voltage AC(V)	240	690	240	690	240	690
Rated Current (A)	15-125	15-125	15-125	15-125	15-125	15-125
Rated Frequency (Hz)	50-60	50-60	50-60	50-60	50-60	50-60
Rated ultimate short-circuit breaking capacity I _{cu} (kA)						
240V	25	25	65	65	65	100
415V	-	18	-	35	-	65
440V	-	18	-	35	-	65
525V	-	14	-	18	-	25
690V	-	-	-	-	-	10
Rated short-circuit service breaking capacity I _{cs} (kA)						
240V	25	25	65	65	65	100
415V	-	18	-	35	-	65
440V	-	18	-	35	-	65
525V	-	14	-	18	-	25
690V	-	-	-	-	-	2.5
Utilization category	A	A	A	A	A	A

Circuit-breakers ComPacT NSXm

NSXm up to 63 A					
	E	B	F	N	H
Number of poles	3-4	3-4	3-4	3-4	3-4
Rated insulation voltage AC (V)	800	800	800	800	800
Rated operational voltage AC(V)	690	690	690	690	690
Rated Current (A)	16-63	16-63	16-63	16-63	16-63
Rated Frequency (Hz)	50-60	50-60	50-60	50-60	50-60
Rated ultimate short-circuit breaking capacity I _{cu} (kA)					
240V	25	50	85	90	100
415V	16	25	36	50	70
440V	10	20	35	50	65
500V	8	10	15	25	30
525V	-	-	10	15	22
690V	-	-	-	10	10
Rated short-circuit service breaking capacity I _{cs} (kA)					
240V	25	50	85	90	100
415V	16	25	36	50	70
440V	10	20	30	50	65
500V	8	10	10	25	30
525V	-	-	10	15	22
690V	-	-	-	2.5	2.5
Utilization category	A	A	A	A	A

NSXm 80 to 160A					
	E	B	F	N	H
Number of poles	3-4	3-4	3-4	3-4	3-4
Rated insulation voltage AC (V)	800	800	800	800	800
Rated operational voltage AC(V)	690	690	690	690	690
Rated Current (A)	80-160	80-160	80-160	80-160	80-160
Rated Frequency (Hz)	50-60	50-60	50-60	50-60	50-60
Rated ultimate short-circuit breaking capacity Icu (kA)					
240V	25	50	85	90	100
415V	16	25	36	50	70
440V	10	20	35	50	65
500V	-	-	-	-	-
525V	-	-	-	-	-
690V	-	-	-	-	-
Rated short-circuit service breaking capacity Ics (kA)					
240V	25	50	85	90	100
415V	16	25	36	50	70
440V	10	20	30	50	65
500V	-	-	-	-	-
525V	-	-	-	-	-
690V	-	-	-	-	-
Utilization category	A	A	A	A	A

Switch disconnecter ComPact NSXm NA

	NSXm 50NA	NSXm 100NA	NSXm 160NA
Number of poles	3-4	3-4	3-4
Rated insulation voltage AC (V)	800	800	800
Rated operational voltage AC(V)	690	690	690
Rated Current (A)	50	100	160
Rated Frequency (Hz)	50-60	50-60	50-60
Rated short time withstand current Icw	0.9kA / 3s	1.5kA / 3s	1.5kA / 3s
Rated short time making capacity Icm	1.28 kA	2.13 kA	2.13 kA

Manufactured by

Circuit-Breakers ComPact NSXm and Switch-Disconnectors ComPact NSXm NA

Schneider Electric Industries Polska Sp z.o.o,
 Bukowno, Poland

Schneider (Beijin) & Low Voltage Co., Ltd.
 Beijing, China

Circuit-Breakers PowerPact B

Schneider Industrial Tlaxcala S A DE C V
 Tlaxcala Mexico

Schneider Electric USA, INC.
 Missouri, United states

Application/Limitation

Suitable for use in an IT system with a capacity of 1.2 times the maximum trip current at up to 690 V AC.

Environmental classes in accordance with IACS E10 rev.8:

Test	Standard	Description
Dry heat	IEC 60068-2-2:2007	Temperature: 70°C ± 2°C Duration: 16 hours
Damp heat	IEC 60068-2-30:2005 test Db	Temperature: 55°C Humidity: 95% Duration: 2 cycles 2 x (12 +12 hours)
Cold	IEC 60068-2-1:2007	Temperature: -25°C ± 3°C Duration: 2 hours
Vibration	IEC 60068-2-6:2007 Test Fc	2 +3 Hz to 13.2 Hz – amplitude ±1mm –0 13.2 Hz to 100 Hz – acceleration ± 0.7 g.

Type Approval documentation

Name	Number	Date
PowerPacT B Frame Catalogue	0611CT1603	2021-12
Catalog ComPacT NSX & NSXm	LVPED221001E	2021-06
LCIE CB Test Certificate	FR_ 714512	2022-04-11
LCIE CB Test Certificate	FR_ 714517	2022-04-11
LCIE CB Test Certificate	FR_ 714518	2022-04-11

Marking of product

Schneider Electric – ComPacT NSXm & PowerPacT B Circuit-Breakers – Type designation.
 Schneider Electric – ComPacT NSXm NA Switch-Disconnectors – Type designation.

Other conditions

Type tests according to: IEC 60947-2 including Annex H, vibration test, dry heat test, damp heat test, salt mist test and EMC test. Switch disconnector type tested in accordance with IEC 60947-3

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the Type approval is 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 Routines (RT) checked (if not available tests RT to be carried out).
- Review of type approval documentation.
- Review of possible change in design, materials and performance.
- Ensure traceability between manufacturer's product marking and the DNV EU MR 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 GL;
- 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



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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