



**TYPE APPROVAL CERTIFICATE**  
No. ELE413724CS

**This is to certify** that the product below is found to be in compliance with the applicable requirement of the RINA type approval system.

<i>Description</i>	<b>MOULDED CASE CIRCUIT BREAKER</b>
<i>Type</i>	<b>ComPacT NSX Series NSX100, NSX160, NSX250, Ver. B,F,N,H,S,L NSX100, NSX250 Ver. R,HB1,HB2 NSX400, NSX630 Ver. F,N,H,S,L,R,HB1,HB2</b>
<i>Applicant</i>	<b>SCHNEIDER ELECTRIC INDUSTRIES SAS 35 Rue Joseph Monier 92500 Rueil Malmaison France</b>
<i>Reference standards</i>	<b>RINA Rules for the Classification of Ships - Part C- Machinery, Systems and Fire Protection - Ch.3 , Sect. 6, Table 1; IEC 60947-2:2016 + A1:2019</b>

*Issued in* **Genoa** on **December 9, 2024**. *This Certificate is valid until* **December 9, 2029**

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**RINA Services S.p.A.**  
**Luigi Benedetti**

This certificate consists of this page and 1 enclosure

**TYPE APPROVAL CERTIFICATE**  
**No. ELE413724CS**  
**Enclosure - Page 1 of 1**  
**ComPacT NSX Series**  
**NSX100, NSX160, NSX250, Ver. B,F,N,H,S,L**  
**NSX100, NSX250 Ver. R,HB1,HB2**  
**NSX400, NSX630 Ver. F,N,H,S,L,R,HB1,HB2**

**Product description**

Moulded-case circuit-breakers type NSX equipped with thermal-magnetic trip unit or electronic trip units

**General features:**

Rated frequency: 50/60Hz  
 Rated operational voltage Ue: up to 690V AC; Selectivity Category: A  
 Insulation Voltage Ui: 800V; Rated impulse withstand voltage Uimp: 8 kV  
 Number of poles: 3P/4P  
 Suitable for insulation: yes

**NSX 100, NSX 160, NSX250 - Version B, F, N, H, S, L.**

(\*) Rated operational current (Ie) at 40°C: 16A to 250A

**NSX100 B (for NSX 160B/NSX250 B Ics=100% Icu)**

Ue(V)	Ics(kA)	Icu (kA)
220/240	40	40
380/415	25	25
440	20	20
500	7	15

**NSX100 F (for NSX 160 F/NSX250 F Ics=100% Icu)**

Ue(V)	Ics(kA)	Icu (kA)
220/240	85	85
380/415	36	36
440	35	35
500	12	25
525	11	22
660/690	4	8

**NSX100 N / NSX160 N / NSX 250 N**

Ue(V)	Ics(kA)	Icu (kA)
220/240	90	90
380/415	50	50
440	50	50
500	36	36
525	35	35
660/690	10	10

**NSX100 H / NSX160 H / NSX 250 H**

Ue(V)	Ics(kA)	Icu (kA)
220/240	100	100
380/415	70	70
440	65	65
500	50	50
525	35	35
660/690	10	10

**NSX100 S / NSX160 S / NSX 250 S**

Ue(V)	Ics(kA)	Icu (kA)
220/240	120	120
380/415	100	100
440	90	90
500	65	65
525	40	40
660/690	10	15

**NSX100 L / NSX160 L / NSX 250 L**

Ue(V)	Ics(kA)	Icu (kA)
220/240	150	150
380/415	150	150
440	130	130
500	70	70
525	50	50
660/690	10	20

**NSX 100, NSX 160, NSX250 - Version R, HB1, HB2**

(\*) Rated operational current (Ie) at 40°C; 40A to 250A

**NSX100 R / NSX 250 R**

Ue(V)	Ics(kA)	Icu (kA)
220/240	200	200
380/415	200	200
440	200	200
500	80	80
525	65	65
660/690	45	45

For the type R there is no frame 160 A. Use 250 A with lower rating trip units.

**NSX100 HB1 / NSX 250 HB1**

Ue(V)	Ics(kA)	Icu (kA)
500	85	85
525	80	80
660/690	75	75

For the type HB1 there is no frame 160 A. Use 250 A with lower rating trip units.

**NSX100 HB2 / NSX 250 HB2**

Ue(V)	Ics(kA)	Icu (kA)
500	100	100
525	100	100
660/690	100	100

For the type HB2 there is no frame 160 A. Use 250 A with lower rating trip units.

Overcurrent protective device:

With electronic trip unit *MicroLogic* 2.2, 2.2M, 5.2A, 5.2E, 6.2A, 6.2E, 6.2E-M,

or with magnetic trip unit MA

or with thermal - magnetic trip unit TMD

**NSX 400, NSX 630 - Version F, N, H, S, L.**

(\*) Rated operational current (Ie) at 40°C: 250A to 630A

**NSX400 F / NSX630F**

Ue(V)	Ics(kA)	Icu (kA)
220/240	40	40
380/415	36	36
440	30	30
500	25	25
525	10	20
660/690	10	10

**NSX400 N / NSX630 N**

Ue(V)	Ics(kA)	Icu (kA)
220/240	85	85
380/415	50	50
440	42	42
500	30	30
525	11	22
660/690	10	10

**NSX400 H / NSX630 H**

Ue(V)	Ics(kA)	Icu (kA)
220/240	100	100
380/415	70	70
440	65	65
500	50	50
525	11	35
660/690	10	20

**NSX400 S / NSX630 S**

Ue(V)	Ics(kA)	Icu (kA)
220/240	120	120
380/415	100	100
440	90	90
500	65	65
525	12	40
660/690	12	25

**NSX400 L / NSX630 L**

Ue(V)	Ics(kA)	Icu (kA)
220/240	150	150
380/415	150	150
440	130	130
500	70	70
525	12	50
660/690	12	35

**NSX 400 - Version R, HB1, HB2**

(\*) Rated operational current (Ie) at 40°C;250A to 400A

**NSX400 R;**

Ue(V)	Ics(kA)	Icu (kA)
220/240	200	200
380/415	200	200
440	200	200
500	80	80
525	65	65
660/690	45	45

**NSX400 HB1;**

Ue(V)	Ics(kA)	Icu (kA)
500	85	85
525	80	80
660/690	75	75

**NSX400 HB2;**

Ue(V)	Ics(kA)	Icu (kA)
500	100	100
525	100	100
660/690	100	100

**NSX 630 - Version R, HB1, HB2**(\*) Rated operational current (In) at 40°C: Ir 225A to 500A Ir 501A to 630A**NSX630 R Ir 225A to 500A;**

Ue(V)	Ics(kA)	Icu (kA)
220/240	200	200
380/415	200	200
440	200	200
500	80	80
525	65	65
660/690	45	45

**NSX630 HB1 Ir 225A to 500A;**

Ue(V)	Ics(kA)	Icu (kA)
500	85	85
525	80	80
660/690	75	75

**NSX630 HB2 Ir 225A to 500A;**

Ue(V)	Ics(kA)	Icu (kA)
500	100	100
525	100	100
660/690	100	100

**NSX630 R Ir 501A to 630A;**

Ue(V)	Ics(kA)	Icu (kA)
220/240	200	200
380/415	200	200
440	200	200
500	80	80
525	/	65
660/690	/	45

**NSX630 HB1 Ir 501A to 630A;**

Ue(V)	Ics(kA)	Icu (kA)
500	85	85
525	/	80
660/690	/	75

**NSX630 HB2 Ir 501A to 630A;**

Ue(V)	Ics(kA)	Icu (kA)
500	100	100
525	/	100
660/690	/	100

Overcurrent protective device:

*With electronic trip unit MicroLogic* 1.3M, 2.3, 2.3M, 5.3A, 5.3E, 6.3A, 6.3E, 6.3E-M

Note:

Ics= Rated service short circuit breaking capacity; Icu= Rated ultimate short circuit breaking capacity

Icm= Rated short circuit making capacity (\*\*)

(\*) A derating of the rated current is to be considered with an ambient temperature of 45°C according to the Catalogue ComPact NSX & NSXm, LVPED221001EN Ed. 2024

(\*\*) Icm (kA) in accordance with Standard IEC 60947-2, Tab. 2.

## Technical documents

### Data sheet:

ComPact NSX & NSXm, Catalog 2024, Molded-Case Circuit Breakers and Switch-Disconnectors from 16 to 630A-up to 690V.

### Test report F-Lab:

SPEC22AA6541\_v4 (2023/06/27), SPEC22AA6560\_v3 (2023/06/27), SPEC22AA6687\_v3 (2023/07/12), SPEC22AA0287\_v3 (2023/07/12), SPEC23AA0279\_v2 (2023/06/30), SPEC23AA0313\_v1 (2023/06/29), SPEC23AA0317\_v1 (2023/06/28), SPEC22AA6690\_v3 (2023/07/12), SPEC23AA0715\_v1 (2023/06/29), SPEC23AA0761\_v2 (2023/06/29), SPEC23AA0651\_v3 (2023/07/12), SPEC23AA0652\_v3 (2023/07/12), SPEC23AA0972\_v1 (2023/06/30), SPEC23AA4978\_v1 (2023/06/30), SPEC23AA1367\_v1 (2023/06/29), SPEC22AA6689\_v3 (2023/07/12).

### Test report L2E:

F03-2007-0856-02 (2008/04/28), F03-2007-0856-03 (2008/04/30), F03-200800129\_v2\_007 (2008/11/18), F03-2007-0759-02 (2008/04/30), F03-2007-0759-03 (2008/04/30), F03-2007-0759-04-A (2007/09/10), F03-2007-0759-05-A (2008/06/18), F03-200800129\_v2\_009 (2008/10/28), F03\_200800354\_007 (2008/11/18), F03-200700075\_v1\_004 (2008/04/22), F03-200700075\_v1\_005 (2008/04/22), F03-200700075\_v1\_019v1 (2008/10/08), F03-200700075\_v1\_020v1 (2008/10/08), F03-200700075\_v1\_018 (2008/06/05), F03-200800354\_009 (2008/10/28).

### Test report Zhejiang Fangyuan Test Group:

2111939009 (2021/12/15), 2111939010 (2021/12/15).

## Reference document

Letter ComPact\_NSX\_IACS\_E10\_RINA\_Renewal\_TAC\_V02\_20241025

TAC n° ELE314222CS

Offer n° 2024/24377

TAO-APP dated 23 August 2024

Preliminary Audit report n. 2024/CS/01/4173 (17/10/2024)

Certificate QMS No. 195538-U-A121 (10-july-2023)

Certificate QMS No. CNBJ195538-3-UK (10-july-2023)

Certificate QMS No. 195538-U\_A162 (10-july-2023)

The documents above-mentioned have been archived in the Leonardo Draw Plus portal under the project:

<https://leodrawplus.rina.org/projects/53076/detail>

## Place of Manufacturing

Location name	Address	Products manufactured
SCHNEIDER ELECTRIC INDUSTRIES POLSKA Sp z. o. o.	ul. Mostowa, 19 32-332 <b>Bukowo, Poland</b>	- ComPact NSX 100-250
SCHNEIDER ELECTRIC ALPES	Zone d'activités Alpespace Rue Isaac Newton 73800 <b>Porte-de-Savoie, France</b>	- ComPact NSX 100-250 - ComPact NSX 400-630
SCHNEIDER (BEIJING) LOW VOLTAGE CO., Ltd	No 2, Liang Shui He 2nd Street Beijing Economic Technological Development Area <b>Beijing 100176, P.R. China</b>	- ComPact NSX 100-250 - ComPact NSX 400-630

**Genoa December 9, 2024**

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